TYM

OPERATOR'S MANUAL FOR TRACTORS

T354



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YANMAR WARRANTIES

YANMAR LIMITED WARRANTY

What is Covered by this Warranty?

YANMAR warrants to the original retail purchaser that a new YANMAR TNV common rail series industrial engine will be free from defects in material and/or workmanship for the duration of the warranty period.

Note: YANMAR engines may be equipped with external components including, but not limited to: wiring harnesses, electrical devices, control panels, radiator, air filters, fuel/or exhaust systems that are supplied and/or installed by manufacturers other than YANMAR. For warranty information on such external components, please contact the machine or component manufacturer directly or see your authorized YANMAR dealer or distributor.

This warranty is provided in lieu of all other warranties, express or implied. YANMAR specifically disclaims any implied warranties of merchantability or fitness for a particular purpose, except where such disclaimer is prohibited by law. If such disclaimer is prohibited by law, then implied warranties shall be limited in duration to the life of the express warranty.

How Long is the Warranty Period?

The YANMAR standard limited warranty period runs for a period of **twenty-four (24) months or Two-thousand(2000) engine operation hours,** whichever occurs first. An extended limited warranty of thirty-six(36) months or three thousand(3000) engine operating hours, whichever occurs first, is provided for these specific parts only: the cylinder block, cylinder head, crankshaft forging, connecting rods, flywheel, flywheel housing, camshaft, timing gear, and gear case. The warranty period for both the Standard limited warranty and the extended limited warranty (by duration or operation hours) begins on the date of delivery to the original retail purchaser and is valid only until the applicable warranted duration has passed or the operation hours are exceeded, whichever comes first.

YANMAR limited warranty- continued

What the Engine Owner must Do:

If you believe your YANMAR engine has experienced a failure due to a defect in material and/or workmanship, your must contact an authorized YANMAR industrial engine dealer or distributor within Thirty (30) Days of discovering the failure, You must provide proof of ownership of the engine, proof of the date of the engine purchase and delivery, and documentation of the engine operation hours. Acceptable forms of proof of delivery date include, but are not limited to: the original warranty registration of sales r eceipts or other documents maintained in the ordinary course of business by YANMAR dealers and/or dis tributors, indicating the date of delivery of the YANMAR product to the original retail purchaser, This in formation is necessary to establish whether the YANMAR product is still within the warranty period. Thus, YANMAR strongly recommends you register your engine as soon as possible after purchase in order to facilitate any future warranty matters.

You are responsible for the transportation of the engine to and from the repair location as designated by YANMAR.

To Locate an Authorized YANMAR Industrial Engine Dealer or Distributor:

You can locate your nearest authorized YANMAR industrial engine dealer or distributor by visiting the YANMAR Co., Ltd. Website at:

http://www.yanmar.co.jp (The Japanese language page will be displayed.) For English language "click" on "English Page.")

• "click" on "Network" in the website heading to vies the "YANMAR Worldwide Network."

• Choose and "Click" on the desired product group.

• "Click" on the Icon closest to your region.

• "Click" on the desired country or associate company to locate your nearest authorized YANMAR Industrial engine dealer or distributor.

You may also contact YANMAR by clicking on "Inquiry" in the website heading and typing in your Question or comment.

What YANMAR will DO:

YANMAR warrants to the original retail purchaser of a new YANMAR engine that YANMAR will make such repairs and/or replacements at YANMAR's option, of any part(s) of the YANMAR product covered by this warranty found to be defective in material and/or workmanship. Such repairs and/or replacements will be made at a location designated by YANMAR at no cost to the purchaser for parts or labor.

YANMAR limited warranty- continued

What is no Covered by this Warranty?

This warranty does not cover parts affected by or damaged by ant reason other than defective materials or workmanship, including, bur not limited to, accident, misuse, abuse, "Acts of God," neglect, improper installation, improper maintenance, improper storage, the use of unsuitable attachments or parts, the use of contaminated fuels, the use of fuels, oils, lubricants, or fluids other than those recommended in your YANMAR Operation Manual, unauthorized alterations or modifications, ordinary wear and tear, and rust or corrosion. This warranty does not cover the cost of parts and/or labor required to perform normal/scheduled maintenance on your YANMAR engine. This warranty does not cover consumable parts such as, but not limited to, filters, belts, hoses, fuel injector, lubricants and cleaning fluids. This warranty does not cover the cost of form the warranty repair facility.

Warranty Limitations:

The foregoing is YANMAR's only obligation to you and your exclusive remedy for breach Of Warranty. Failure to follow the requirements for submitting a claim under this warranty may result in A waiver of all claims for damages and other relief. In no event shall YANMAR or any authorized Industrial engine dealer or distributor be liable for incidental, special or consequential damages. Such consequential damages may include, but not be limited to, loss of revenue, loan payments, cost of rental of substitute equipment, insurance coverage, storage, lodging, transportation, fuel mileage, and telephone costs. The limitations in this warranty apply regardless of whether your claims are based on breach of contract, tort(including negligence and strict liability) or any other theory. Any action arising hereunder must be brought within one (1) year after the cause of action accrues or it shall be barred. Some states and countries do not allow certain limitations on warranties or for breach of warranties. This warranty gives you specific legal rights, and you may also have other rights which vary Form state to state and country to country. Limitations set forth in this paragraph shall not apply to the

extent that they are prohibited by law.

Warranty Modifications:

Except as modified in writing and signed by the parties, this warranty is and shall remain the complete and exclusive agreement between the parties with respect to warranties, superseding all prior agreements, written and oral, and all other communications between the parties relating to warranties. No person or entity is authorized to give any other warranty or to assume any other obligation on behalf of YANMAR, either orally or in writing.

Questions:

If you have any questions or concerns regarding this warranty, please call or write to the nearest authorized YANMAR industrial engine dealer or distributor or other authorized facility.

