

TYM OPERATOR'S MANUAL FOR TRACTORS

(T390NEW,T400NEW,T430NEW,T450NEW)



TONG YANG MOOLSAN CO., LTD.

KUBOTA

FEDERAL AND CALIFORNIA EMISSION CONTROL SYSTEMS LIMITED WARRANTY NON-ROAD ENGINES (CI)

The U.S. Environmental Protection Agency (EPA), the California Air Resources Board (CARB), And KUBOTA Corporation are pleased to explain the Federal and California Emission Control System Warranty on your non-road engine.

In California, new 1995 and later small off-road engines must be designed, built and equipped to meet California's stringent anti-smog standards. In other states of the U.S.A., new non-road engines subject to the provisions of 40 CFR 89 subpart A must be designed, built and equipped, at the time of sale, to meet the U.S. EPA regulations for non-road engines. KUBOTA must warranty the emission control system on your engine for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your engine. This emission warranty is applicable in all states of the U.S.A. and all provinces and territories of CANADA.

Where a warrantable condition exists, KUBOTA will repair your engine at no cost to you, including diagnosis (if the diagnostic work is performed at an authorized dealer), parts and labors.

In an emergency, repairs may be performed at any engine repair facility or by the owner.

EMISSION DESIGN AND DEFECT WARRANTY COVERAGE.

The warranty period for the engine begins on the date of sale to the ultimate purchaser and continues for the period mentioned below.

The warranty period for all engines rated under 19kW, and for constant speed engines rated under 37kW with rated speeds greater than or equal to 3000 rpm, is 1500 hours of operation or two (2) years of use, whichever first occurs. For all other engines, the warranty periods are 3000 hours of operation or five (5) years of use, whichever first occurs

If any emission related part on your engine is defective, the part will be repaired or replaced by KUBOTA free of charge

OWNER'S WARRANTY RESPONSIBILITIES

- (a) As the engine owner, you are responsible for the performance of the required maintenance listed in your KUBOTA operator's manual. KUBOTA recommends that you retain all receipts covering maintenance on your engine, but KUBOTA cannot deny a warranty claim so lely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- (b) As the engine owner, you should be aware, however, that KUBOTA may deny your warranty coverage if your engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

COVERAGE

KUBOTA warrants to the ultimate purchaser and each subsequent purchaser that your engine will be designed, built and equipped, at the time of sale, to meet all applicable regulations. KUBOTA also warrants to the initial purchaser and each subsequent purchaser that your engine shall be free from defects in materials and workmanship which cause the engine to fail to conform with applicable regulations for the period mentioned above from the date of original sale

KUBOTA shall remedy warranty defects at any authorized KUBOTA engine dealer or warranty station. Any authorized work done at an authorized dealer or warranty station shall be free of charge to the owner if such work determines that a warranted part is defective. Any manufacturer approved or equivalent replacement part may be used for any warranty maintenance or repairs on emission related parts, and must be provided free of charge to the owner if the part is still under warranty. KUBOTA is liable for damages to other engine components caused by the failure of a warranted part still under warranty.

Listed below are the parts covered by the Federal and California Emission Control Systems Warranty. Some parts listed below may require scheduled maintenance and are warranted up to the first scheduled replacement point for that part. The warranted parts are:

- Fuel Injection Pump
- 2) Nozzle Assembly
- 3) Injection Pipe
- 4) Connector of Fuel Line
- 5) Fuel Pipe Assembly
- 6) Intel Manifold

- 7) Inlet Pipe
- 8) Inlet Pipe Band
- 9) Air Cleaner Element 1
- 10) Fuel Filter Element *
- 11) Turbocharger
- 12) Exhaust Manifold

"Warranty period is equivalent to manufacturer's recommended first replacement interval as stated in the applicable model's operator's manual

MAINTENANCE REQUIREMENTS

The owner is responsible for the performance of the required maintenance as defined by KUBOTA in the operator's manual.

LIMITATIONS

This Emission Control System Warranty shall not cover any of the following:

- (a) Repair or replacement required because of misuse or neglect, improper maintenance, repairs improperly performed or replacements not conforming to KUBOTA specifications that adversely affect performance and/or durability, and alteration or modifications not recommended or approved in writing by KUBOTA.
- (b) Replacement of parts and other services and adjustments necessary for required maintenance at and after the first scheduled replacement point

FOREWARD

Thank you very much for purchasing our tractor, which, we feel sure, will give you many years of troubling the service.

The introduction in this manual set out the correct manner of operating, maintaining and checking the tractor to ensure long-term durability.

Please ensure correct operation of the tractor as incorrect operation can cause substantial mechanical damage as well as cause accidents with the associated injuries.

Please note that in some cases differences can exist between this manual and your tractor due to the manualacture's policy of constant product improvement.

In the event that you strike a problem not covered by this manual please contact your nearest dealer who will assist you in resolving your problem



WARNING

CALIFORNIA Proposition 65 Warning

The Engine Exhaust from this product contains chemicals known to the state of California to cause cancer, buth defects or other reproductive harm.

WARNING SIGNS IN THIS MANUAL

The following warning signs in this manual draw additional attention to items of importance for the safe and correct operation of the tractor.

SIGN		MEANING OF THE SIGN	
A	Danger	Serious hazard with a very high level of risk of either serious injury or death	
A	Warning	Hazard or unsafe practice that can lead to severe injury or death.	
A	Cautinn	Hagerd or unsafe practice that can lead in injury or death.	
# TE	Important	Instructions for the correct operation of the machine which, if followed, will ensure that it performs at it's best	

All information, illustrations and specifications in this manual are based on latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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TRACTOR IDENTIFICATION

The engine number is stamped on the left hand side of the engine block.

The chassis number is shown on the left hand side of the tractor as shown in the drawing.

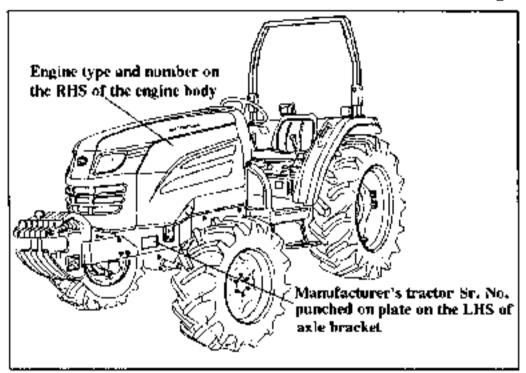


Illustration A

WARRANTY OF THE PRODUCT.

The manufacturer warrants this product and full details of the warranty are provided on a separate warranty schedule.

SERVICE.

Service is available from any TYM dealer in the country.

PARTS.

To obtain spare parts please contact your nearest dealer and give him the details listed below.

Tractor model

Tractor serial number.

Tractor engine number.

Part number and description

Quantity required.

ABOUT THIS MANUAL

This manual has been prepared to assist you in following/adopting the correct procedure for running-in operation and maintenance of your new TYM CO..ETD.(Here in after refer to TYM) Tractor.

Your fractor has been designed and built to give maximum performance, with good fuel economy and ease of operation under a wide variety of operating conditions. Prior to delivery. The tractor was carefully inspected, both at the factory and by your TYM Dealer/Distributor, to ensure that it reaches you in optimum conditions. To maintain this condition and ensure trouble free performance, it is important that the routine services, as specified in this manual, are carried out at the recommended intervals.

Read this Manual carefully and keep it in a convenient place for future reference. If at any time you require advice concerning your Tractor, do not hesitate to contact your Authorized TYM dealer/Distributor. He has trained personnel, genuine parts and necessary equipments to undertake all your service requirements.

Manufacturer's policy is one of continuous improvement, and the right to change prices, specifications or equipments at any time without notice is reserved.

All data given in this book is subject to production variations. Dimensions & weight are approximate only and the illustrations do not necessarily show Tractors in standard condition. For exact information about any particular Tractor, please consult your TYM dealer/Distributor.

Introduction & Description

TRACTOR AN <u>INTRODUCTION</u>

The word, "Tractor" has been derived from "Traction" which means pulling.

A Tractor is required to pull or had an equipment, implement or trolley which are coupled to the Tractor body through suitable linkage. A Tractor can also be used as a prime mover as it has a power outlet source which is also called Power Take or PTO shaft.

In this book the operating, maintenance and sturage instructions for all models of TYM Diesel Tractors has been complied. This material has been prepared in detail to help you in the better understanding of maintenance and efficient operation of the machine.

If you need any information not given in this manual, or require the services of a trained mechanic, please get in touch with the TYM Dealer/Distributor in your locality. Dealer/Distributors are kept informed of the latest methods of servicing Tractors. They stock genuine spare parts and are backed by the Company's full support.

Through this manual. The use of the terms LEFT, RIGHT, FRON'T and REAR must be understood, to avoid any confusion when following the introductions. The LEFT and RIGHT means left and right sides of the Tractor when facing forward in the driver's seat. Reference to the FRONT indicates the radiator end of the Tractor, while the REAR, indicates the drawbar end (illustration E)

When spare parts are required, always specify the Tractor and engine serial number when ordering these parts (See illustration A). This will facilitate faster delivery and help ensure that the correct parts for your particular Tractor is received. The tractor serial number is punched on a plate attached to the left hand side of the engine body (illust.A). For easy reference, we suggest you to write the number in the space provided in the owner's personal data.

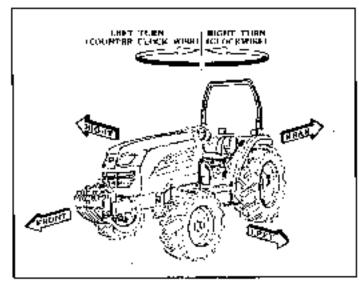


illustration E
(Front, Rear,Left.Right Portion)

DESCRIPTION

■ General construction

The transmission case. Clutch, Clutch housing, Engine and Front Axle Support are holsed together to form a rigid unit

Front Axic & Wheels

The 4WD front axie is a center-pivot, reverse Eliot type. The front wheel drive mechanism is incorporated as a part of the axie

The front wheel drive power is taken off the rear transmission and transmitted to the differential in the front axle where the power is divided into right and left and to the respective final cases.

In the final cases, the transmitted revolution is reduced by the level gears to drive the front wheel. The 4WD mechanism with level gears provides wider steering and greater durability.

Engine

The tractors are fitted with vertical. Water-cooled 4-cycle and spherical chamber type KUBOTA ENGINES(T390/T400/T430/T450)

Clutch and Transmission

A single plate dry clutch(10.24 diameter) is used on these tractors. Tractor with IPTO(Independent Power Take Off) are fitted with hydraulic Clutch Assy. The transmission Gear box has twelve forward speeds & twelve reverse speeds of T390/T400/T430/T450 and sixteen forward & sixteen reverse speeds of another T430/T450 with high-low selector lever, Presently, TYM Tractors are fitted with partial synchro mesh type gears.

■ Brakes

TYM tractors are provided with independent disc brakes operated by two road travel. A foot brake lever is fitted for parking.

Rear axle & Wheels

This is mounted on ball bearings and is enclosed in removable housing which are bolted to the transmission case. The rim & Disc fitted with Rear tires are bolted to the outer flange of Rear Axle.

■ Hydraulic system & Linkages.

TYM Tractors are fitted with Live (i.e. system is in operation even when clutch is disengaged) independent, very touch of hydraulic System. Three point Linkages can be used for category 1 type of implements.

■ Steering

it consists of Hydrostatic Power steering system, which has a hydraulic cylinder and tandem type hydraulic pump

Electrical System

A 12 Volt Lead Acid Propylene Battery is used to activate the Engine through the Starter Motor and the Electrical system comprising Florn, Head Lamp. Sale indicator Lamps. Plough Lamp, Brake Light, Gauge lamp, Hazard Lamp, Generator or Alternator, Fuse box also from part of the Electrical system.

OWNER ASSISTANCE

We at TYM CO. LTD and your TYM Dealer/Distributor wants you to be completely satisfied with your investment. Normally any problems with your equipment will be handled by your Dealer/Distributor's Service Departments, however, misunderstanding can occur. If you feel that your problem has not been handled to your satisfaction, we suggest the following.

Contact the owner or General Manager of the Dealership, explain the problem, and request assistance. When additional assistance is needed. Your Dealer/Distributor has direct access to your office. If you cannot obtain satisfaction by doing this, contact the TYM CO., LFD. Office and provide them with:

- Your name, address and telephone number
- Model and Tractor serial number.
- Dealer/Distributor Name & Address
- Machine purchase date and Hours used.
- Nature of problem.

Before contacting TYM CO LTD office, be aware that your problem will likely to be resolved in the Dealership using the Dealer's/Distributor's facilities, equipment and personnel. So it is important that your initial contact be with the Dealer/Distributor.

(ROPS) Roll Over Protective Structures

Roll Over Protective Structures (ROPS)

TYM Tractors are fitted with a frame for the protection of Operators of Tractors to minimize the possibility of serious operator injury result from accidental upset. These are called as ROPS and are characterized by providing space for the clearance zone inside the envelope of the structure or within a space bounded by a series of straight lines from the outer edge of the tractor to any part of the Tractor that might come in contact with flat ground and is capable of supporting the Tractor in that position if the Tractor overturns.

The mounting structure and fasteners forming the mounting connection with the Tractor are part of the ROPS.



Caution

Loosen and release the knub slowly and cautiously to fold down the

ROPS. If Tractor is operated with ROPS folded (E.g. to enter a low building) Drive with extreme caution and do not use seat belt. Fold the ROPS up again before the Tractor is operated under normal conditions.

Please note that in no condition. The tractor is to be operated without ROPS. Operating the tractor without ROPS, with folded ROPS with damaged ROPS or hardware can lead to fatal injuries.

(ROPS) Maintenance and inspection

The ROPS has been certified to industry and/or government standards. Any damage or alteration to the ROPS, mounting hardware or seat belt voids the certification and will reduce or eliminate protection for the operator, in the event of a roll-over.

The ROPS, mounting hardware and seat belt should be checked after the first 100 hrs of machine operation and every 500 hrs thereafter for any evidence of damage wear or cracks. In the event of damage or alteration the ROPS must be replaced prior to further operation of the machine. The seat belt most be worn during machine operation when it is equipped with a certified ROPS. Failure to do so will reduce or eliminate protection of the operate in the event of a roll-over. Substitution of mounting hardware, seat belt etc. with components not equal to or superior to the original certified components will void the certification and will reduce or eliminate protection for the operator in the event of a roll-over.

Damage of the ROPS

If the tractor has rolled over or the ROPS has damaged (such as striking an overhead object during transport). It must be replaced to provide the original protection. After an accident, check for damages to the 1.ROPS.2.Seat 3.seat belt & seat mountings. Before you operate a Tractor, replace all damaged parts.



DO NOT WELD, DRILL OR STRAIGHTEN THE ROPS



Warning

Never attach chains, ropes to the ROPS for pulling purposes; this will cause the Tractor to tip backwards. Always pull from the Tractor drawbar. Be careful when driving through door opening or under law overhead objects. Make sure there is sufficient overhead clearance for the ROPS fatal injuries



Warning

If the ROPS is removed or replaced, make certain that the proper hardware is used to replace the ROPS and the recommended torque values are applied to the attaching bolts.



Warning

Always wear your seat belt if the tractor is equipped with ROPS

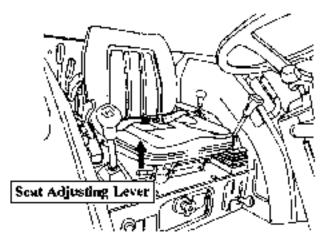


Fig.1

NOTE. Do not use solvents to clean the seat. Use warm water with a little detergent added.

Before operating a Tractor it is important to adjust the seat to the most comfortable position & check whether it is properly locked in its position. Figure 1 identifies the seat fitted to your Tractor.

FOR Sliding seat

To select Scat position, move Adjusting lever and slide Seat closer to or away from Dash panel and controls.



Danger

Check whether the scat properly locked in its position before driving the tractor



Danger 1

Always use the seat helt when the ROPS is installed. Do not use the seat belt if a totdable ROPS is down or there is no ROPS. Check the seat belt regularly and replace if frayed or damaged.

SAFETY INSTRUCTIONS

RECOGNIZE SAFETY INFORMATION

This symbol means ATTENTION! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about safety. Carefully read the message



SIGNAL WORDS.

A signal word—DANGER, WARNING OR CAUTION is used with safety alert symbol. DANGER identifies the most serious hozards. Safety signs with signal Word—DANGER OR WARNING—are typically near specific hazards. General precautions are listed on CAUTION safety signs.



DANGER



WARNING

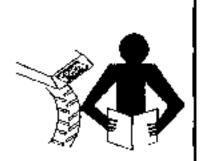


CAUTION

READ SAFETY INSTRUCTION

Carefully read all safety instructions given in this manual for your safety. Tempering with any of the safety devices can cause serious injuries or death. Keep all safety signs in good condition. Replace missing or damaged safety signs. Keep your tractor in proper condition and do not allow any

unauthorized modifications to be carried out on the Tractor, which may impair the function/safety and affect Tractor life.



PROTECTION CHILDREN

Keep children and others away from the Tractor while operating

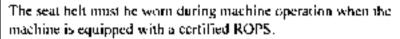
BEFORE YOU REVERSE.

- Look behind Tractor for children,
- Do not let children to ride on Tractor or any implement.

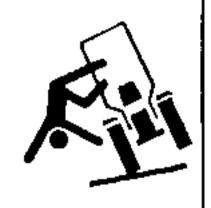


USE OF ROPS AND SEAT BELT.

The Roll Over Protective Structure(ROPS) has been certified to industry and/or government standards. Any damage or alternation to the ROPS, mounting hard-ware, or seat helt voids the certification and will reduce or eliminate protection for the operator in the event of a roll-over. The ROPS, mounting hardware, and seat best should be checked after the first 100 hours of Tractor and every 500 hours thereafter for any evidence of damage, wear or cracks. In the event of damage or alteration, the ROPS must be replaced prior to further operation of the Tractor.



hailure to do so will reduce or eliminate protection for the operator in the event of a roll over.



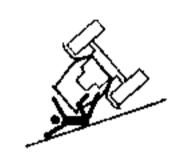
PRECAUTION TO AVOID TIPPING

Do not drive where the Tractor could slip or tip

Stay alert for holes and racks in the terrain, and other hidden hazards

Slow down before you make a sharp turn.

Driving forward out of a ditch or mired condition could cause Tractor to tip over backward. Back out of these situations if possible



PARK TRACTOR SAFELY

Before working on the Tractor,

Lower all equipment to the ground

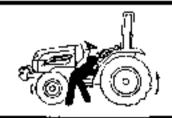
Stop the engine and remove the key



KEEP RIDERS OFF TRACTOR

Do not allow riders on the Tractor.

Riders on Tractor are subject to injury such as being stuck by foreign objects and being throws off of the Tractor



HANDLE FUEL SAFELY-AVOID FIRES

Handle fael with care; it is highly flatomable. Do not refuel the Tractor while smoking or near open flame or sparks.

Always stop engine before refueling Tractors.

Always keep your tractor clean of accumulated grease, and debris. Always clean up spilled fuel.



STAY CLEAR OF ROTATING SHAFTS

Entanglement in rosating shaft can cause serious injury or death.

Keep PTO shield in place at all times

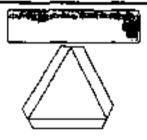
Wear close fitting clothing. Stop the engine and he sure PTO drive is stopped before making adjustments, connections, or cleaning out PTO driven equipment.



ALWAYS USE SAFETY LIGHTS AND DEVICES.

Use of hazard warning lights and turn signals are recommended when towing equipment on public roads onless prohibited by state or local regulations.

Use slow moving vehicle (SMV) sign when driving on public roadduring both day & night time, unless prohibited by law



PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work.

Keep the surrounding area of the Tractor clean and dry.

Do not attempt to service Tractor when it is in motion.

Keep body and clothing away from retating shafts.

Always lower equipment to the ground. Stop the engine.

Remove the key. Allow Tractor to cool before any work repair is caused on it.

Securely support any Tractor elements that must be raised for service work

Keep all parts in good condition and properly installed.

Replace worn or broken parts. Replace damage/missing decals.

Remove any buildup of grease or oil from the Tractor.

Disconnect battery ground cablet—) before making adjustments enelectrical systems or welding on Tractor



AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Keep hunds and body away from pinholes and nozzles, which eject fluids under high pressure. If ANY fluid is injected into the skin. Consult your doctor immediately.



PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode

Never check battery charge by placing a metal object across the poles.



PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, cause holes in clothing and cause blindness if found entry

into eves.

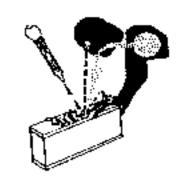
For adequate safety always.

- LFill hatteries in a well-ventilated area.
- 2. Wear eve protection and acid proof hand gloves
- 3. Avoid breathing direct fumes when electrolyte is added.
- Do not add water to electrolyte as it may splash off causing severe burns.



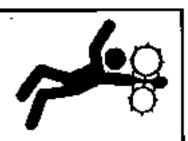
- LiFlash your skin with water.
- 2.Flush your eyes with water for 10-15 minutes.

Get medical attention immediately.



SERVICE TRACTOR SAFELY

Do not wear a necktie, scarf or loose clothing when you work near moving parts. If these items were to ger caught, severe injury could result. Remove rings and other jeweler to prevent electrical shorts and entanglement in moving parts.



WORK IN VENTILATED AREA

Do not start the Tractor in an enclosed building unless the doors & windows are open for proper ventilation, as tractor fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area remove the exhaust fumes by connecting exhaust pipe extension.



TRACTOR RUNAWAY

- 1. The tractor can start even if the transmission is engaged position causing Tractor to runaway and serious injury to the people standing nearby the tractor.
- For additional safety keep the pull to stop knob (fuel shut off control) in fully pulled out position. Transmission in neutral position. Foot brake engaged and PTO lever in disengaged position while aftending to Safety Starter Switch or any other work on Tractor.

SAFETY STARTER SWITCH

- Clutch operated safety switch is provided on all Tractors which allow the starting system to become operational only when the Clutch pedal is fully pressed.
- Do not By-pass this safety statter switch or work on it. Only Authorized Dealers are recommended to work on safety starter switch.
- On some models Safety Starter switch is provided on transmission High-low shifter lever and in. PTO shifter level. The tractor can be started only if High-low shifter level is in neutral position.



Safety Starter Switch is to be replaced after every 2000 hours/4 years. whichever is earlier.

SAFE OPERATION OF YOUR TRACTOR

The manufacturer of your tractor has made every effort to make it as safe as is humanly possible.

Heyond this point it is the responsibility of the upcrator to avoid accidents and we ask that you read and implement our suggestions for your safety.

Ensure that only trained and competent operators use this tractor and ensure that they are fully conversant with the machine and aware of all it's control and safety features

Operators should not operate the tractor or associated machinery while tited or untrained.

To avoid accidents please ensure that the operator wears clothing which will not get entangled in the moving parts of the tractor or machine and protect him or her from the elements.

When spraying or using chemicals, please ensure that clothing and protective equipment is worn which prevents respiratory or skin problems.

For full details consult the manufacturer of the chemicals

To avoid lengthy exposure to noise ensure that car protection is worn.

If adjustment to the tractor or machinery need to be made ensure the tractor or machine are turned off beforehand.

Use of certified Roll Over Protection Structure (ROPS) is a most while operating a tractor.

Use of seat belt is a must while operating a tractor.

In summary, ensure at all times that the safety of the operator and any other worker is paramount.

SAFETY TIPS DURING MAINTENANCE

- At least on a daily basis check all oil levels. Water level in the radiator and electrolyte level in the battery and perform services according to the service schedule.
- Ensure tire pressure are even and the correct pressure for the job being done is maintained.
- Check to ensure that the all controls and preventative mechanisms of the Tractor and implement work correctly and effectively.
- 4. Ensure that an adequate set of the correct tools is available for maintenance and minor repairs.
- Ensure that all service work and repairs are carried out on a flat area with a concrete or similar
 floor.

Do not carry out service work on a tractor until it is switched off, and the parking brake applied and wheels choked.

Where a tractor is started in a confined area, ensure that the area is well ventilated as exhaust pases are very harmful, and can cause death.

- 6. Do not work under raised implements
- 7 When changing wheels or tires ensure that a suitable wheel stand is placed under the axle prior to removing the wheel and the wheels are chacked.
- 8. Where guards or shields need to be removed to perform a service or repair, ensure that the guard or shield is correctly reinstalled before starting the Tractor.
- Never refuel near a naked flame or with an overheated engine. Ensure to turn off fingine before refueling.
- 10. The cooling system operates under pressure, take care when removing the Radiator cap on a hot engine to prevent being scalded by sream or hot water. Do not add water in the radiator when the engine is hot. Add water to the radiator only after the engine cools down completely.
- 11.To prevent fires keep the tractor including the engine clean and free from inflammable material and well away from fuels and other inflammable material.

MOUNTING AND DEMOUNTING IMPLEMENTS.

- (1)Ensure that all mounting and removal of implements is done on safe flat ground. Ensure no one is between the Tractor and implement and do not get under the implement to avoid accidental injuries.
- (2) After mounting the implement, ensure that all sway chains are correctly adjusted and, where PTO shafts are used that the shaft is fitted and secured correctly.
- (3) Where heavy implements are used, ensure that the combination is well halanced or use proper hallast to achieve halance.
- (4) Before leaving the tractor at any time, lower the implement, stop the PTO shaft where applicable, set the parking brake and switch off the engine.
- (5) While operating the implements with the PTO keep all bystanders away from any moving parts and do not attempt to make adjustments while the machine is running.
- (6) Only the driver should ride on the Tractor with the ROPS frame fitted and with the seat belt properly fastened.
- (7) Where young children are present, particular care should be taken and the tractor should not be moved until the whereabouts of all children is known.
- (8) Only trained operators should operate the Tractor and so taking care to ensure that other workers are not injured. In particular they should take care during dusty operations, which will reduce visibility substantially.
- (9) Never start the tractor unless the transmission is out of gear, the operator is in the seat and all round safety has been checked.
- (10) Only operate the tractor seated in the drivers seat and never turn or brake suddenly at high-speed as this can cause a roll-over and serious injury or death.
- (11) When traveling on a public road ensure that the tractor and driver both meet all laws relating to safety and licensing. When traveling with wide implements use red flags on the extremities and observe all legal including escort requirements.
- (12) When operating under adverse conditions, hilly terrain or on bad ground adjust the speed of the tractor to suit the conditions, safety comes first. Never drive down hall at high speed or with the transmission in neutral. Use of the braking capacity of the engine as well as the service brakes. Do not try to change gear going up or down a steep slope, select the correct gear before starting.
- (33) Take care when traveling uphall with a heavy implement to ensure that it does not overhalance and tip up the front end.
- (44) Never remove or modify the seat belt.
- (15) Nover temove, modify or repair the ROPS frame

PLEASE REMEMBER THAT A LITTLE BIT OF EXTRA CARE CAN PREVENT SERIOUS INJURY OR TEATH AND AVOID DAMAGE TO YOUR TRACTOR.

The following precautions are suggested to help prevent accidents.

A careful operator is the best operator. Most accidents can be avoided by observing contain precautions. Read and take the following precautions before operating the Tractor to prevent accidents. Tractor should be operated only by those who are responsible and properly trained to do so.

The Tractor

- Read the operator's manual carefully before using the tractor. Lack of operating knowledge can lead to accidents
- 2 Use an approved rollover har and seat belt for safe operation. Overturning of a tractor without a rollover bar can result in death or injury.
- 3. Do not remove ROPS (Roll Over Protective Structure). Always use the seat belt
- 4. Fiberglass canopy does not give any projection.
- 5. To prevent falls, keep steps and platform clear of mud and oil.
- Do not permit anyone but the operator to ride on the Tractor. There is no safety place for extrariders.
- Replace all missing, idegible or damaged safety signs.
- 8. Keep safety signs clean of dirt and grease.

servicing the Tractor

- Lkeep the tractor in good operating condition for your safety. An emproperly maintained Tractor can be hazardous
- Stop the engine before performing any service on the tractor.
- 3. The cooling system operates under pressure, which is controlled by the radiator cap. It is dangerous to remove the cap while the system is hot. First turn the cap slowly to stop and allow the pressure to escape before removing the cap entirely.
- 4. Do not smake while the refueling the tractor. Keep away any type of open flame.
- 5. The fuel in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle or any part of the fuel injection system.
 - Failure to follow these instructions can result in serious injury.
- Keep open flame away from battery or cold weather starting aids to prevent fire or explosions.
- Do not modify or after or permit anyone else to modify or after this tractor or any of its components or any tractor functions

Operating the tructor

- Before starting the tractor apply the parking brake, place the PTO (Power Take Off) lever in the "OFF" position, the hydraulic control levers in the downward position, the remote control valve levers in the neutral position(if fixed) and the transmission in neutral.
- Do not start the engine or controls while standing besides the tractor. Always sit on the tractor seat when the engine or operating controls.
- Safety starter switch.

In order to prevent the accidental starting of the tractor, a safety switch has been provided. The starting system of the tractor is connected through this switch, which becomes operative only when the clutch pedal is depressed. On some models shuttle shifter lever and PTO button should also be inneutral position for completing the starting circuit. Do not bypass the safety starter switch. Consult your TYM Tractor Dealer/Distributor if safety-starting switch malfunctions.

- Avoid accidental contact with the gear shifter lever while the engine is running. Unexpected
 Tractor movement can result from such contact.
- 5. Do not get off or climb the tractur while it is in motion.
- 6. Shut off the engine, remove the key and apply the parking brake before getting off the tractor
- 7. Do not operate the tractor in an enclosed building without adequate ventilation. Exhaust fornes can cause death.
- 8. Do not park the tractor on a steep slope.
- 9. If power steering or Engine seizes to operate, stop the tractor immediately.
- (b) Pull only from the swinging draw har or the lower link drawbar in the down position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axic carriers or any point above the rear axic may cause the Tractor's front end to lift.
- 13. If the front end of the tractor tends to rise when heavy implements are attached to the three-point linkage, install front end or front wheel weights. Do not operate the tractor with a light front end.
- 12. Always use hydraulic position control lever when attaching equipments/implement and when transporting equipment. Be sure that the hydraulic couplers are properly mounted and will disconnect sately in case of accidental detachment of implement.
- 13.Do not leave equipment/implement in the raised position.
- 14.Use the flasher/ Turn signal lights and Slow Moving Vehicle (SMV) signs when driving on public roads during both day and night time, unless prohibited by law.
- 15. Dim tractor lights when meeting a vehicle at night. Be sure the lights are adjusted to prevent the blinding on the eyes of coming vehicle operator.
- 16. Emergency stopping instruction: If tractor fails to stop even after application of brakes, Pull the kneb of fuel shut off control rad.