EMISSION SYSTEM WARRANTY

YANMAR CO., LTD. LIMITED EMISSION CONTROL SYSTEM WARRANTY – USA ONLY

Your Warranty Rights and Obligations:

California

The California Air Resources Board (CARB), the Environmental Protection Agency (EPA) and YANMAR Co,. Ltd. hereafter referred to as YANMAR, are pleased to explain the **emission control system warranty** on your industrial compression-ignition engine. In California, model year 2000 or later off-road compression-ignition engines must be designed, built and equipped to meet the state's stringent anti-smog standards. In all states, 1998 and later non-road compression-ignition engines must be designed, built and equipped to meet the state's stringent anti-smog standards. In all states, 1998 and later non-road compression-ignition engines must be designed, built and equipped to meet the United States EPA emissions standards. YANMAR warrants the emission control system on your engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your engine.

Your emission control system may include parts such as the fuel injection system, the air induction system, the electronic control system, EGR(Exhaust Gas Recirculation) system and Diesel Particulate Filter. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, YANMAR will repair your non-rod compression-ignition engine at no charge to you including diagnosis, parts and labor.

Manufacturer's Warranty Period:

The model year 1998 or later certified and labeled non-road compression-ignition engines are warranted for the periods listed below. If any emission-related part on your engine is found to be defective during the applicable warranty period, the part will be replaced by YANMAR.

If your engine is certified as	And its maximum Power is	And its rated speed is	Then its warranty period is
Variable speed or Constant speed	kW<19	Any speed	1,500 hours or two (2) years whichever comes first. In the absence of a device to measure the hours of use, The engine has a warranty period of two(2) years.
Constant speed	$19 \le kW < 37$	3,000rpm or higher	1,500 hours or two (2) years whichever comes first. In the absence of a device to measure the hours of use, The engine has a warranty period of two(2) years/
Constant speed	$19 \le kW < 37$	Less than 3,000rpm	3,00hours of five (5) years whichever comes first. In the absence of a device to measure the hours of use, the Engine has a warranty period of five(5) years.
Variable speed	$19 \le kW < 37$	Any speed	3,000 hours or five (5) years whichever comes first. In the absence of a device to measure the hours of use, the engine has a warranty period of five (5) years.
Variable speed or Constant speed	$kW \ge 37$	Any speed	3,000 hours or (5) years whichever comes first. In the absence of a device to measure the hours of use, The engine has a warranty period of five (5) years.

Limited emission control system warranty - USA only - continued

Warranty Coverage:

This warranty is transferable to each subsequent purchaser for the duration of the warranty period. Repair or replacement of any warranted part will be performed at an authorized YANMAR industrial engine dealer or distributor.

Warranted parts not scheduled for replacement as required maintenance in the operation manual shall be warranted for the warranty period. Warranted parts scheduled for replacement as required maintenance in the operation manual are warranted for the period of time prior to the first scheduled replacement. Any part repaired or replaced under warranty shall be warranted for the remaining warranty period.

During the warranty period, YANMAR is liable for damages to other engine components caused by the failure of any warranted part during the warranty period.

Any replacement part which is functionally identical to the original equipment part in all respects may be used in the maintenance or repair of your engine, and shall not reduce YANMAR's warranty obligations. Add-on or modified parts that are not exempted may not be used, The use of any non-exempted add-on or modified parts shall be grounds for disallowing a warranty.

Warranted Parts:

This warranty covers engine components that are a part of the emission control system of the engine as Delivered by YANMAR to the original retail purchaser, Such components may include the following:

- Fuel injection system
- Electronic control system
- Cold start enrichment system
- Intake manifold
- Turbocharger systems
- Exhaust manifold
- EGR system
- Positive crankcase ventilation system
- Hoses, belts, connectors and assemblies associated with emission control systems
- Exhaust gas after treatment (Diesel Particulate Filter (DPF)

Since emissions-related parts may vary slightly between models, certain models may not contain all of These parts and other models may contain the functional equivalents.

Limited emission control system warranty - USA only - continued

Exclusions:

Failures other than those arising from defects in material and/or workmanship are not covered by this warranty. The warranty does not extend to the following: malfunctions caused by abuse, misuse, improper Adjustment, modification, alteration, tampering, disconnection, improper or inadequate maintenance or use Of non-recommended fuels and lubricating oils; accident-caused damage, and replacement of expendable Items made in connection with scheduled maintenance. YANMAR disclaims any responsibility for Incidental or consequential damages such as loss of time, inconvenience, loss of use of equipment/engine Or commercial loss.

Owner's Warranty Responsibilities:

As the engine owner, you are responsible for the performance of the required maintenance listed in Your owner's manual. YANMAR recommends that you retain all documentation, including receipts, covering maintenance on your non-road compression-ignition engine, but YANMAR cannot deny Warranty solely for the lack of receipts, or for your failure to ensure the performance of all scheduled maintenance.

YANMAR may deny your warranty coverage of your non-road compression-ignition engine if a part has Failed due to abuse, neglect, improper maintenance or unapproved modifications. Your engine is designed to operate on diesel fuel only. Use of any other fuel may result in your engine no Longer operating in compliance with applicable emissions requirements.

You are responsible for initiating the warranty process. You must present your engine to a YANMAR dealer As soon as a problem exists. The warranty repairs should be completed by the dealer as expeditiously as Possible. If you have any questions regarding your warranty rights and responsibilities, or would like Information on the nearest YANMAR dealer or authorized service center, you should contact YANMAR America Corporation.

Website: (www.yanmar.com) E-mail: CS support@yanmar.com Toll free telephone number: 1-800-872-2867, 1-855-416-7091

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 manufacture'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.