Driving the tractor

- Watch where you are going especially at row ends, on roads, around trees and low hanging obstacles.
- To avoid upsets, drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, crossing ditches or slopes, and when turning at corners.
- Lock the tractor brake pedals together when transporting on roads to provide proper wheel braking-
- Keep the tractor in the same gear when going downhill as used when going uphill. Do not coast
 or free wheel down hifls.
- Any towed vehicle and/or trailer whose total weight exceeds that of the towing Tractor, must be equipped with its own brakes for safe operation.
- 6. When the tractor is stuck or tires are frozen to the ground, back out to prevent upset.
- Always check overhead clearance, especially when transporting the tractor.

Operating the PTO (Power Take Off).

- When operating PTO driven equipment, shut off the engine and wait until the PTO stops before getting off the tractor and disconnecting the equipment
- 2. Do not wear loose clothing when operating the power take-off or near rotating equipment,
- When operating stationery PTO driven equipment, always apply the tractor parking brake and bluck the rear wheels from from and rear side.
- 4 To avoid injury, always move down flip part of PTO. Do not clean, adjust or service PTO driven equipment when the tractor engine is running.
- 5. Make sure the PTO master shield is installed at all times and always replace the PTO shield cap. When the PTO is not in use.

Diesel fuel

- Keep the equipment clean and properly maintained.
- Under no circumstances should gasoline, alcohol or blended fuels be added to diesel fire or explosive hazard. Such blends are more explosive than pure gasoline. In a closed container, such as a fuel tank, DO NOT USE THESE BLENDS.
- 3. Never remove the fuel cap or refuel the tractor with the engine running,
- 4. Do not smake while refueling or when standing near fuel.
- Maintain control of the fuel filler pipe when filling the tank.
- 6. Do not fill the fuel tank to capacity. Allow room for expansion.

- 7. Wipe up spilled fuel immediately.
- 8. Always tighten the fuel cap securely.
- 9.If the original fuel tank cap is lost, replace it with genuine cap. A none approved cap may not be safe.
- 10.Do not drive equipment near open fire.
- [1] Never use fuel for cleaning purpose.
- (2. Arrange fuel purchases so that winter grade fuel are not held over and used in the spring.

N.B: It is suggested that after repairs if any of the Safety Decal/sign is peeled/defaced, the same may be replaced immediately in interest of your safety.

DO'S AND DON'T'S

DO'S-For Better performance

- DO-Ensure that safety shields are in place and in good condition.
- DO-Read all operating instructions before commencing to operate Tractor.
- **DO-**Carry out all maintenance tasks without fail.
- DO-Keep the air cleaner clean.
- DO -Ensure that the correct grade of lubricating oils is used and that they are replenished and changed at the recommended intervals.
- DO-1 it new sealing rings when the filter elements are changed.
- DO-Watch the oil pressure gauge or warning light and investigate any abnormality immediately
- DO-Keep the radiator filled with clean water and in cold weather use anti-freeze mixture. Drain the system only in an emergency and fill before starting the engine.
- DO-Ensure that the transmission is in neutral before starting the engine.
- DO-Keep all fuel in clean storage and use a filter when filling the tank.
- DO-Attend to minor adjustments and repairs as soon as necessity is apparent.
- **DO**-Allow the engine to cool before removing the radiator filler cap and adding water, remove the radiator cap slowly.
- DO-Shift into low gear when driving down steeps hills.
- DO-Latch the brake pedals together when driving on a highway.
- DO-Keep draft control lever fully down when not in use.

Don'ts-For safe operation

- DON'T-Run the engine with the air cleaner disconnected
- **DON'T-Start the tractor in an enclosed building unless the doors and windows are open for proper**sentilation
- DON'T-Operate the tractor or engine while lubricating or cleaning
- **DON'T**-Allow the tractor to run out of diesel fuel otherwise it will be necessary to vent the system.
- **DON'T**-Temper the fuel injection pump. If seal is broken the warranty becomes void.
- **DON'T-Allow** the engine to run idle for a long period.
- DON'T-Run the engine if it is not firing on all cylinders.
- DON'T-Ride the brake or clutch pedal. This will result in excessive wear of the brake lining, clutch driven member and clutch release bearing.



DON'T-Use the independent brakes for making turns on the highway or at high speeds.

DON'T-Refuel the tractor with the engine running.

BON'T-Mount or dismount from the right side of the tractor.

DON'T-Temper the hydraulic control levers' upper limit stops.

DON'T-Use draft control lever for lifting of implements.

DON'T-Start the engine with the PTO engaged.

DON'T-Use the governor Control Lever (Hand throttle) while driving on roads.

DON'T-Move the hydraulic levers rearward.

SAFETY SIGNS

(Replace all missing, damaged or illegible signs)

GENERAL SAFETY INFORMATION

IMPORTANT: This "General safety Information" should be kept with the machine at all times as reference data.



This symbol means ATTENTION! YOUR SAFETY IS INVOLVED.

The message that follows the symbol contains important information about safety. Follow recommended precautions and safe operating practice.



WARNING

- Before starting and operating know the operating and safety instructions in the operators Manual and on the tractor
- Clear the area of bystanders.
- Uscate and know operation of the controls.
- Start the engine only from Operator's seat with depressed clutch pedal, transmission in the neutral, PTO disengaged and hydraulic control in lower position
- Slow down on turns, rough ground and slopes to avoid rollovers.

- Do not permit anyone but the operator to ride on the tractor. There is no safe place for rider.
- Lock brakes together, use warning lights and SMV emblem while driving on roads.
- Lower equipment, place gear shift levers in neutral, stop engine, remove the key and apply parking broke before teaving the tractor seat.
- Air pressures are specified by the manufacturer in the tires

FAILURE TO FOLLOW ANY OF THE INSTRUCTIONS ABOVE CAN CAUSE SERIOUS. INJURY TO THE OPERATOR.

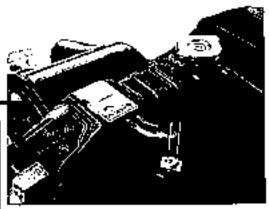


Location: On Radiator shroud

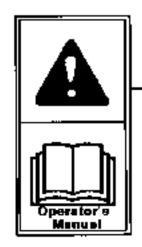
side LH&RH

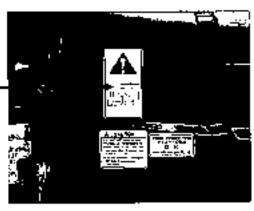
Part No. 1200-910-012-0





Location: On Radiator Part No.: 1200-910-015-0





Location: On cover control Part No.: 1200-910-023-0



CAUTION

TO PROTECT ENGINE AND HYDRAULIC COMPONENTS.

- Idle engine for 1 minute. before shut down for full load. operation.
- Do not exceed 1/2 throttle for first 5 minutes of operation.

Lucation: On Dash cover side RH

Part No.: 1260-904-064-0



DANGER

Rotating driveline contact can cause Death

KEEP AWAY!

Keep all drive line.

Tractor and equipment shields in place during operation

Location: On PTO Guard Part No : 1200-910-013-0



DANGER

BLINDNESS CAN RESULT FROM BATTERY EXPLOSION.
KEEP SPARKS OR OPEN FRAMES AWAY FROM BATTERY.
DO NOT JUMP START.
BURNS CAN RESULT FROM BATTERY ACID.
IN CASE OF CONTACT FUISH IMMEDIATELY WITH WATER.

Location: On the front view of battery.

part No.: 1260-904-066-0



WARNING

- Pull only from drawbar. Pulling from any other point can cause rear overturn.
- Do not operate with unshielded PTO.
- Disengage PTO and stop engine before servicing tractor or attaching and detaching implements
- ◆ When towing equipment use a Safety chain FAILURE TO FOLLOW ANY OF THE INSTRUCTIONS ABOVE CAN CAUSE SERIOUS INJURY TO THE OPERATOR OR OTHER PERSONS.

Location: On rear frame Part No.: 1260-904-065-0A



WARNING

- Start engine only from operators seat.
 If safety start switch is bypassed engine can start with transmission in gear.
- Do not connect or short across terminal on starter solenoid.
- Attach booster cables as shown on battery decat and operators manual.

Starting in gear causing runaway can result in serious injury.

Location: On dash cover side LH Part no: 1260- 904-062-0A

Location: On dash panel near clutch pedal

Part No.: 1260-904-068-0

FRONT TYRE (7-16) PRESSURE

Air pressure: 25 p.s.i.

FRONT TYRE (8-16) PRESSURE

Air pressure: 23 p.s.i.

Location: On Front Rims. Part No.:1240-904-006-0

REAR TYRE (12.4-24) PRESSURE

Air pressure: 22.8 p.s.i

REAR TYRE (13.6-24) PRESSURE

Air pressure: 22.8 p.s.i.

Location: : On rear rims. Part No.:1240-904-007-0



WARNING

DO NOT REST FOOT ON CLUTCH PEDAL. MAY RESULT IN DAMAGE TO CLUTCH ASSEMBLY.

UNIVERSAL SYMBOLS

Some of the universal symbols have been shown below with an indication of their meaning

(Engine speed rev/minX100)	Pressured- open slowly	Corrosive
	Hours, recorded	Continuous variable	"Tortoise" Slow or minimum Setting
	Engine coolant temperature	Warning	"Hare" fast or maximum setting
	Fuel Tevel	Hazard warning	Transmission oil pressure
	Engine Stop control	N Neutral	(구다) Turn signal
₽	Lights	Fan	Transmission it temperature
\rightarrow	llorn	Power take off engaged	P parking brake
-⊗-	Eugine oil pressure	Power Lake off Disengaged	Work lamps
73.	Air filter	Lift arm/raise	Fifferential lock
	Battery charge	Lift arm/lower	See operator's manual

Controls, Instruments And Operations

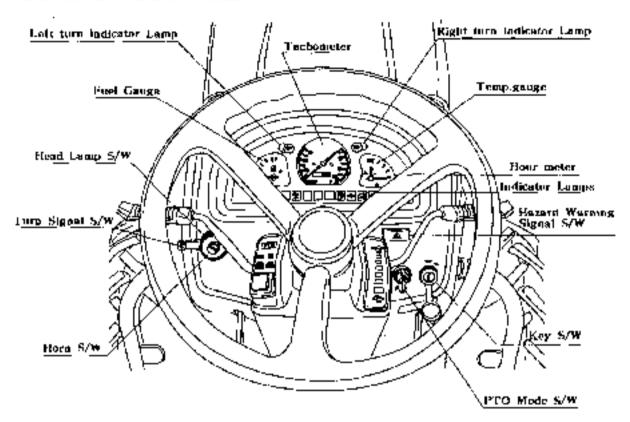
The following pages in this section detail the location and function of various instruments, switches and controls on your Tractor. Even if you operate other Tractors, you should read through this section of the manual and ensure that you are thoroughly familiar with the location and function of all the features of your New Tractor.

Do not start the engine or attempt to drive or operate the Tractor until you are fully accustomed to all the controls. It is too late to learn once the Tractor is moving. If in doubt about any aspect of the operation of the tractor consult your TYM Tractor Dealer/Distributor

Particular attention should be paid to the recommendations for running-in to ensure that your tractor will give long life and dependable service for which it was intended

DESCRIPTION OF TRACTOR CONTROLS

INSTRUMENT AND SWITCHES



► Main switch

[OFF]-The key can be inserted or removed.

[ON]. The electric circuit is on.

[Glow]-Glow plugs preheat the combustion chamber

[START]-The starter motor is engaged.

When the key is released it will return to the ON position



►LIGHT SWITCH, INDICATORS AND HORN

High and low beam are operated

On the main switch

Position 1. High beam

Position 2 Low beam



This meter shows the revolutions of the engine and the PTO shafts as well as the travel speed in top gear.

(1) Right needle

Indicates speed in top gear.

(2) Left needle

Indicates engine revolutions

►HOUR METER

The hour meter consists of digits with the last digit indicating 1/10th of an hour

►FUEL GAUGE

Shows the amount of fuel in the tank when the ignition switch is ON

►WATER TEMPERATURE GAUGE

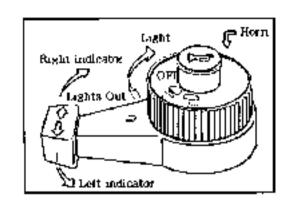
Shows the water temperature with the ignition switch ON

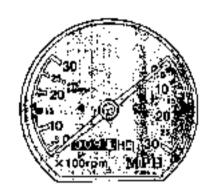
C is low to normal temperature

H is high temperature

If the pointer is in the red II segment the engine is overheating

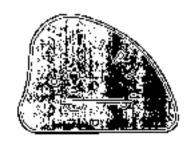
Refer this book to rectify the problem



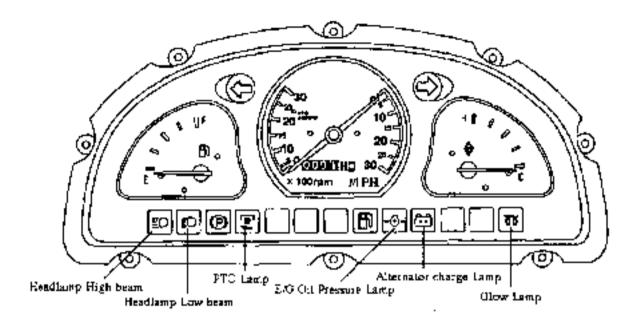








►WARNING LIGHTS.



Свитде Іатр



This light will go off as soon as the engine starts to run to indicate that the atternator is changing.

(Please note, as broken fan belt can cause the light to come on, please stop the engine as overheating can occur if not rectified immediately)



Oil pressure lamp

Will go out as soon as the engine starts if the oil pressure is correct.

If it comes on while the engine is running, stop the engine and get expert advice,



PTO monitor Lamp

Shows the revolution of PTO Refer to monitor Jamp on Page 34



High beam lamp is operated on the combination switch.



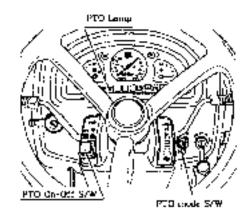
Low beam lamp is operated on the combination switch



Glow signal Lamp indicates prehearing

►Independent PTO

■ It must be noted that the PTO shift lever on the LHS below the driver seat should be shifted to position 1 (540 RPM) or 2 (1000RPM) depending upon the implement specification. In no case the specified speeds be crossed as serious damage to the tractor/implement to person can result because of this. When the PTO is not in use the shift lever must be put in neutral position to avoid unnecessary use or accidental use.



■ The PTO monitor lamp on the dash panel indicates the state of the PTO shaft.

- If the monitor glows: The PTO is rotating.
- 2. If the monitor is off: The PTO is off.
- If the monitor blinks: The PTO is presently stationary but will instantly start rotating of the clutch pedal is released or the implement is lowered.

Two switches operate the independent PTO.

- 1.PTO ON/OFF switch: PTO ON/OFF switch is situated on the EHS, on the steering column and can be identified easily with its built in red colored indicator. When the switch is pushed down to start the PTO indicator glows to indicate that the switch and the PTO are in ON position, If the switch is pushed down again the indicator goes off signaling that the PTO is OFF.
- 2, PTO Control switch: This switch is simuted near the starting key location on the dash panel. There are three positions marked for this switch.
- Off at the center
- Manual at the left
- Auto at the right.

The PTO shaft will not rotate if either of the two switches is in OFF position.

The following table explains how the PTO operates at the two different (Manual & Auto) positions of the PTO control switch with the PTO ON/OFF switch in the no position.



PTO momter Lamp



PTO ON,Off switch:



PTO control switch:

First select the specified speed for the PTO by using the PTO shifter on the LHS, below the driver seas.

PTO ON/OFF Switch	PTO Control Switch	Clutch Pedal.	Hydraulic Position Control Lever.	PTO Manitar Lamp on the dash panel	PTOSHAFT
On	Manual Mode	Either pressed or released	Either raised or lowered	Glows	Rotates
On	Auto Mode	Pressed	Either raised or lowered	Blinks	Stationary
Cin	Auto Mode	Either pressed or released	Raised	Blinks	Stationary
Оп	Auto Mode	Rejeased	Lowered	Glows	Rotates

- From the table above we learn about the safety features of the PTO. When the monitor on the dash panel is blinking it indicates to the operator that the PTO is in the on position but temporarily not rotating either because the clutch pedal is pressed or the implement is lifted off the ground or both. The PTO will start rotating instantaneously when either the clutch pedal is released and/or the implement is lowered to the ground.
- The operator must use this blinking signal to clear the area around the tractor off bystanders/onlookers as the rotating blades of certain implements can accidentally cause injuries to the persons standing near the tractor.
- The stopping of the PTO when the implement is lifted off the ground with the position control prevents the damage to the implement or the PTO shaft.



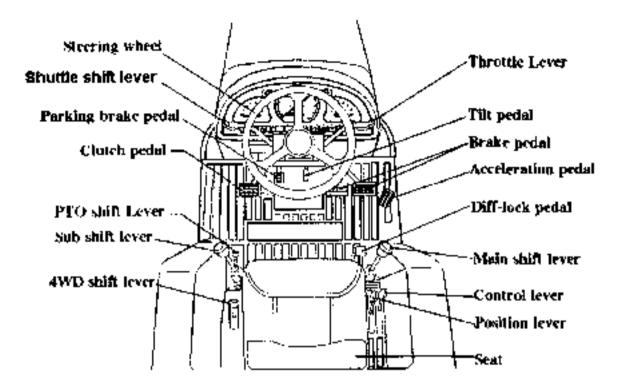
Warning

1. When the PTO control switch is to manual position the PTO does not stop rotating even if the clutch pedal is pressed. If working on hard soils, pavements with a rotary implement the PTO ON/OFF switch must be put to the OFF position to stop the PTO from rotating. If this is not done the rotating blades of the implement

will push on the hard ground below and in turn push the tractor toward causing accident which can lead to serious injuries or death.

- 2. Extra precaution must be taken to clear the area of bystanders/onlookers when using PTO driven implements. The rotating blades of the implements can cause serious injuries on contact. The warning that is indicated by the blinking PTO monitor is to make the operator aware that the PTO is in on position and will instantly start rotating if the clutch pedal is released or implement is lowered or both.
- 3.In no case the specified rotating speeds indicated by the implement manufacturer be crossed as the same can lead to serious damage to the tractor/equipment and can lead to serious injuries to persons around.

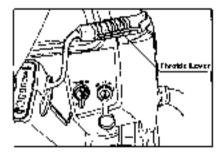
TRACTOR CONTROLS



► Hand Throttle

Pulling the hand throttle towards the driver increases revolutions

Pushing it away from the driver decreases revolution.



►Clutch disconnecting arm

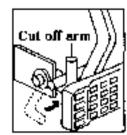
For long term storage of the Tractor it is possible to latch the clutch in the disengaged position.

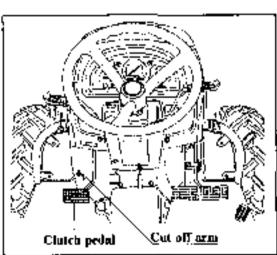
Push the clutch down and engage the latch to hold it there.



warning

Do not attempt to start engine when this arm is being used.





BRAKE PEDAL.

Right and left brake pedals are provided to assist in turning the tractor in the field.



Caution

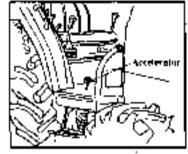
A connecting fatch is provided to connect the right and left brake pedals for high speed or road use.

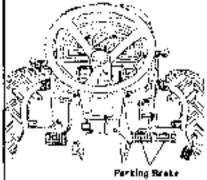
In the interest of safety always use it on the road or at high speed as using one side only can cause rollovers.

When servicing the tractor ensure that the adjustment on both sides in the same.

Foot operated accelerator.

This pedal can override a fixed hand throatle setting





Park brake

Connect the brake pedals, push them down while pulling the park brake up to engage. Press the parking brake pedal and push the Brake pedal to release.



Traveling with the park brake on will damage the brakes.

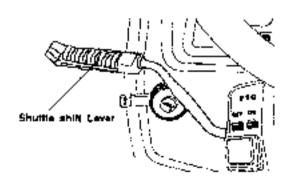
►Shuttle shift lever

This centrol allows shifting from forward to reverse & reverse to forward. When stationary set the lever to N for neutral

- (I) Push the lever away from the driver engages forward.
- 2) Pulling the lever towards the driver engages reverse



Press clutch pedal fully before operating shuttle shift lever.





important

When changing from forward to reverse or back to forward again while in high range make sure the tractor comes to a stop before changing direction. Failure to do so is likely to result in damage to the mechanism and place the driver at risk of injury.



Operate the shuttle shift only while seated on the tractor.

Do not use the shuffle shift lever to start the tractor for towing or traveling uphill, use the clutch instead.

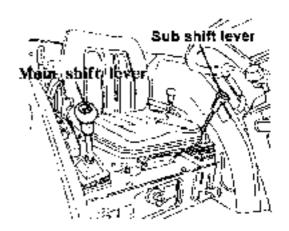
Caution

Always stop the tractor before getting off.

Main gear lever

This lever can be shifted by using the clutch, both when the tractor is stationary or mobile.

It is located on the R.H.S of the driver seat.



Sub gear lever

Operate the sub-gear lever using chitch in select the appropriate speed for different applications

It is located on the LHS of driver seat.



important

Do not operate gear levers without stopping the tractor & without using the clutch.

Diff-lock pedal

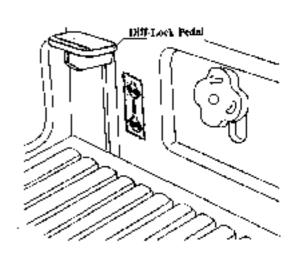
In case of wheel slippage use the diff-lock by pushing down on the diff lock pedal.

To release it remove the foot from the pedal.



Danger

Tractor will be difficult to turn if the Diff-lock is engaged, ensure the lock is disengaged before turning the steering wheel.





Do not use high engine RPM when engaging Diff lock if the diff lock does not release after removing the foot from the diff lock pedal alternatively brake with the left and right brake until it gets released.

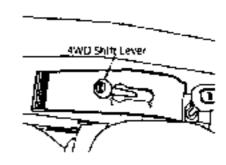


Never use the diff lock at high speed or on the road as this can cause roll over and injury.

► Front wheel drive lever

In the ON position the front wheels are engaged and in the OFF position they are disengaged.

Engage & disengage the front wheel drive with the front wheels in the straight position and at low Engine RPM.





important

Always use the clutch when using the front wheel drive lever.



important

Do not use front wheel drive at high speed or on the road as premature wear of components will result.

Use of front wheel drive improves traction performance.

Driver's sent

To adjust the seat backwards and forwards lift the lever at the front of the seat and set it to the desired position

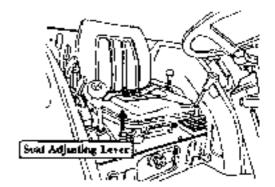
➤ Tilt pedal

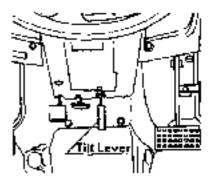
To adjust the inclination of the steering wheel with a 3 stages and set it to the desired position.



Danger

Ensure that the tilt pedal has locked before moving the tractor.

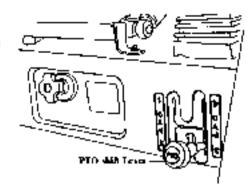




PTO GEAR SELECTION LEVER

Your tractor is equipped with 2 speeds PTO (T390NEW/F400NEW) and 1 Speed PTO (T430NEW/T450NEW) and optional 4 speed PTO to suit range of applications and conditions.

		POSIT	ION	
MODEL	1	2	3	4
T390/T400	599	977	-	
T430/1/450	\$87	1057	•	•
T430/T450(Optional)	540	750	1000	1250





Always use the clutch when engaging or disongaging the PTO or changing PTO speed. Let the PTO driven implement come to a complete stop before changing.



Do not operate any implement at a high speed than is specified for it.

When making adjustments to the implement stop the engine to avoid serious injury.

When leaving the tractor stop the engine, and remove the key. Set the parking brake.

Operating the hydraulics.

The hydraulies are powered with an engine driven hydraulic pump and controlled with a position control level arounted beside the driver.

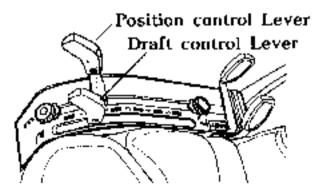
Position control

➤ implements can be raised and lowered with the hydraulic position control lever and can be stopped at any position by stopping the lever.

To ensure a consistent working depth the adjustable stop can be set to ensure that the implement returns to the same depth every time.

To raise the implement: Pull the lever back

To lower the implement: Push the lever forward.

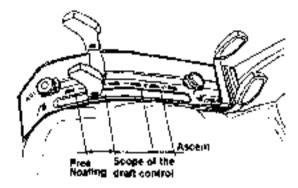




After finishing the work, always lower the implement to the ground and switch off the engine. Set the parking brake to avoid injuries and accidents.

Draft control lever

Soil engaging implements can be set for precision work by using draft control. By mounting the lever forward. The depth increase & by moving the lever backwards the depth increases.



Adjusting Knob of hydraulic descent speed

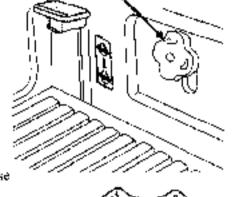
▶ Lowering speed control knob for the 3 point hitch

This knob controls the downward speed of the hydraulies three point linkage and is positioned at the front of the driver's seat.

To slow the downward speed- I urn the knob clockwise.

To increase the downward speed, turn the knob anticlockwise. To lock the knob clockwise.

Do not over tighten the knob.







Caution

Always set the knob to look when

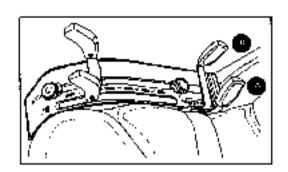
- 1. Traveling on the road
- 2.Replacing tires or blades on an implement.
- 3. Making adjustments to an implement, Sudden dropping of an implement due to hydraulic problems can cause serious injury or death.

Exterior hydraulic Lever (Optional).

Move the lever up or down and hold. This will raise or lower the implement (rotavator or hydraulic plow). Lever will return to neutral by itself

Important

- Do not hold the lever in the "pull" or "Push" position once the remote cylinder has reached the end of the strake as this will cause oil to flow through the relief. vulve. Forcing oil through the relief valve for extended periods will overheat the oil.
- When Using the tractor hydraulic system to power. front loader, do not operate the boom and bucket cylinders simultaneously



Remote hydraulic control valve coupler connecting and disconnecting

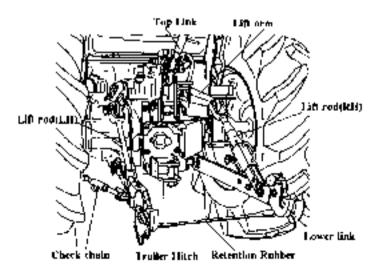
Connecting

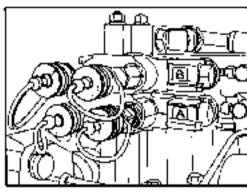
- I Clean both couplers
- Remove dust plugs.
- Insert the implement coupler to the tractor hydraulic coupler.
- 4.pull the implement coupler slightly to make sure couplers are fighly connected.

Disconnecting

- 1.1. ower the simplement first to the ground to release hydraulic pressure in the hoses.
- 2. Clean the couplers
- Relieve pressure by moving hydraulic control levers with: engine shut off Poll the hose straight from the hydraulic coupler. to release it.
- 4.Csean oil and dust from the coupler, then replace the dust plugs.

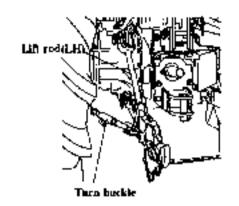






► ADJUSTING THE CHECK CHAIN

To adjust the check chain turn the numbuckle to lengthen or shorten the chain and tighten the lock not when the correct adjustment is achieved.



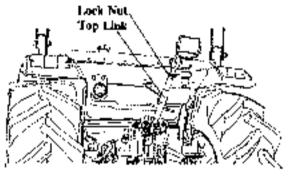
► ADJUSTMENT OF THE TOP LINK

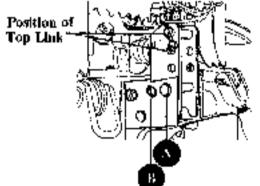
Lengthening or shortening the top link will change the angle of the implement,

The locating hole of the top link varies with the type of implement used.

The most common locations are the 1st and 2nd hole from the top

- I) For general implement :Use the Pin to "A; point
- For Draft control Use the Pin to "B"point



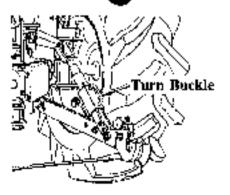


▶ ADJUSTMENT OF LOWER LINK

The adjustment is done with the adjusting handle on the Right hand yoke rod

To shorten it wind the handle clockwise and to lengthen it wind it anti-clockwise.

When adjusted correctly hold the turn buckle with the stopper provided.

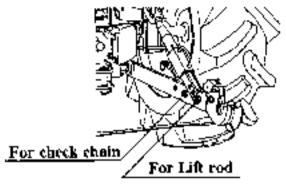


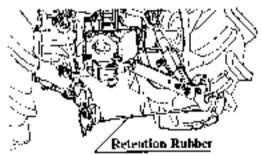
► ADJUSTMENT OF THE YOKE ROD ON THE LOWER LINK

For different applications change the position of the yoke rod on the lower links as shown and insert the pin in the direction of the arrow

►USE OF THE RETENTION RUBBER

When not using implements on the three point linkage use the rubber as shown to prevent tire damage.







Only use drawbar to tow and keep the 3 point linkage in raised position when to eing with the drawbar.

Position can create unbalance causing the Tractor to roll-over & Result the death or serious injury.

▶ MOUNTING IMPLEMENT

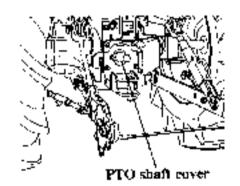
If the PfO is used, remove the safety cover off the PTO shaft. Adjust the yoke rod on the lower links to suit the implement in use.

Attach the left lower link, then attach the right lower link using the adjusting handle on the leveling box if required. Attach the top link.

Altach the PTO shaft to the tractor if used, making sure that it is locked in place.

Adjust the check chains to suit the implement and tighten the locknuts.

To remove an implement reverses the procedure



A

Caution

Do not attach a PTO shaft with the engine running and ensure all safety shields are in place.

DRIVING THE TRACTOR

STARTING THE ENGINE

Before starting the engine carry out the pre-operational checks as set out on page 17.