CALIFORNIA Proposition 65 Warning

The Engine Exhaust from this product contains chemicals known to the state of California to cause cancer, birth 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			
Danger	Serious hazard with a very high level of risk of either serious injury or death			
Warning	Hazard or unsafe practice that can lead to severe injury or death.			
Caution	Hazard or unsafe practice that can lead in injury or death.			
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 Tractor.

Your Tractor 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.

TYM 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 INTRODUCTION

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

A Tractor is required to pull or haul 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 storage 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, FRONT 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 B)

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 A



► DESCRIPTION

General construction

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

Front Axle & Wheels

The 4WD front axle is a center-pivot, reverse Eliot type.

The front wheel drive mechanism is incorporated as a part of the axle.

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 YANMAR ENGINES(3TNV88C-KKTF).

Clutch and Transmission

A single plate dry clutch (8.86" 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 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 Battery is used to activate the Engine through the Starter Motor and the Electrical system comprising Horn, Head Lamp, Turn signal lamp, Taco-meter, Hour meter, Brake lamp, Gauge lamp, Hazard Lamp.

General 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.,LTD. 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 equipped with a frame for the protection of operators.

In the case of cab tractors the frame is incorporated in the cab structure.

The objective of the frame or cab structure is to protect the operator in the event of a roll over and they are designed to support the entire weight of the tractor in that event.

Each TYM ROPS frame or cab structure is designed and has been tested to meet industry and or Government standards.

Included in these tests were all mounting bases and bolts or other fasteners.

DANGER

For ROPS frames to be effective and protect the operator, the seat belt provided must be worn in order to keep operators within the ROPS protected area in the event of a roll over. Failure to use the seat belt can still cause serious injury or death.

On some models the ROPS frame has a fold down feature, which can be used to enter low buildings etc.

Take care when lowering the upper section of the ROPS frame and take extreme care while driving the tractor with the ROPS frame lowered.

Do not wear the seat belt with the ROPS lowered and please remember that the fold down facility is for special circumstances only and must not be lowered for general use.

Use of the tractor with the ROPS lowered can cause fatal injuries.

As the ROPS frame or cab together with the seat belt was designed to meet certain standards, they must be maintained in good order and condition.

To achieve this objective, both the structure and the seat belt should be inspected on a regular basis (every time the tractor is serviced)

In the event that the seat belt is damaged or frayed, it should be replaced and in the event that the ROPS frame or any part of the mounting structure is damaged or cracked, the faulty component must be replaced with a new unit.

Such a unit must meet all of the test criteria of the original unit.

Fitment of an inferior item or items affects the certification of the entire ROPS structure and the effectiveness of the structure in the event of an accident.

Drilling or welding of the ROPS structure is forbidden.

► 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



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 low overhead objects. Make sure there is sufficient overhead clearance for the ROPS fatal injuries



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



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

How to adjust the Seat



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

■ Sliding Seat type

Lift lever (A) and slide the seat to the position you want. Release the lever.

Make sure the seat is locked in position.

■ Damping Seat type

Lift lever (A) and slide the seat to the position you want. Release the lever.

Make sure the seat is locked in position. Turn knob (B) to adjust the height of the seat.

Turn lever (C) to adjust the damping effect of the seat.

The adjustment required will be dependant on the operator's weight.



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



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

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.







CAUTION



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 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 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.



The seat belt must be worn during machine operation when the machine is equipped with a certified ROPS.

Failure 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 rocks 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 thrown off of the Tractor





HANDLE FUEL SAFELY-AVOID FIRES

Handle fuel with care; it is highly flammable. 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 rotating shaft can cause serious injury or death.

Keep PTO shield in place at all times.

Wear close fitting clothing. Stop the engine and be 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 unless prohibited by state or local regulations.

Use slow moving vehicle (SMV) sign when driving on public road during 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 rotating 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 cable(-) before making adjustments on

electrical systems or welding on Tractor







AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Keep hands 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 eyes.

For adequate safety always;

1.Fill batteries in a well-ventilated area.

2. Wear eye protection and acid proof hand gloves

3. Avoid breathing direct fumes when electrolyte is added.

4. Do not add water to electrolyte as it may splash off causing severe burns.

If you spill acid on yourself;

1.Flush 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 get caught, severe injury could result.

Remove rings and other jeweler to prevent electrical shorts and entanglement in moving parts.



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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.
- 2. 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 attending to Safety Starter Switch or any other work on Tractor.

SAFETY STARTER SWITCH

- 1. 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.
- 2. Do not By-pass this safety starter switch or work on it. Only Authorized Dealers are recommended to work on safety starter switch.
- 3. On some models Safety Starter switch is provided on transmission High-low shifter lever and in PTO shifter lever. The tractor can be started only if High-low shifter lever 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.

Beyond this point it is the responsibility of the operator 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 tired 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 ear 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 must 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

1. 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.

- 2. Ensure tire pressure are even and the correct pressure for the job being done is maintained.
- 3. 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.
- 5. 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 gases 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 chocked.
- 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 an open flame or with an overheated engine. Ensure to turn off Engine 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 steam 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

- 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 balanced or use proper ballast to achieve balance.
- (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 wil 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 hill 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.

- (13) Take care when traveling uphill with a heavy implement to ensure that it does not overbalance and tip up the front end.
- (14) Never remove or modify the seat belt.
- (15) Never remove, 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 certain 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

- 1. Read the operator's manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
- Use an approved rollover bar 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 protection.
- 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 extra riders.
- 7. Replace all missing, illegible or damaged safety signs.
- 8. Keep safety signs clean of dirt and grease

Servicing the Tractor

1.Keep the tractor in good operating condition for your safety.

An improperly maintained Tractor can be hazardous.

- 2. 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 smoke 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.