- (1) Sit on the driver seat.
- (2) Apply the footbrake.
- (3) Put the hydrautic lever in the down position.
- (4) Push down the clutch to activate the safety-starting switch.
- (5) Put the main gear fever in neutral.
- (6) Insert the ignition key and turn it on.
- (7) Ensure that the warning lights are working
- (8) Always turn the ignition key to left for a moment & release it. The automatic heater will start working as will be indicated by a light on the instrument panel. As the lamp goes off turn the key to the start position to start the engine.
- (9) Ensure that all the warning lights are off with the engine renning.



Never turn the key to the start position while the engine is running as this cancause serious damage to the starter and engine flywheel.

ingnogeni

Only engage the starter for a period of not more than 10 seconds If Engine does not start, rest the starter for about 20 seconds and try again for a maximum of 10 seconds. If the engine does not start after repeated attempts. refer to the fault tracing guide on page 83.



Expecially in gold weather, always allow the tractor to idle for a while to warm up. & build up sufficient oil pressure to ensure normal operating temperature for honger engine life.

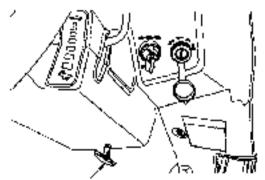
<u>STOPPING THE ENGINE</u>

- After light work let the engine idle for a while and turn. the key off.
- -The engine stops when the key is torned off. If the engine does not stop. Pull the engine stop cable back and hold it. until the engine stops. After the engine has stopped, be sure to push the engine stop cable back in,or the engine will not start next time.



After long or heavy work allow the engine to idle for 5-10 minutes and turn the key. aff.

important



Emergency E/G Stop cable

WARMING UP

When starting the engine allow it to warm up to operating temperature by allowing it to idle 5-10 minutes to ensure full lubrication and operating temperature.

Failure to do so can shorten engine life substantially.

► WARMING UP IN COLD WEATHER.

Cold weather will change the viscosity of the oil, resulting in a reduced oil pumping capacity, which can cause damage to the engine if it is not warmed up correctly.

It also causes problems with the hydraulic system and the synchromesh in the transmission.

Correct times for warming up are:

Temperature	Time for warming up
Above 50°F	510 min.
50°F- 32°F	10~20 min.
32°F-14°F	20-30 mia.
14°F~-4°F	30–40 min.
Below -4°F	Over 40 min.



Ensure the handbrake (Foot brake) is on during the warming period.

When the engine is warm push down the clutch and engage the main and auxiliary gear levers to the required position.

Push down on the brake pedals and release the handbrake.

Increase the engine revolutions and let out the clutch smoothly.

Only change gears with main gear lever while moving and ensure that this is done with fully use of the clutch.



Caution

Do not "ride" the clutch to control speed, use a lower gear.

Do not travel with your foot on the clutch pedal.

Always connect the brake pedals when traveling on the road.



Never tow anything except with the drawbar.

Do not tow loads which are too large for the tractor's capacity to brake effectively especially in hilly terrain.

Take special care when towing large or wide implements.

Do not carry passengers.

At all times observe local legislation and road rules.

TIGHT TURNS IN THE FIELD

Disconnect the latch connecting left and right brake pedals in allow the use of individual pedals.

Formake a tight turn use both the steering wheel and the brake pedal at the same time.

For a left turns use the left pedal and a right turn the right pedal.





Caution

Perform tight turns only at a slow safe speed.

Doing so at a high speed can cause rollovers and very serious injury or death.

NORMAL BRAKING AND PARKING

Let the engine come back to idle and at the same time push in the clutch and brake simultaneously.

When the tractor has come to a halt, lower any implement to the ground, and put the main gear in neutral.

Apply the park brake, stup the engine, and remove the key.



Illustration



Caution

Always apply the park brake when parking,

Failure to do so can cause accidents and damage.

As an extra precaution when parking on a slope, chock the rear wheels.

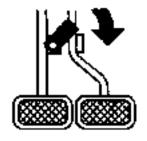
UPHILL STARTS ON A STEEP SLOPE

With the pedals connected together push down on the brake pedals and push down the clutch.

Set all gear levers to low and the throttle to medium engine speed.

Release the clutch and as it engages release the brake pedals.

Adjust the throttle to the required speed.



Driving downhill

Use the engine's ability to brake when traveling downhill.

Never rely on the brakes only and never travel downhill with the gears in neutral.



Caution

When operating in hilly terrain the risk of the rollover is increased substantially, please drive with extra care.

When towing trailers in hilly terrain ensure that they are equipped with brakes, use a lower gear to get maximum engine braking and do not change gears on a down hill run

OPERATION OF THE DIFF LOCK

While the diff lock is a very oseful feature, care should be taken in its use as misuse can lead to dangerous situations.

The diff lock would only be used in situations where traction is lost on one of the rear wheels.



Warning

Use low engine revolutions when using the diff-lock.

If the diff lock does not release after removing the fact from the pedal use the left and right brake pedals in turn to release it.

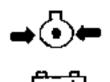
Do not try to engage or use the diff lock on tight turns as serious damage can result.

CHECK DURING DRIVING

Constantly monitor the warning lights on the dash and if any comes on stop the tractor to determine the cause.

If the oil pressure light comes on check the oil level first of all if the oil level is OK ask a qualified dealer to check the reason for the light coming on.

If the alternator warning light comes on check all connections and ensure that the fan belt is not broken. If all connections and the fan belt are intact consult your dealer to determine the cause of the problem.





Fuel gauge.

To avoid excessive condensation in the fuel tank refill at the end of each day's work and ensure during the day that it does not drop to a low level where the fuel system will require bleeding to expel air in the system after refilling the tank.





► Engine cooling water.

If the gauge indicates that the engine is running hor, stop the tractor and check the goolant in the radiator.



Danger

Allow the engine to cool down before opening radiator cap as serious burns may result due to hot steam & boiling water.

Also check to ensure that the fins in the radiator core are not clogged or that the tractor has a broken or stretched fan belt.



When traveling on public or farm roads connect both brake pedals and allow for the weight of any mounted implement to ensure that the unit is not unbalanced.

Caution

Also allow for the width when passing other road users.

Where fitted use the hazard lights provided.

Strictly follow the local traffic regulations.

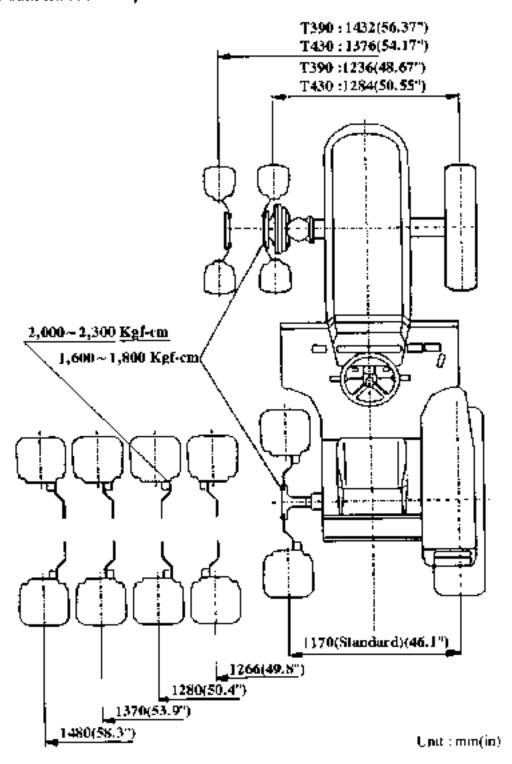


Caution

When operating near others with an implement attached take particular care to allow for the width of the implement and avoid accidents.

▶ Track adjustment

As some models of TYM are from wheel assist the from track can be set in 2 positions. The rear track can be set in 5 positions as illustrated.



Section-B

Lubrication



Maintenance

This section gives full details of the service procedures necessary to maintain your Tractor at peak efficiency white the lubrication and maintenance chart provides a ready reference to these requirements.

CHECKS AND SERVICE.

PRE-START CHECKS

To avoid problems it is recommended that a range of checks he carried out daily before starting the tractor

For full details of the items and frequency please refer to the tables on page 57.58, and 59.

Engine coolant

Remove the radiator cap and ensure that the coolant is up to the filler neck and that it is blean with the correct anti-freeze or anti-corresion inhibitor in it.

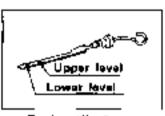
If the coolant is a rusty color, drain the system completely and refull with the correct mixture of water and anti-freeze or corresion inhibitor.

▶ Engine oil

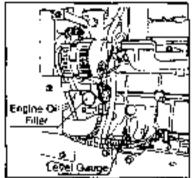
Pull out the stick, wipe it and dip in the oil sump.

Ensure that oil level is between the upper and lower mark near the upper mark. If too low add oil, but never excess

100hrs.



Engine oil gauge





Engine of their plus



Do not overfill the crankcase with oil.

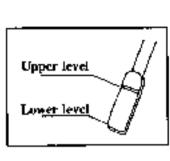
► Transmission oil

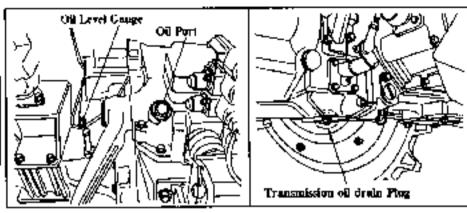
Check the level with the dipstick on top of the transmission in rear of the seat.

If the level is low add oil through the filler hole,



Always ensure that you use the correct oil for topping up or oil changes.





▶ Fuel

Use the fuel gauge to check the fuel level and top up if too low.

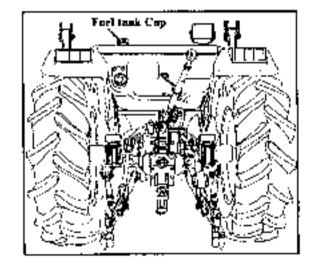
It is a good practice to refill the tank immediately after use to avoid condensation



The air pressure used in the tires has a direct bearing on the life of the tire and its performance in the field.

Ensure that the tire pressures are correct and in accordance with the table on page 59.

To make a visual judgment see the drawing on the right.





Excess Standard Lack



- |

It is strongly recommended that tire pressures are checked with a proper gauge only. & visual inspections are relied upon.



Excess tire pressure can cause accidents!

Danger

Steering

Ensure that the steering wheel does not have excessive free play

Brake

Ensure that the left and right brakes are adjusted correctly so they operate simultaneously. The correct free play on the brake is 1.18-1.57 in (30-40 mm).

▶ Clutch

Ensure that the chutch is adjusted correctly.

Correct free play on the clutch nedal is 0.78-1.18 in (20-30mm).



Caution

incorrect clutch adjustment can cause excessive wear and reduced tractor performance.

▶ Electrical

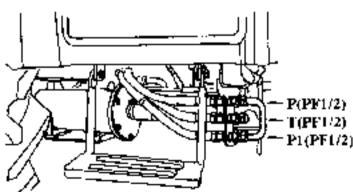
Check the operation of all gauge, switches, horn, fights and indicators.

► Installing loader

- 1. Connect P port of leader control valve to the line on the tractor marked P(from the PTO valve).
- 2. Connect the T port on the loader control valve to the line on the tractor marked T for the TPL at the rear of the tractor).
- 3.Connect the remaining line from the control valve to the line on the tractor marked P1 (to the transmission housing)

Detaching the loader

- I.Detach the hydraulic hoses of loader.
- Assemble the cap (PFT/2) with pipe comp.(PFT/2).



Pi : Passed oil through application

T :From application(Loader)valve(Used oil)

MAINTENANCE AND ADJUSTMENT SCHEDULE

Periodical check and service table

- O Check, Top-up or adjust Replace
- △ Clean or wash ★ Consult the service Dealer

			_	_		_	141									C
모	Item	Daily	Sc	rvic	e int	Crv2	II(ho)ЦГ [nele	T.(II)	ırk)			\square	Frequency	Comment .
Division		٠.	5		1]	2	2	3	3	4	4	5	5	6	'	
3		1	0	0	5	0	5	0	5	0	5	0	5	0		
Ш			Ш	Ú	0	0	0	0	0	0	0	0	0	0		
	Engine Di	ं	•		•		•		•		•		•		Change every 100 hours	To correct level on the dipstick
	Air cleaner			^		>		>		^		Ŷ		•	Clean every 100 hours	
	Radiatur ceolant	0				•	1								Check daily top up if required	See page 54
	Radiator	ं													Check daily for damages leakage	
1	Fuel	0	Γ									_				Fill tank
_ <u>_</u>	Fuel filter			Ö	^	၁	۸	•	٥	O	^	0	Α.	•		
Engine	Fan belt	ं													Check daily	See page 70.
`	Battery	1	Γ	្		O		()				0		0	Check daily	
	Oil filter		*								*			_	Change every 400 hours	
	Loose nussand lealis	C							-						Check daily	Tighten
	Radiato: hose clamp	С														Tighten if required

1	A	
_		_

These intervals are for operation under normal conditions and need to be reviewed under severe conditions to a greater frequency

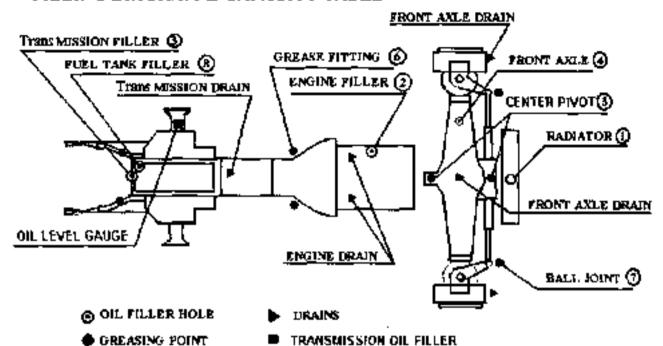
Caution

_	Item	وانيط	Sc	rviç	e in	tervi	al(ho	ו זענ	пск	:r,ın	ark)				Frequency	Comment
Division		Ϋ́	5	1 0 0	1 5 0	2 0 0	5	3 0 0	5	4 0 0	4 5 0	5 0 0	\$ \$ 0	6 0 0		
	Trans massion oil	0	•						•						Change every 300 hours after first 50 hours	
Chassis	Free play of cluich pedal	c												·	Check daily	(0.78-1.18in)
	Pree play of brake pedal	i.													Check daily	(1.18-1.57)
	State of both brake pedals	0													Check daily	Adjust so that both operate singultaneously and brake at the same time
	Operation of each tever	ं													Check daily	Smooth operation
	Free play of sleering wheel	ं								i				l i	Check daily	About 50mm (1.97 in) of wheel circumference
	Toc-in							*					_	*	Check every 300 hours	(0.08-0.24in)
	Grease in front wheel hub														Grease every 900 hours	
	Check the steering wheel joint	0													Adjust every 300 hours	
!	Wheel rut fastening torque	O				_		_				İ			Check daily	Tighten if loose Front H6-130(R-lbs) Rear.268-282(f-lbs)
	Operation of the instrument	D										l			Check daily	

٥	Item	Daily	Sc	rvic	c in	erv:	al(hu	Sur r	nek	r.m	ark)			Frequency	Continent
Division		ķ	5	0 0	1 5 0	2 0 0	2 5 0	3 0	3 <u>.</u> 5	4 0 0	4 5 0	I - I	5 5 0	6 0 0		
Ch	Adjustment of the throttle pertal														Check every 300 hours	
Chassis	Gresse each nipple		Ğ	0	C	0	O	ं	ା	0	C	0	ဂ	0	Realenish every 50 hours (everyday in dusty conditions)	
' 	Loose bolts and nuts	ै													Check daily	Tighten to proper torque
	Check the Jeakage of oil at the clutch chamber														Check once a year with the sower plug pulled out	
	Hydraulic ail filter	T	•						•						Change every 300 hours	
	Oil of the 4WD front axte		•		0		C		C		C		0	7 0	Check every 100 hours. Cliange every 600 hours	Replace if leaking
	Check the electric wiring	C													Check every year	Without loose or broken terorinals. Without damaged or missing wiring. Correctly clamped