- 6. Keep open flame away from battery or cold weather starting aids to prevent fire or explosions.
- 7. Do not modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor functions

Operating the tractor

- 1. 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 fitted) and the transmission in neutral.
- 2. Do not start the engine or controls while standing besides the tractor.

Always sit on the tractor seat when the engine or operating controls.

3. 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 in neutral position for completing the starting circuit.

Do not bypass the safety starter switch.

Consult your TYM Tractor Dealer/Distributor if safety- starting switch malfunctions.

4. 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 tractor 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 fumes 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.

10. Pull only from the swinging draw bar or the lower link drawbar in the down position.

Use only a drawbar pin that locks in place.

Pulling from the tractor rear axle carriers or any point above the rear axle may cause the Tractor's front end to lift.

11. 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 safely 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 knob of fuel shut off control rod.

Driving the tractor

- 1. Watch where you are going especially at row ends, on roads, around trees and low hanging obstacles.
- 2. 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.
- 3. Lock the tractor brake pedals together when transporting on roads to provide proper wheel braking.
- 4. Keep the tractor in the same gear when going downhill as used when going uphill. Do not coast or free wheel down hills.
- 5. 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.
- 7. Always check overhead clearance, especially when transporting the tractor.

■ Operating the PTO (Power Take Off)

- 1. 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.
- 3. When operating stationery PTO driven equipment, always apply the tractor parking brake and block the rear wheels from front 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

- 1. Keep the equipment clean and properly maintained.
- 2. 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 smoke while refueling or when standing near fuel.
- 5. 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.

- 11.Never use fuel for cleaning purpose.
- 12. 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-Fit 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 ventilation.
- 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.

DON'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

► 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.

DECALS ON THE DASH COVER



DECALS ON THE CHASSIS



DECALS AROUND THE SEAT



UNIVERSAL SYMBOLS

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

⌀	Engine speed rev/minX100)	¥	Pressured- open slowly	₽ ⁸ -₽ }*	Corrosive substance
\square	Hours, recorded	\langle	Continuous variable	¢	"Tortoise" Slow or minimum Setting
	Engine coolant temperature		Warning	4	"Hare" fast or maximum setting
<u>[]</u>	Fuel level	\land	Hazard warning	Ŵ	Transmission oil pressure
	Engine Stop control	Ν	Neutral	令令	Turn signal
-\$	Lights	5	Fan	\odot	Transmission oil temperature
\blacktriangleright	Horn	[₩	Power take off engaged	(P)	Parking brake
- -	Engine oil pressure	ſ ₩	Power take off disengaged		Work lamps
<u>\.</u>	Air filter	15	Lift arm/raise		Differential lock
	Battery charge	~ ℃}	Lift arm/lower	Ð	See operator's manual
Rep Rep	gen Request Lamp	S Exh	naust Temp Lamp		

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 (KEY 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

► HEAD LAMP, TURN SIGNAL SWITCH AND HORN

■ HEAD LAMP SWITCH

High and low beam are operated On the main switch

Position ①. Low beam

Position 2. High beam

TURN SIGNAL SWITCH

Pull the turn signal lever down to signal a left turn.

Push the turn signal lever up to signal a right turn.

HORN

Push the Red button.





Head Lamp Switch

► HOUR METER

The hour meter consists of five digits where the last digit indicates 1/10th of an hour

► TACHOMETER

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

► FUEL GAUGE

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

► WATER TEMPERATURE

This comes on when the coolant temperature is over. 110 degreess.

► HAZARD WARNING SIGNAL SWITCH

Push the hazard warning signal once to operate the hazard warning light. (Left and right turn indicators flash). Push the hazard warning light switch again to switch off the hazard warning lights.













►WARNING LIGHTS



Charge lamp

This light will go off as soon as the engine starts to run to indicate that the alternator 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 lamp on Page 32



Fuel Level : If it comes on while the engine is running, Fill the tank with fuel.



High beam lamp is operated on the combination switch.



Low beam lamp is operated on the combination switch



Parking brake lamp is operated when footbrake is engaged.





4WD drive lamp is operated on when front-wheel drive is also engaged.

CHECK Check lamp is operated when the key switch is set to ON position and a safety start condition is not satisfied.



Cruise Control Lamp is operated on when cruise control is engaged.



Air cleaner filter contamination indicator

This comes on when the air cleaner is clogged by foreign materials. When this comes on, open the cover and clean the inside of the cleaner. Also, blow air through the filter in the direction of intake air to clean it or replace the filter with a new one.



Regen Request Lamp See 41Page.



Exhaust Temp Lamp

This lamp is illuminated when the DPF temperature is over 400 degrees.



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

► PTO MONITOR LAMP

- **THE PTO MONITOR LAMP** on the dash panel indicates the state of the PTO shaft.
- 1. If the monitor glows: The PTO is rotating
- 2. If the monitor is off: The PTO is off
- 3. If the monitor blinks: The PTO is presently stationary but will instantly start rotating of the clutch pedal is released or the implements lowered.



PTO monitor Lamp

Two switches operate the independent PTO.

1. PTO ON/OFF SWITCH: PTO ON/OFF switch is

located on the LHS.

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 located 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 on position.



PTO ON/OFFS WITCH	PTO CONTROL SWITCH	CLUTCH PEDAL	HYDRAULIC POSITION CONTROL LEVER.	PTO MONITOR LAMP ON THE DASH PANEL	PTO SHAFT
On	Manual Mode	Either pressed or released	Either raised or lowered	Glows	Rotates
On	Auto Mode	Pressed	Either raised or lowered	Blinks	Stationary
On	Auto Mode	Either pressed or released	Raised	Blinks	Stationary
On	Auto Mode	Released	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.



1. When the PTO control switch is in 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.

Engine Warning Lamp

Regeneration operation and cautions

Lamp functions





RegenReqLamp ExhaustTempLamp Engine Warning Lamp

RegenAck Lamp RegenDisable Lamp & RegenReqSW & RegenDisableSW

► Automatic regeneration

The regeneration process is automatically being performed when the exhaust temperature lamp comes on during work.

Disable switch

aution

Press this switch to stop automatic regeneration.

Run the system in a well-ventilated area to secure your safety. If running the system in a poorly-ventilated area, such as greenhouses, it can lead to gas poisoning.

▶ It is necessary to activate the regeneration function manually if the engine warning lamp and regeneration request lamp are illuminated during work.

1. Stop working and park the vehicle on level ground or in a safe place.





RegenReqLamp













Never move the vehicle to another place during regeneration process. Sudden movement can result in an accident.



- Before starting regeneration, apply the parking brake and idle the engine.
 Then, the ACK lamp blinks. However, the regeneration process is not performed if the regeneration activation conditions are not satisfied.
- 3. Press and hold the ACK button for 3 seconds and release it.

Then, the ACK lamp and exhaust temperature lamp are illuminated and the engine speed is increased up to 2200 RPM to perform the regeneration process for approx.

30 minutes.



4. As soon as the regeneration process is completed, all the lamps are turned off.

► TRACTOR CONTROLS



Lower Speed Control Knob

Differential Lock Pedal

► THROTTLE LEVER (HAND THROTTLE)

The hand operated throttle lever is located on the RHS of the Dash cover.

To increase the engine speed, Pull the lever downward.

To decrease the engine speed, Push the lever upward.

The Lever can be left in any position between idle and maximum as required.

► SPEED CONTROL PEDAL

The Speed Control Pedal is located in RHS of the Operator floor. Depress the forward speed control pedal to move forward. Depress the reverse speed control pedal to move backward. The speed control pedal will return in neutral position and the tractor will stop when the speed control pedal is released.





Clutch Pedal

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► CLUTCH CUT-OFF 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.







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.



► ACCELERATION PEDAL

This pedal can override a fixed hand throttle setting

► PARKING BRAKE LEVER

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 parking brake on will damage the brakes.

► SHUTTLE SHIFT LEVER

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

- ① Push the lever away from the driver engages forward.
- 2 Pulling the lever towards the driver engages reverse.



Sub Gear Lever



Always stop the tractor before getting off.

► MAIN GEAR LEVER

The Main Gear Lever is located on the RHS of the operator.

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

► SUB GEAR LEVER (RANGE SHIFT LEVER)

The Main Gear Lever is located on the RHS of the operator. Operate the sub gear lever using clutch to select the appropriate speed for different applications.





(Range Shift Lever) 00

Main Shift Lever

Main gear lever

Sub gear lever (Range Shift lever)



► FRONT WHEEL DRIVE LEVER (4WD)

The Differential Lock Pedal is located below the LHS of the Operator.

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.





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 SEAT

To adjust the seat backwards and forwards lift the lever at

the front of the seat and set it to the desired position (Please refer to page 11 of how to adjust the seat)

Seat Belt

-Release the Seat Belt

Press button C and Pull the Male Fitting A from the Buckle B.

-Adjusting the Seat Belt

Make Sure the belt is across your hip and not over your stomach.

To adjust the male fitting \mathbf{A} :

- 1. Pull toggle \mathbf{D} down the strap by the required distance.
- a. To make the strap longer, pull end ${\bf E}$ as far as it will go.
- b. To make the strap shorter, pull end ${\bf F}$ as far as it will go.





important

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

► TILT LEVER

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



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

► PTO SELECTION LEVER

Your tractor is equipped with 2 Speed PTO to suit range of applications and conditions.

MODEL	POSITION	1 st	2 nd
T354	REAR PTO	540 rpm	1000 rpm

* Rear PTO Lever is located on the LHS of Operator.



Rear PTO Lever
- 2 10



Always use the clutch when engaging or disengaging the PTO or changing PTO speed.

Let the PTO driven implement come to a complete stop before changing.



► OPERATING THE HYDRAULICS

The hydraulics are powered with an engine driven hydraulic pump and controlled with a position control lever mounted beside the driver.

► HYDRAULIC POSITION CONTROL LEVER

Hydraulic Position Control Lever is located on the RHS of operator.

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 (**A**) can be set to ensure that the implement returns to the same depth every time.



To raise the implement : Pull the lever backward. To lower the implement : Push the lever forward.

Hydraulic Position Control Lever



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 .

► LOWERING SPEED CONTROL KNOB FOR THE 3 POINT HITCH

This knob controls the downward speed of the hydraulics three point linkage and is located below the Seat.

To slow the downward speed- Turn the knob clockwise. To increase the downward speed, turn the knob anticlockwise.

To lock the knob clockwise.

Do not over tighten the knob.



Lower Speed Control Knob



Always set the knob to lock 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.

► HYDRAULIC REMOTE CONTROL VALVE LEVER

The Hydraulic Remote Control Valve Lever is located on the RHS of Operator.

Move the lever up or down and hold. This will raise or lower the implement (Rotavator or Hydraulic plow).

Important:

-Do not hold the lever in the "pull" or "Push" position once the remote cylinder has reached the end of the stroke as this will cause oil to flow through the relief valve. 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.

Hydraulic Remote Control Valve Lever



► HYDRAULIC REMOTE CONTROL VALVE COUPLER CONNECTING & DISCONNECTING.

Connecting

- 1.Clean both couplers.
- 2.Remove dust plugs.
- 3.Insert the implement coupler to the tractor hydraulic coupler
- 4.Pull the implement coupler slightly to make sure couplers are firmly connected.

Disconnecting

- 1.Lower the implement first to the ground to release hydraulic pressure in the hoses.
- 2.Clean the couplers
- 3.Relieve pressure by moving hydraulic control levers with engine shut off.Pull the hose straight
 - from the hydraulic coupler to release it
- 4.Clean oil and dust from the coupler, then replace the dust plugs.