	DIVISION	SIZE	Air pressure (PSI)	MODEL
. .	Frant	8-16	23 psi	T390
Tire	Rear	13.6~24	22.8 psi	/T400
	Front	8-16	23 psi	1430
	Reur	13.6 - 24	22.8 psi	/f450

FILLING DIAGRAM & CAPACITY TABLE



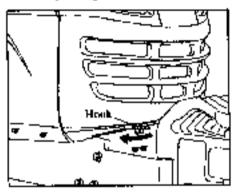
_					
No.	Filling point	Fillings	Quantity Liter (gal.)		
		MODEL.	T390/T430		
1	RADIATOR	Fresh clean War	er(L.L.C)	98(2.38 DS gal)	
2	ENGINE	API : CD/CE grades Ahove 25°C(77°F)\$A 0°C to 25°C(32°F to 77° 10W30 Below 0°C(32°F)\$AE	F)SAE20 or	8.28 (2.17 US gal)	
1	TRANSMISSION CASE	San san t name *	T390/T400	358(9.25 US gal)	
	TRANSPUSARON CASE	See next page *	T430/T450	378(9.77 US gal)	
4	FRONT AXLE	Gear oil #80	or#90	9 38(2.45 US gal)	
S	CENTER PIVOT	Circase		As required	
6	CLUTCH PEDAL SHAFT, BRAKE PEDAL SHAFT	Grease	-	As required	
7	BALL JOINT	Grease	As required		
30	FUEL TANK	Diesel fu	358(9.25 US gal)		

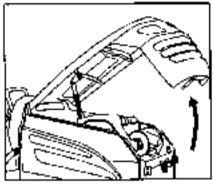
• Recommended Transmission of

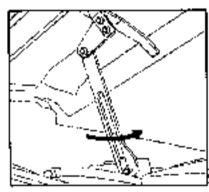
- (i) RPM Tracsor Hydraulic Fluid or Textron TDH Premium (CALTEX)
- (2) TOH Oil or TDH Oil special (TEXACO).
- ③ Chevron 1000THF (CHEVRON)

Opening method of each cover

► Opening method of Hood







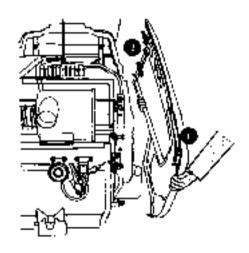
guide hook lock

Pull the lower center lever of the front grille counter clock wise, pull the lower edges of bond panel upward, and pull the whole panel forward till guide book lock is booked to groove.

Opening the Side cover

To open, grasp the side cover. Pull the forward panel upward to separate from goide support pin (1).

And pull the side panel forward again.



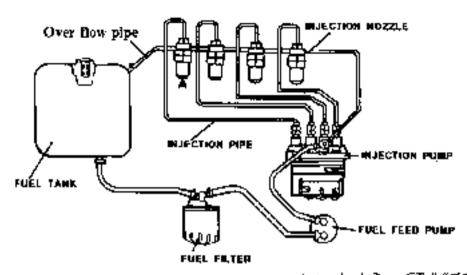
▶ Fuel

Use clean diesel fuel only



As diesel fitel equipment is susceptible to contamination by dust or water. Ensure that all dust and water is kept well away from the fuel tank

BLEEDING THE FULL SYSTEM



- I) Fuel filter cock ON ...
- 2) Open the cock on the fuel injection pump
- F:II the tank with fuel and turn the ignition key to on.
- 4) Start the engine and allow it to run for a while
- 5) Close the fuel injection pump cock
- 6) The bleeding of the system is now finished.

Air breuthing seren

CHANGING THE OILS IN THE TRACTOR

Always use quality oils as engine or transmission oil (refer to the page 60).

Refer to the table on page \$7,58 and 59 for the change frequency

Changing engine oil.

Park tractor on level surface, shut-off engine. Remove sump plug & drain oil.

Replace and check the sump plug and reful the engine with oil to the correct level on the dipstick (approx. 2.17 gal)

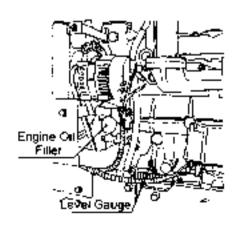
The grade of oil to be used will depend on the ambient temperature.

The tractur is shipped from the factory with 10W/10

For summer use over 77°F use SAE 30

For temperatures from 32°F+77°F use SAE20 or 10W/30

For temperatures below 32°F use SAE 10W





When changing the oil always change the filter.

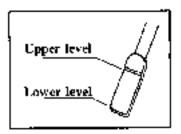
Always use the same oil, as using different oils or specifications can cause damage.

Dispose off the old oil as per local regulations.

Changing the transmission oil

Remove the drain plug from bottom of the transmission and drain the cit.

Replace and check the drain plug.



Refill the transmission to the correct level on the dipstick with new pill: 1390/1400 qty 55% (9.25 US gal)

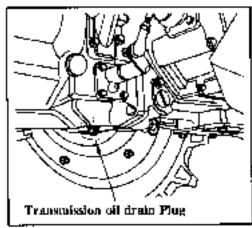
T430/T450 qty 37 d (9.77 US gal).

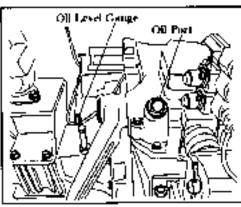


important

Always use the same grade and specified oil as replacements

Dispose off the old oil as per local regulations.



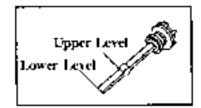


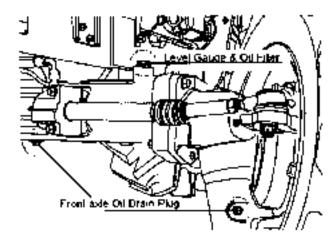
Changing the front axic oil

Drain the oil from the left and right drain plugs.

Replace and check the drain plugs.

Fill with new oil to the correct level in the filler hole (qty 9.3 %) (2.45 US gai)

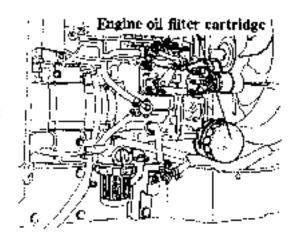




CLEANING AND CHANGING PILTERS

Engine oil filter

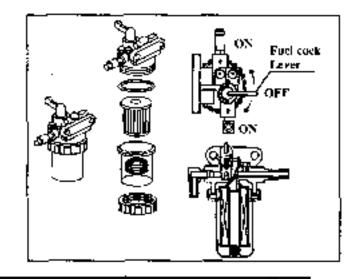
Using a filter wrench turn the filter anti-clockwise to remove it. Lightly smear the rubber scal on the new filter with oil to ensure, turn it clockwise until the scal cantacts the base and then turn it another 2/3 turn to tighten it.



■ FUEL FILTER.

This is the primary filter and removes water and coarse dirt from the fuel. To clean it first close the tap then remove the filter and wash it.

After replacing it bleed the air from the filter



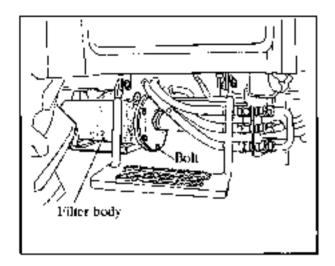
Never use petrol (gasoline) thinner or similar inflammable material to wash the primary fuel filter.

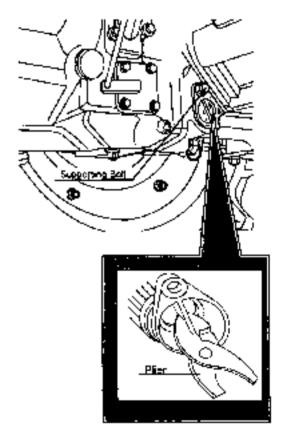
After replacing the filter always blood the system (see page 62).

► HYDRAULIC OIL FILTER

Remove the filter with a filter wrench.

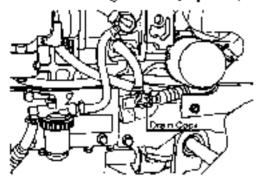
To replace, apply oil or grease on the seal, tit by hand until seal contacts hare, then turn it $2/3^{st}$ turn further to tighten it check for leaks

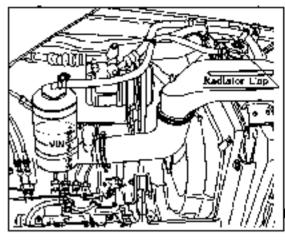




CHANGING THE COOLANT.

- Open the tap in front of the gear pump to drum the coolant.
- (2) Open the radiator cap at the same time.
- (3) To give a thorough clean run a bose into the radiator and flush it out.
- (4) Close the tap and refill the radiator with a coolant mixture of water and corrosion inhibitor or anti-freeze.
- (5) Start the engine and allow it to run for approx 5 minutes, check the water level again and top up if required







Do not remove the radiator cap on a hot engine.

Allow the engine to cool down and then turn the cap slowly to ensure, that there is no excessive pressure in the radiator.



Serious burns, can result from the contents of pressurized, hot radiators.

Allow the engine to enol down completely before opening radiator cap.

Anti freeze.

Frozen cooling water can damage the engine.

Before replacing the anti-freeze solution flush the radiator.

Mix the anti-freeze solution in accordance with the instructions applicable to the brand of antifreeze and the locals climate.

Replace the solution in the radiator.

In case of loss of solution due to evaporation or overflow, replace with the original mixture ratio.

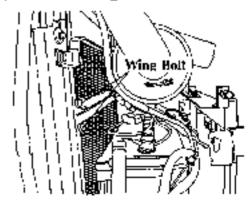
▶ CLEANING THE RADIATOR AND COVER.

Insects, grass straw and dust can all block the radiator and reduce its efficiency.

Remove the radiator cover to clean it and the radiator

Release the wing bult and pull to remove the cover.

Then clean the radiator between the fins and tube by using clean water.





Water or air under high pressure can distort the cooling fins on the radiator and reduce its officiency.

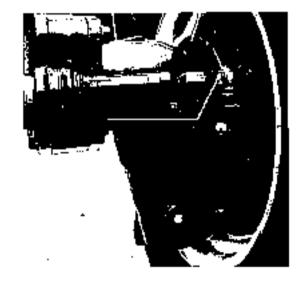
GREASING THE TRACTOR

Grease the tractor according to the service schedule (page 58)

Ensure that grease nipples are cleaned well before any attempt is made to grease them.







GAP ADJUSTMENT ON THE FRONT AXLE

Lift the front with a hydraulic jack to get the wheels of the ground.

Then loosen the not and tighten the holt fully and turn the holt % to loosen again in order to roll the center pivot metal freely and tighten the nut again. While the wheels arte still off the ground, move the axle on the center pivot as a final check that the gap is set correctly on the top of the pivot metal.



⊼rynt axte

Backward

Forward

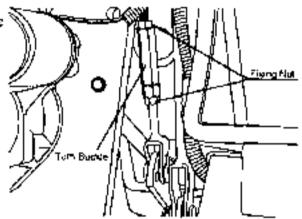
ADJUSTING THE CLUTCH

Using the clutch over a period of time will increase the free play.

The correct free play of the pedal is 0.78-1.18 in

To adjust, loosen the locknut on the tumbuckle and adjust.

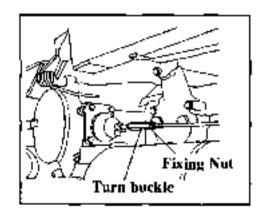
Check the adjustment and tighten the lockmit if the free play is correct.



ADJUSTING THE BRAKES

As is the case with the clutch, use of the brakes will change the pedal free play and the balance between the right and left pedal.

The correct pedal free play is 1,18-1.57 in



Adjustment method.

Lonsen the locknots at each end and turn the rod to adjust the brake.

Turning it anticlockwise increases the free play, chockwise decreases it.

Tighten the locknass.

Check that the free play is correct and the same on both pedals to ensure even braking



Uneven adjustment of the left and right pedal will result in one sided braking when the pedals are connected and can cause serious accidents, especially at high speeds.

Double check to ensure free play is the same on both pedals

ADJUSTING THE THROTTLE LEVER

If this lever is either loose or difficult to move please consult your dealer for rectification of the problem

ADJUSTING TOE-IN

If the toc-in adjustment is incorrect it can cause severe shaking of both the steering wheel and the entire tractor.

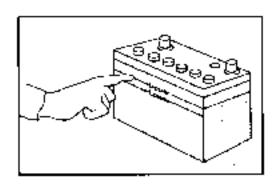
The correct toe in is 0,08-0 24in. We recommend that this adjustment is made by the dealer.

CHECKING THE BATTERY

The electrolyte level of the battery can evaporate during use thus lowering the level

Where it does so replace it with distilled water.

Where a spillage has reduced the level, replace it with electrolyte.





Luw electrolyte levels can cause premature battery failure and corrosion.



Caution

Electrolyte contains acid and can cause serious horns.

Any spillage on skut should be washed off by running water immediately.

►BATTERY MAINTENANCE

Low temperatures will affect the performance of batteries so take particular care of it in winter.

For long-term storage of the tractor remove the battery and keep it in a cool dry room.

If it is on the tractor while stored, disconnect the negative terminal.

Batteries will self discharge if left for a period of without use time.

To keep them in good condition charge them once a month in summer and every second month in winter

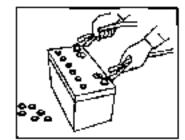
When replacing the original battery, ensure that the replacement battery is the same size.

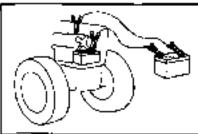
Failure in do so can cause problems with the electrical circuit

▶ BATTERY CHARGING

- A boost charge is only for emergencies. It will partially charge
 the battery at a high rate and in a snort time.
- -When using a boost-charged battery. It is necessary to recharge the battery as early as possible.

Failure to do this will shorten the battery's service life.







Caution

Always disconnect the negative terminal first when removing the battery and always connect the positive terminal first when futing the battery.

When connecting the hattery leads make sore not to reverse the polarity.

Quick charging will reduce battery life.

Disconnect the terminals prior to charging the battery to avoid damage to the circuit and electrical instruments

FAN BELT ADJUSTMENT

Check the tan best tension regularly and adjust if required.

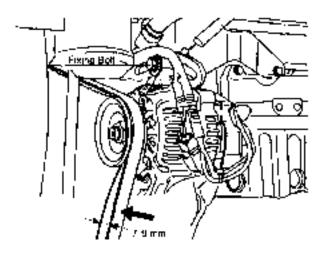
The correct tension is if the center of the belt is pushed.

With a finger st moves in approx. 7 to 9 mm (0.28 to (0.35 in) as shown in the picture.

To adjust the fan beit loosen the top bolt on the alternator.

Move the alternator to the desired position and tighten the holt.

Also ensure that the bolts at the bottom of the alternator are tight



SERVICING THE AIR CLEANER

To remove the dust from the evacuator valve squeeze it between thomb and fingers to let excess dust out and wipe around the valve to keep it clean from outside.

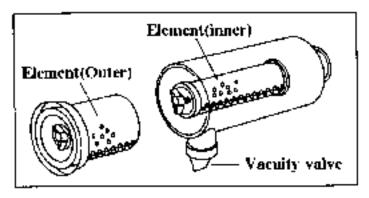
To clean the main element, remove the right fan cover.

Remove the element by unloading the wing nut.

Remove dust by blowing it out of the element with compressed sir.

Check the element to ensure it is not damaged.

Reassemble the element.





umportant

Never beat the element on a stone of concrete floor/wall to clean it Check all connections and hoses especially on the clean side of the air element to ensure no dusty air can enter the engine.

Check the element for flaws by putting a light inside the element.

When reassembling make sure all surfaces seal correctly to keep dust out.

When working in dusty conditions increase the service frequency.

▶ Replace the element after cleaning it 5 times or it is damaged.

CHECKING HOSES AND LINES.

The fact lines, radiator hoses, hydraulic and rubber hoses are consumables, which deteriorate by age and use.

Check them regularly and replace if faulty.



Damaged fuel lines leak and cause fires.

Damaged radiator hoses can cause hot water burns and in severe cases seize the engine.

CHECKING THE WIRING HARNESS AND FUSES

Loose wires make inferior connections and damaged wires can cause short circuits, fires burnt wiring or reduce efficiency of compunents.

Replace or repair any faulty wiring or insulation.

If a fuse borns out again after it has been replaced, do not replace it with wire or a high capacity fuse, find the cause and rectify it or get an auto electrician to do so

Where insulation is chafed or peeled off, recover the area with a good quality insulation tape. Where wiring comes out of it's fitting replace it correctly with the standard fitting.



important

Incorrect wiring or fitses can cause fires to both the tractor and surrounding area so get the dealer to check it animally.

Likewise fuel pipes and wiring age with use.

Ask your dealer to check it at least once every 2 years and replace as required

▶ REPLACING PUSES

The circuit has 8 blade type fuses in its wiring circuit.

(See diagram on page 89).

When a fuse has blown replace it with one of the same value.

Using a large capacity fuse or wire burn out the wiring system.

Use fuse tongs to replace fuses

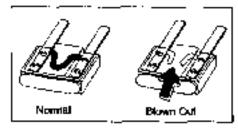
▶ MAIN FUSES.

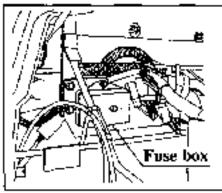
The wiring harness is equipped with 3 main fuses who's function is to preserve the wiring.

However when a main fuse blows the entire circuit is dead.

Always check the reason & rectify before replacing the fuse of the same value.

To indicate that the fuse is blown it will be discolored.







Always check the reason for a blown fuse otherwise the new fuse is also likely to blow.

NEVER EVER USE WIRE in place of correct grade fuse.

SERVICE PRIOR TO DAILY AND SHORT TERMS STORAGE.

Wash the tractor and keep it clean.

Fill the tank to avoid condensation and rust.

Lower any attached implement to the ground before parking the tractor.

For long-term storage consult your dealer

3.MAINTENANCE

For daily or short term storage

Clean the tractor and remove all dirt from field work.

Fill the fuel tank to avoid condensation and rust.

Lower the implement to the ground...

Keep it in a machinery shed or, if not available cover the unit if left outside.

In very cold conditions it is advisable to remove the battery and keep it inside in a warm environment.

This will ensure effective starting when the tractor is required.

When the outside temperature is below 32°F, replace the Antifreeze completely or drain the coolant to protect the engine from damage from frozen coulant.



important

When washing the tractor ensure that the water does not get near electrical components or the oil filter points

To prevent short circuits remove the ignition key.

Do not wash the tractor when the engine is running.

Long-term storage.

When the tractor will not be used for a long time carry out the cleaning as for short term storage.

Drain the oil and replace with new oil.

Run the engine for approx. 5 min, to ensure that it has new oil throughout the engine.

Drain the coplant from the radiator and remove the ignition key.

Attack a tag both the key and the steering wheel saying" No coolant".

Lubricate all grease and oil points on the tractor.

Check the pressures and add a small amount of extra pressure.

Lower any implement to the ground or store in a shady dry place.

Disconnect the clatch by using the clutch disconnecting arm.

Place a piece of wood under each tire to preserve the tire.



After refilling the engine with the coolant run the engine for approx, 5-10 min, at 1500-2000rpm every month as a corrosion prevention measure.

Either removes the battery or the negative terminal as mouse damage to wiring can cause short circuits and fires.

Remove the ignition key and store in a safe place

Re-use after long term storage.

Carry out a full check of all oils and coolant.

Refit the hattery and run the engine at idle for 30 min, to ensure optimum engine life.

Section - C

Specifications

The specifications in the following pages are given for your information and guidance. For further information concerning your Tractor and equipment, consult your Authorized TYM Dealer/Distributor.

TYM Co.LTD, policy is one of continuous improvement and the right to change prices, specifications or equipment at any time without notice is reserved.

All date given in this book is subject to production variations. Dimensions and weights are approximate only and the illustrations do not necessary show Tractors in standard condition. For exact information about any particular Tractor, please consult your TYM Authorized Dealer/Distributor.

SPECIFICATIONS.

Model:1390/1400

ENGINE

Four strokes, Direct injection, water-cooled

Diesel Engine.

Model : V2003

No of cylinders : 4

Swept Volume : 121,99 in2

Bore : 3.26 in Stroke : 3.64 in Compression Ratio : 23:1

Horse Power (PS) (Manufacturing rating)

Rased Speed . 2.600 rpm High idle rpm : 2,850 rpm

Low idle rpm : 850

Fuel injection pump : Bosch type mini pump

:41

Cylinder sleeve : Dry

Air Cleaner : Dry Filter element,

paper clement filtering type.

Exhaust Muffler : Horizontal Round,

Firing order 11-3-2-4

Accelerator : Hand & Foot Accelerator

ELECTRICAL STARTING AND LIGHTING

Rattery Capacity : 12 Volt 110AH Starter :Salenoid Engaged.

Key Start with Safety.

starter switch

Alternator :12V 50A

Instrumentation : Water Temperature Gauge,

Taco meter, Hour meter. Electrical fuel level gauge.

Lighting: Head lights, side indicators,

Rear parking., brake & indicator light. Front parking & indicator light. On dash board indicators for hattery charging, turn signal, PTO signal, Engine nil pressure. Preheat signal.

CLUTCH

Type : Dry single plate Outer dia, X Inner dia, : 10.26 X 6.691

TRANSMISSION:

Type : 5ynchro mesh No. of gears :12 forward.

> 12 reverse gears with high and low selection lever with Differential Lock

STEERING : Hydraulic power

(Power steering)

POWER TAKE OFF

Rear mounted : 6 splines Diameter : 1 in.

Standard PTO : (0540@2,524 engine RPM)

@1,000@2,866 engine RPM

BRAKES

Foot operated, independent with provision of inter lock for simultaneous operation. A foot

brake is fitted for parking.

Disc Diameter : 7,24 in Reduction ratio : 5.5

Number of lining : 4 each side. Total brake thickness : 2,299 in

HYDRAULIC SYSTEM

Independent fully"Live"hydraulic pump and separate reservoir.Position controls with

isolating & response control

Working Pressure :2,400 lbs/ in² to

2,600 lbs/ in³

Max.Lifting Force at

Lower Link hitch point : 2,865 lbs Pump output : 7.87 gal/min.

3 point linkage : category 1

adjustable nutside check chains.

▶ MAIN SPECIFICATIONS.

Model			1390/1400
	Overall leng	th (mm)	3.360 (139")
<u> </u>	Overall wide	dı(mm)	1.530 (60°)
	Overall heig	(ht/(mm)	2,230 (88")
Dimensions	Ossiance bet shafts	ween	1.800(70.9")
	Tread(mm	Frant	1,2361.432
	1		(48.6~56.37")
		Rear	1.1701480
			(46.1~58.26")
	Least groun	d elearance	330 mm (13")
	Weight (kg	()	1,690(3,769 lbs)
	Name		V2003
	Турс		Water cooled 4 cycle diesel engine
	Displacement (CC)		1, 999
Engine	Output/speed(PS/rpm)		41 / 2600
Ĕ.	Fuel		Diesel fuel
	Fuel tank capacity		358(9.25 US gal)
	Starting system		Starting with motor
Tire	Γr	ont	8-16-4 PR
	R	¢ 21T	13.624-4PR
Body	Clutch	system	Dry single type
	Brakin	g system	Wet disc type
	Steering	g system	Hydraulic
	Diff	system	Bevel gear(Diff-lock)
	Shift	method	Synchromesh
Minimu	m turning rad	lius(m)	3.1(122")
Shifting	, For	ward	12 stage
stages	Rev	ersc	12 stages
PTO	+		Ø35(1#), 6 splines
Lifter		ntrol	Position ,Draft
	<u> </u>	unting	CAT 1 type

Linear	Sub shift	Mata shift	Forward (mile/h)	Reverse (mile/h)
F	L	_	0.68	0.62
(R)		2	0.96	0.87
		3	1.29	1.18
		4	1.70	1.55
	М	1	1.88	1.72
	1	2	2.65	2.42
		3	3.58	3.28
ı		4	4.70	4 30
	Н	ı	6.34	5.80
		2	8.90	8.14
		3	12.06	11.03
		4	15.83	14,47

^{*}The specifications are subject to change for improvement without notice.

SPECIFICATIONS

Model:T430/T450

ENGINE

Four strokes, Direct injection, water-cooled

Diesel Engine.

Model : V2203

No. of cylinders : 4

Swept Volume : 134.07 in³

Compression Ratio : 22.6 Horse Power (PS) : 43

(Manufacturing rating)

Rated Speed : 2,600 rpm

High idle rpm : 2.850 rpm

Low rôle rpm : 850

Fuel injection pump : Bosch type mini pump

Cylinder sloove : Dry

Air Cleaner : Dry Filter element,

paper element filtering type.

Exhaust Muffler : Horizontal Round.

Firing order : 1-3-2-4

Accelerator : Hand & Foot Accelerator

ELECTRICAL STARTING AND LIGHTING

Battery Capacity

Starter

:Solenoid Engaged. Key Start with Safety,

: 12 Volt 110AH

staner switch

Alternator

:12V 50A

Instrumentation

:Water Temperature Gauge, Taco meter, Hour meter.

Electrical fuel level gauge

Lighting:

Head lights, side indicators, Rear parking, brake & indicator light, Front parking & indicator light. On dash board indicators for battery charging, turn signal, PTO signal, Engine oil pressure. Preheat signal.

CLUTCH

Type : Dry single plate Outer dia, X Ioner dia, : 10 26 X 6.69°

TRANSMISSION.

Type : synchro mesh

No. of gears :: 12 forward, 12 reverse gears

with high and low selection lever with Differential Luck

Optional No. of gears: 16 forward, 16 reverse.

STEERING : Hydraulic power

(Power steering)

POWER TAKE OFF

Rear mounted : 6 splines

Diameter : 1 # in.

Standard PTO: ①540@2,520 engine RPM

@1,000 @2.800 engine RPM

Optional PTO: (0540 (@2,392 engine RPM

(2)700 @2,582 engine RPM @1,000 @2,460 engine RPM

(3)1,250 (3)2,460 engine RPM

BRAKES

Foot operated, independent with provision of inter luck for simultaneous operation. A foot brake is fitted for parking.

Disc Diameter : 7.24 in Reduction ratio : 5.5

Number of lining : 4 each side Total brake thickness : 2,299 in

HYDRAULIC SYSTEM

Independent fully"Live"bydrautic pump and separate reservoir.Position controls with isolating & response control

Working Pressure 2,400 lbs/ in² to

2,600 lbs/ in2

Max Lifting Force at

Lower Link hisch point : 2,865 lbs

Pump output (Standard) : 7.87 US gal/min.

(Option) : 9.2 US gal/min.

3 point linkage : category l

adjustable outside check chains.

▶ MAIN SPECIFICATIONS.

	Mode	T430/T450	
	Overall leng	ph (mm)	3,360(132")
ا ج	Overall wid		1.530 (60")
	Overall heig	-	2.230 (88")
Dimensions	Distance be		1,800 (70,9")
	shafts(mm)	 ·	
	Tread(mm)	Front	1,284-1,432 (46.9"~56.37")
		Rear	1,170-4480 (46.1"-58.3")
	Least groun	d elearance (mm)	330 (13")
	Weight	(kg)	1.690 (3769 tbs)
	Name		V2203-M
	Туре		When coaled 4 cycle diesel engine
	Displacement (CC)		2,197
Eρ	Output/speed(PS/rpm)		43/2600
Engine	Fuel		Diesel fuel
	Fuel tank capacity		358(9.25 US gel)
	Starting system		Sharting with enolog
l'ire		Frant	8-16-4 PR
		Rear	13.6-24-4PR
Body	Clut	eli system	Dry single type
	Brak	ing system	Wet disc type
	Steer	ing system	Hydraulic
	Dis	ff system	Bevel gear(Diff-lock)
	Shift method		Synchromesh
Minimum turning radius(m)		3.1 (122")	
Shifting	Forv	4aið	12 stages (16stages)
stages	Rev	erse	12 stagest lifestages)
P70	Shas	ն (mm)	Ø35(14).6 splines
Lifter	Con	tral	Position ,Draft
	Моз	acting	CAT Lippe

Jinear	Sub shift	tijus ui 8K	Forward (mile/h)	Reveise (क्रांक्रिक)
F	. r	٦	0.21	0.19
(R)	r	2	0.29	0.27
i		3	0.40	0.36
		4	0.52	0 48
	_	-	0.63	0.58
		2	0.89	0.81
		3	1.20	1.10
		4	1.58	1.44
	M	_ 1	1.75	1.60
		2	2.46	2.25
		3	3.33	3.04
		4	4.37	3.99
	н	1	5.89	5.38
	 	2	8.27	7.56
		3	11.21	10.24
		4	14.70	13.44

^{*}The specifications are subject to change for improvement without notice

FUEL SAVING TIPS

In save fuel & oil in your tractor, following things should always he kept in mind.

A) Air cleaning system

- 1) Clean the air cleaner regularly so that dust does not settle down,
- 2) For every 50 hours & everyday in sandy/dusty conditions.
- (a) Clean the air cleaner filter element with compressed air.
- (b) If the rubber ring is out or expanded then change it with an appropriate one. Fix the rubber at the proper location & check for leakages if any.
- (c) If air is leaking through the hose connection, check & rectify other leakages, top,

Note: If air cleaning system is not properly maintained, it will lead to early wear of piston rings & sleeves. This will lead to problems like loss of engine power,, excessive oil consumption fuel consumption.

B) Engine

- put the engine oil on load after the engine is heated & the water temperature gauge indicates
 the needle to be in the green zone.
- If excessive black smoke is visible, then the paper element of air cleaner, Fuel injection Pump or nozzles should be checked.
- Do not run the engine without load for more than 2 minutes. It is better to stop the engine rather than run it idle. This will help in saving of fuel.

C) Clutch & Brakes.

- Do not reduce the power of the power of the engine by depressing the clutch halfway. Instead
 use low gear.
- If the Tractor has to be stopped for a long period, it is advisable to bring the transmission in neutral position & release the clutch pedal.
- 3) Do not over ride the clutch & brake pedals.
- 4) While coming down from a slope, reduce the engine throttle & use low gear. Do not depend only on the brakes for stoppage.