► JOY STICK LEVER (IF EQUIPPED)

The Joy Stick Lever is located on the RHS of the Operator. This simple joystick lever can control the use of a front-end loader. And lift-retract, dump-rollback smoothly and act as one handle lever.



NOTE : The Joystick control and valve can also be used for other applications if a front end loader is not fitted.

► SAFETY LOCKING SYSTEM FOR JOYSTICK LEVER

This simple Safety locking system can lock the joy

stick by pushing the Button and unlocked by pulling .





Hydraulic fluid escaping under pressure can have enough force to penetrate the skin. Hydraulic fluid may also infect a minor cut or opening in the skin. If injured by escaping fluid. See a doctor at once. Serious infection or reaction can result if medical treatment is not given immediately. Make sure all connections are tight and that hoses and lines are in good condition before applying pressure to the system. Release all pressure before disconnecting the lines or performing other work on the hydraulic system. To find a leak under pressure use a small piece of cardboard or wood. Never use hands.

► OPERATING THE 3 POINT LINKAGE (TPL)



► ADJUSTMENT OF THE CHECK CHAIN

There should be no clearance (Position A) during implement transport and when working with grades, rollers mowers, seeders, drills and similar implements.

However, a slight play is necessary (Position \mathbf{B}) when working with ploughs, harrows, ditchers, cultivators.

■ Adjustment of the Telescopic stabilizers type

To adjust the check chain move the Telescopic stabilizer to lengthen or shorten the chain

and Fix the Pin as required distance

The stabilizers are intended for limiting or preventing implement side movement.

■ Adjustment of the Turnbuckle type (If equipped)

To adjust the check chain turn the turnbuckle to lengthen or shorten the chain and tighten the lock nut when the correct adjustment is achieved.

* Telescopic stabilizers type



► 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 2^{nd} and 3^{rd} hole from the top.

► ADJUSTMENT OF THE LIFT ROD

Adjust the length of the lift rod by screwing the Adjusting

Handle (Turnbuckle) in or out.

Adjust the length of the lift rod as necessary to set the implement in its working position parallel to the ground.



Lower Link

► ADJUSTMENT OF THE YOKE ROD ON THE LOWER LINK

For different applications change the position of the Yoke rod on the lower link holes as shown and insert the pin in the direction of the arrow.





Only use drawbar to tow and keep the 3 point linkage in raised position when toeing with the drawbar. Position can create unbalance causing the Tractor to roll-over & Result the death or serious injury.

► MOUNTING IMPLEMENT

If the PTO 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. Attach 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



Rear PTO Shaft Cover



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 26.

- (1) Sit on the driver seat
- (2) Apply the footbrake.
- (3) Put the hydraulic lever in the down position.
- (4) Push down the clutch to activate the safety-starting switch.
- (5) Put the main gear lever 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 running.

refer to the fault tracing guide.

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

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,

Only engage the starter for a period of not more than 10 seconds.

Important

Important

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

► STOPPING THE ENGINE

-After light work let the engine idle for a while and turn the key off.



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



► 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.

Temperature	Time for warming up
Above 50°F	5~10 min.
50°F~ 32°F	10~20 min.
32°F~14°F	20~30 min.
14°F~-4°F	30~40 min.
Below –4°F	Over 40 min.

Correct times for warming up are:



Ensure the handbrake (Foot brake) is on during the warming period. Failure to warm up correctly can result in problems.

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.

► STORING ENGINE IN OPERABLE CONDITION FOR 3 MONTHS OR MORE

When the engine is not operated during storage of three months or more, internal engine parts can rust and lose oil film.

As a result, the engine can seize when it is started after storage.

To prevent such a rust, the engine must be operated periodically during storage.



► TIGHT TURNS IN THE FIELD

Disconnect the latch connecting left and right brake pedals

to allow the use of individual pedals.

To make 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, stop the engine, and remove the key.



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.

Warning

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 useful 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.



Use low engine revolutions when using the diff lock.

If the diff lock does not release after removing the foot 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 hot, stop the tractor and check the coolant in the radiator.

► TRAILER SOCKET (Seven Terminal Electrical Socket type)

Trailer Socket is located on the Left of the Rear Side. To operate the Electrical systems of implements, trailer lighting, warning lamp etc.





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. Also allow for the width when passing other road users.

Where fitted use the hazard lights provided.

Strictly follow the local traffic regulations.



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 front wheel assist the front track can be set in 2 position.

The rear track can be set in 5 positions as illustrated.



Lubrication

&

Maintenance

This section gives full details of the service procedures necessary to maintain your Tractor at peak efficiency while 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 be carried out daily before starting the tractor.

For full details of the items and frequency please refer to the tables on page 64,65and 66.

► ENGINE COOLANT

Remove the radiator cap and ensure that the coolant is up to the filler neck and that it is clean with the correct anti-freeze or anti corrosion inhibitor in it. If the coolant is a rusty color, drain the system completely and refill with the correct mixture of water and anti-freeze or corrosion 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 of service interval.





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.





► FUEL

Rear PTO

The Fuel Filler is located on the Rear of the Seat. 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

► TYRE PRESSURE

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 66.

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



T/M Drain Plug

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!

► 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 clutch is adjusted correctly.

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



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

► ELECTRICAL

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

► INSTALLING LOADER

1.Connect P port of loader 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

3.Connect the remaining line from the control valve to the line on the tractor marked P1

(to the transmission housing)

► DETACHING THE LOADER (LOADER VALVE OR LOADER CONNECTING PORT)

- 1.Detach the hydraulic hoses of loader
- 2.Assemble the cap (PF3/8) with pipe comp (PF3/8).



MAINTENANCE AND ADJUSTMENT SCHEDULE

► Periodical check and service table

 \bigcirc Check, Top-up or adjust \bullet Replace

 \triangle Clean or wash

 \star Consult the service Dealer

	Service interval(hour meter,mark)														
Division	Item	Daily	5 0	1 0 0	1 5 0	2 0 0	2 5 0	3 0 0	3 5 0	4 0 0	4 5 0	5 0 0	5 5 0	6 0 0	Comment
	Engine oil and cartridge	0	•				•					•			Every 250Hours After first 50hours
	Air cleaner			\triangleleft		\bigtriangleup		•		\bigtriangleup		•			Refer to 76 page.
	Radiator coolant	0													Check daily top up If required.
	Radiator	0													Check daily for damages leakage
н	Fuel	0													Fill tank
Engine	Fuel filter			0	\bigtriangleup	0	\bigtriangleup	•	0	0	\bigtriangleup	0	\bigtriangleup	•	
	Fan belt	0													Check daily
	Battery			0		0		0		0		0		0	Check daily
	Oil filter		•				•					•			Every 250Hours After first 50hours
	Loose nuts and bolts	0													Check daily, Tighten
	Radiator hose clamp	0													Tighten if required



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

					Serv	ice i	inter	val(hour	met	ter,n	nark)		
Division	Divisi on	Daily	5 0	1 0 0	1 5 0	2 0 0	2 5 0	3 0 0	3 5 0	4 0 0	4 5 0	5 0 0	5 5 0	6 0 0	Comment
	Trans mission oil	0	●						•						Change every 300hours After First 50hours
	Free play of clutch pedal	0													(0.78-1.18in)
	Free play of brake pedal	0													(1.18-1.57)
	State of both brake pedals	0													Adjust so that both operate simultaneously and brake at the same time
	Operation of each lever	0													Smooth operation
Chassis	Free play of steering wheel	0													
sis	Toe-in							*						*	Check every 300hours
	Grease each nipple		0	0	0	0	0	0	0	0	0	0	0	0	Replenish every 50hours (everyday in dusty conditions)
	Check the steering wheel joint	0													Adjust every 300hours
	Wheel nut fastening torque	0													Check daily
	Operation of the instrument	0													

				Serv	ice i	nter	val(hour	me	ter,n	nark)			
Division	Item	Daily	5 0	1 0 0	1 5 0	2 0 0	2 5 0	3 0 0	3 5 0	4 0 0	4 5 0	5 0 0	5 5 0	6 0 0	Comment
	Adjustment of the throttle pedal	0													
	Loose bolts and nuts	0													Tighten to proper torque
Chassis	Hydraulic oil filter		•						•						
	Oil of the 4WD front axle		•		0		0		0		0		0	0	Replace if leaking
	Check the electric wiring	0													Without loose or broken terminals. Without damaged or missing wiring. Correctly clamped

Tyre	DIVISION	SIZE	Air pressure Mpa (PSI)	MODEL
$\mathbf{D}1(\mathbf{A}\mathbf{x})$	Front	7-16, 4PR	0.176 Mpa (25.53 PSI)	
R1 (Ag)	Rear	11.2-24, 8PR	0.235 Mpa (34.08 PSI)	
$\mathbf{D}1(\mathbf{A}_{\mathbf{z}})$	Front	8-16, 4PR	0.157 Mpa (22.80 PSI)	
R1 (Ag)	Rear	12.4-24, 6PR	0.157 Mpa (22.80 PSI)	T354
D4 (Ind)	Front	27X10, 50-15, 8PR	0.414 Mpa (60.04 PSI)	1354
R4 (Ind)	Rear	12.5-20 R4, 12PR	0.310 Mpa (45.00 PSI)	
R3	Front	27X10, 50LL-15, 6PR	0.220 Mpa (31.91 PSI)	
(Turf)	Rear	41X14, 00-20- RL	0.170 Mpa (24.66 PSI)	

► FILLING DIAGRAM & CAPACITY TABLE



- Oil Filler Hole Greasing Point
- ▲ Drains
 - Windows

N o.	Filling point	Fillings	Quantity Liter (gal.)		
		T354			
1	RADIATOR	4.8ℓ(1.27US gal)			
2	ENGINE	API : CF-4 grades CJ-4 Above:25°C(77°F) SAE30 or 15W/40 0°C to 25°C(32°F to 77°F) SAE20 or 10W30 Below 0°C(32°F) SAE 10W or 10W-30	3.2ℓ (0.85 US gal)		
3	TRANSMISSION CASE	See next page *	35ℓ(9.25 US gal)		
4	FRONT AXLE	Gear oil #80 or #90 (API GL-4 grade)			
5	FINAL DRIVE CASE(B)	Gear oil #80 or #90 (API GL-4 grade)	8.2ℓ(2.16US gal)		
6	Clutch pedal shaft	Grease	As required		
7	BALL JOINT	Grease	As required		
8	FUEL TANK	Diesel fuel	33ℓ(8.717 US gal)		

► RECOMMENDED TRANSMISSION OIL

- ① RPM Tractor Hydraulic Fluid or Textron TDH Premium (CALTEX)
- ② TDH Oil or TDH Oil special (TEXACO)
- ③ Chevron 1000THF (CHEVRON)

► OPENING METHOD OF EACH COVER ► OPENING METHOD OF FAN COVER



With the hood up ,the Hook release lever can be removed by pulling downward,

having first detached the hood lamp wiring harness.

Hood can be open by itself.

► FUEL

- Use clean diesel fuel only .
- Use ultra low sulfur fuel only





As diesel fuel 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 FUEL SYSTEM



2. Water separator

- 1) Fill the tank with fuel and turn the ignition key to on.
- 2) Loosen the air breather screw of the fuel filter two or three turns.
- 3) When fuel free from air flows (bubbles) from the Air breather screw, tighten the Air breath screw.
- 4) The bleeding of the system is now finished.