D) Fuel system

- 1) Always use filtered diesel for the fuel system
- At the end of the day's working, it is preferable to fill the diesel tank so that it may prevent condensation
- 3) Change the filter, if the system gets choked. Do not change both the filters at the same time. If the above directives are not adhered to, the first injection pump & injection reszzle will lose its life early. Also, it will lead to excessive black smoke & excessive diesel engagnetion.

E) Cooling system.

- Always use recommended grade of oil.
- Everyday before starting the engine, check the oil level with a dipstick & refill between the minimum & maximum level.
- 3) Charge the engine oil. Replace filter & "O" ring, as & when required

F) Cooling system

- 1) Check the fan belt tension regularly. Adjust, If required.
- Check the coolant level in the radiator fins always clean.
- 3)Replace the radiator cap with a genuine cap only, if required.
- Do not remove the thermostat but replace with a new one, if required.
- Do not change the radiator water often.

Note:

- 1) Always stop any fuel or oil leakages.
- 2) Carry out the regular maintenance failure to do so might increase the fuel consumption by 25%.
- Carry out the torque of cylinder head bult & adjustment of valve clearance regularly. Consult
 your dealer for this.
- Check the tire pressure & inflate, as recommended.
- 5) Always buy genuine spares from the authorized Dealer/Distributor
- Always carry out the service of the Tractor by your authorized Dealer/Distributor.

For any other information, contact your nearest Authorized Dealer/Distributor.

FAULT TRACING

	SYMPTOM	CAUSI	REMEDY
	Turning the main switch will not operate the starter	Clutch not pushed in Bangry flat Switch faulty	Push the clutch in Charge or replace the hattery Dealer to repair or replace Contact dealer for repair or replace
!	Starter aperates but not enough to turn the engine	Low battery Bad earth Thick oil	Charge the battery Clean the earth lead and tighten Drain and replace with correct oil
liagine	Starter operates OK but does not start the engane	Air in fuel system Clogged fuel filter No fuel being supplied Glow plug disconnected or not working	Bleed the system Clean or replace both filters Fill tank or turn tap on Contact dealer for repair.
	Engine revolutions are irregular	Air in the fuel system Faulty injector Fuel pipe leak	Bleed the system Comaci dealer for repair.
	The engine stops at low revolution	Pour fuel injection Faulty injection pump Wrong valve clearance Wrong idle setting Faulty injector	Contact dealer for repair
	The engine stops suddenly	Lack of fael Faulty injectors Seized engine due to lack ni oil, the wrong oil or lack of coolant	Fill the tank and bleed the fitcl system Contact dealer for repair
	The engine overheats	Lack of contact Broken or misadjusted fan bett Clogged air filter element Clogged radiator Low oil	Refull with conlant Adjust or replace Clean or replace air filter Clean the core Replace the oil to correct grade

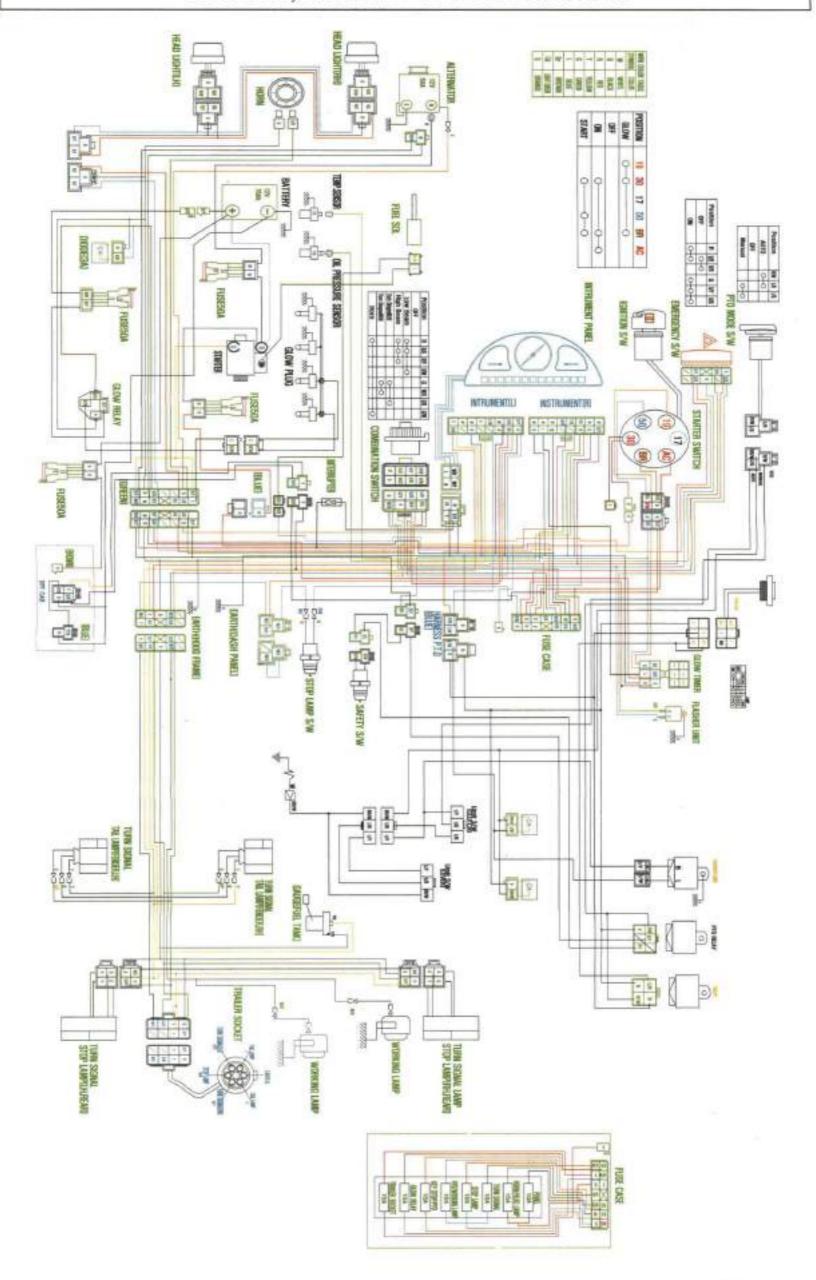
	SYMPTOM	CAUSE	REMEDY
	White smoking from the exhaust	Oil level too high Shortage of or faulty fuel	Reduce to correct quantity Contact dealer for repair
Engine	Reduced perfumnance of the engine	The injectors are clogged, carbon chated and sticking Low compression. Leaking valve seat Incorrect valve gap. Faulty timing. Fuel shortage. Clogged air eleaner.	Contact dealer for repair Fill the tank and check fuel quality Clean the element
	Oil warning light comes on with the origina running	Low oil level Wrong oil Faulty light or switch Clogged oil filter	Fill to correct level Change to correct oil Replace faulty part Contact dealer for repair
	Alternator light comes on with the engine running	Wiring fault Faulty alternator Low water level or faulty battery Broken or loose fan hell	Contact dealer for repair Contact dealer for repair Top up or replace Replace or adjust

	SYMPTOM	CAUSE	REMEDY
_	The clutch slips	Incorrect adjustment	Adjust to correct free play
Clutch		Worm or burnt lining	Contact dealer for repair
	The clutch does not disengage	Incorrect adjustment Rusty clutch lining	Adjust to correct free play Contact dealer for repair
Brake	Brake nut working	Incorrect free play Worm or burnt lining Left and right gap different	Adjust to correct free play Contact dealer for repair Equalize
	Brake pedal not returning	Faulty return spring Lack of grease on the joints	Replace spring Remove rust and lubricate with grease
Hydraulic system	Hydraulies are not lifting	Engine revs not low Lack of transmission Oil Air leaking in from a pipe Clogged suction filter Faulty pump Faulty hydraulic valve l'autty cylinder	Increase engine revs Top up the oil to the correct level Repair of replace pipe or replace O ring on joint and tighten Clean and change oil Contact dealer for repair Contact dealer for repair
	Oil leak from pipe	Loose pipe joint Cracked pipe	Tighten joint Replace or repair pipe
	When lifting the relief valve whistles	The stopper has slipped down	Adjust the stopper

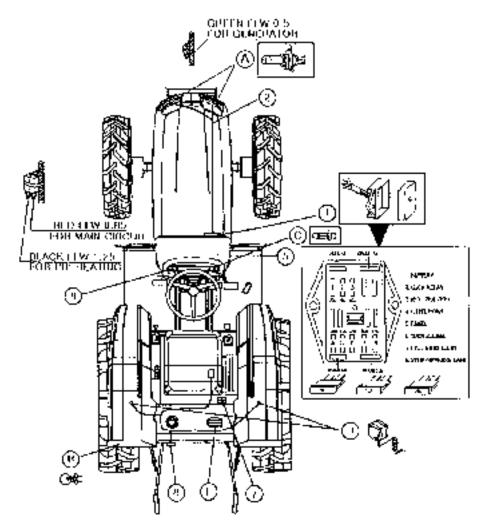
For any other hydraulic problems please consult your dealer who has the correct equipment to diagnose and repair the system

	SYMPTOM	CAUSE	REMEDY		
Steering	Steering wheel shaking	Wrong the-in Unequal tire prossure Loose component	Adjust foe-in Inflate both to correct pressure Tighten or replace if worn		
- #ë	Excessive play in the steering	Worn steering shaft Worn components	Contact dealer for repair Contact dealer for repair		
	Flat battery	Faulty waring Faulty alternator Faulty regulator Broken or loose fan beb	Repair, reconnect or tighten us needed Contact dealer for repair Contact dealer for repair Replace or adjust		
	Before anything else, check the electrolyte level of the battery and the connections, for up it required and clean and retighten the terminal				
Electr	Dim head lights	Low battery Faulty wiring	Charge or replace Repair or replace as needed		
Electric instruments	Headlights not working	Blown buth Blown fuse Faulty contact	Replace butb Replace fuse Repair or replace and check the earth		
	Horn not working	Faulty born button Faulty wiring Faulty born	Replace button Repair or replace Replace		
	Indicator not working	Blown bulb Faulty flasher unit Faulty wrring	Replace bulb Replace unit Repair or replace		

T390/T400,T430/T450 WIRING DIAGRAM



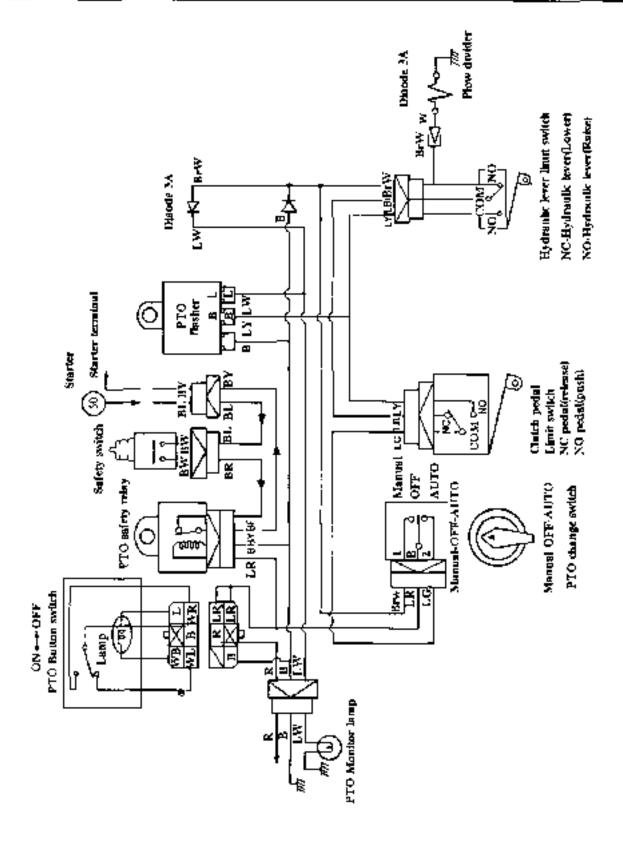
- ▶ Drawing for fixing position of the fuse.
- ▶ Wiring diagram of the electric instrument



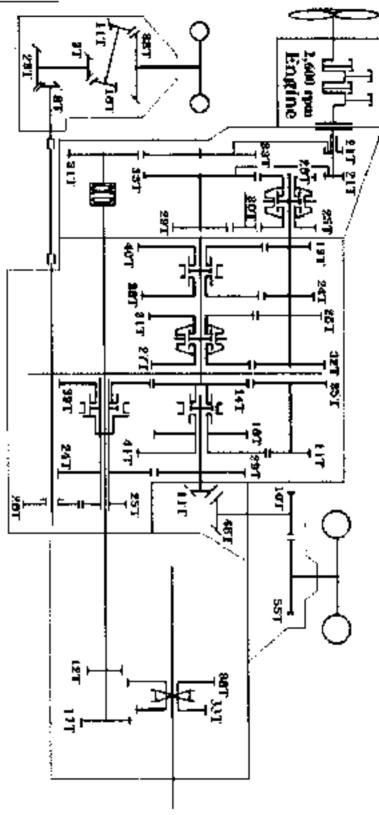
I	Fuse hox
2	3 preces of fase blinks
٦	Power for the working
5	Units for direction Signal relay for the power
6	PTO monitor PTO safety relay
7	Coupler for the power Max raied ampere
8	Coupler for the trailer

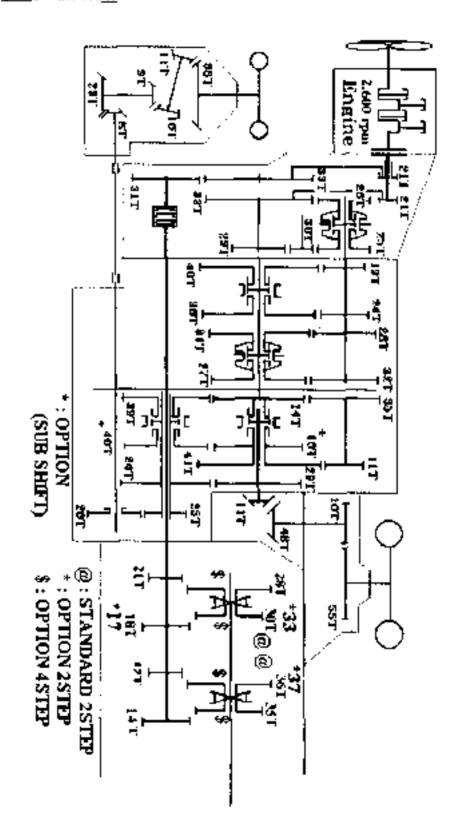
٨	Head Jamp	12V45/45W
B	Direction signal lamp	12V21W
	Stop lamp back light	21/5W
С	Meta panel light	12V3.4W
D	Working tamp	12 V35W
F.	Direction signal lamp	12V21W
	Side lamp	21V5W
F	Back lamp	12V20W

Wiring diagram of Independent PTO



☐ T390/1400 POWER TRAIN





TRACTOR HISTORY CARD

DATE	JOB CARD NO.	NATURE OF DEFECT	PARTS REPLACEMENT	W/CLAIM NO, AND DATE	REMARKS
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SERVICE RECORD

DATE	TRACTOR HOURS	NATURE/TYPE OF REPAIR/SERVICE CARRIED OUT
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DAILY OPERATION LOG

DATE	JOB DONE	MACHINE HOURS		FUEL	ENGINE	
		START	END	CONSUMPTION	OIL TOPPED UF	REMARKS
			!			
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	i		<u> </u>	•	•	

PART REPLACEMENT RECORD

DATE	PART DESCRIPTION	QTY	CO83	DATE	PART DESCRIPTION	QTY	COST
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T390/T400,T430/T450

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