CLEANING OIL WATER SEPARATOR OF FUEL FILTER

If any foreign material or water is seen through the sight glass, remove it by performing the following steps 1. Prepare a container to collect fuel from the oil water separator.

2. Open the drain plug.

3. After a sufficient amount of fuel is drained, tighten the drain plug with a hand.

4. Do not use any tool.



► CHANGING THE OILS IN THE TRACTOR

Always use quality oils as engine or transmission oil Refer to the table on page 61 and 62 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 refill he engine with oil to the correct level on the dipstick (approx. 1.06 US gal) The grade of oil to be used will depend on the ambient temperature. The tractor is shipped from the factory with 15W/40. For summer use over 77°F use SAE 30 For temperatures from 32°F-77°F use SAE20 or 15W/40.

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

- 1. Allow the transmission oil to cool.
- 2. Remove the drain plug from bottom of the transmission and drain the oil.
- 3. Replace and check the drain plug.
- 4. Refill the transmission to the correct level on the dipstick with new oil : Qty $35\ell(9.25 \text{ US gal})$





Always use the same grade and specified oil as Replacements. Dispose off the old oil as per local regulations.
► CHANGING OIL IN THE FRONT AXLE

- 1. Drain the oil from the center diff plug and the drain plug in each drive.
- 2. Replace and tighten all drain plugs.
- 3. Remove the Fill/Lever Plugs from each final drive to vent air from final drives.
- **4.** Remove the dip stick from the filter hole and fill with Front Axle Oil Capacity 8.2ℓ (2.17 US gal) and allow time for the oil to drain into the final drives.
- 5. Check the oil level with the dipstick and replace the Fill/Lever Plugs on both final drives and tighten





► CLEANING AND CHANGING FILTERS

► ENGINE OIL FILTER

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



► HYDRAULIC OIL FILTER AND ENGINE OIL FILTER CARTRIDGE

Remove the filter with a filter wrench. To replace, apply oil or grease on the seal, fit by hand until seal contacts bare, then turn it $2/3^{rd}$ turn further to tighten it check for leaks.

► CHANGING THE COOLANT

- (1) Open the tap in front of the gear pump to drain the coolant.
- (2) Open the radiator cap at the same time.
- (3) To give a thorough clean run a hose 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.

Caution

Serious burns, can result from the contents of pressurized, hot radiators. Allow the engine to cool 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 anti

freeze 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.



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

► GREASING THE TRACTOR

Grease the tractor according to the service schedule (page 65)

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









* Front Axle Ball Joint



Grease Nipple

► GAP ADJUSTMENT

► 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 turnbuckle and adjust. Check the adjustment and tighten the locknut 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

■ Adjusting Method

Loosen the locknuts to adjust the brake.

Turn the Turnbuckle counterclockwise to increases the free play, or turn the Turnbuckle clockwise to decreases. Tighten the locknut and confirm to fix the Nuts. 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 toe-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

Check the Indicator condition Green color – Good condition

Black color – Charging necessary

black color – charging hecessar

White color – Replace battery





Low electrolyte levels can cause premature battery failure and corrosion.



Electrolyte contains acid and can cause serious burns. Any spillage on skin 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 to 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 short 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 fitting the battery. When connecting the battery leads make sure 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

- 1.Loosen the alternator pivot bolt.
- 2. Move the alternator in order to increase or
- decrease the belt tension.
- Tighten the alternator pivot bolt and the link bolt to 22 N.m (16 lb ft)

► SERVICING THE AIR CLEANER

■ Cleaning the Air Cleaner Dust Valve

Check that the Dust Valve is not blocked.

Inspect the rubber flaps for cuts and nicks and check that the rubber is not perished.

Renew if necessary.

To remove dust from the dust valve, squeeze it between thumb and fingers.

Wipe around the dust valve to remove dust collected on the outside.

■ Cleaning/Changing the Element

Release the three clips on the Air Cleaner end cover

and Remove the element.

Remove dust by blowing compressed air through the element.

Check the element for damage, if necessary, change the elements.

Check all hoses for condition and tightness.





Dust Valve



Never beat the element on a stone or concrete floor/wall to clean it. Check all connections and hoses especially on the clean side of the air cleaner 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 fuel 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 components.

Replace or repair any faulty wiring or insulation.

If a fuse burns 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.



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

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 FUSES

The circuit has 8 blade type fuses in its wiring circuit

(See diagram on page 91.)

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.



Fuse Case



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

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 coolant.



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 coolant from the radiator and remove the ignition key.

Attach 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 clutch 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 battery and run the engine at idle for 30 min. to ensure optimum engine life.

Specifications

The specifications on 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 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: T354

		07 F 17 07 F	
ENGINE		CLUTCH	
4-stroke, 4-cylinders	, naturally aspirated,	Туре	: Dry single plate
indirect injection		Outer dia. X Inner d	lia. : 8.86 X 5.9"
Model (YANMAR):	T354		
No. of cylinders	: 4	TRANSMISSION	
Displacement	: 1,642	Туре	: synchro mesh
Bore	: 88mm (3.46 in)	No. of gears	: 12 forward speeds
Stroke	: 90mm (3.54in)		12 reverse speeds with
			high-low selector lever
Compression Ratio	: 19.1		C
Horse Power (Kw)	: 25.5 / 2800rpm	STEERING	
(Manufacturing rating	()		
Rated Speed	: 2,800 rpm	Туре	: Hydraulic power
High idle rpm	: 2950 ±10rpm		(Power steering)
Low idle rpm	: 950 ±10rpm		
Fuel injection pump	: Direct	POWER TAKE O	DEE
Cylinder sleeve	: Dry	Mid mounted	: 6 straight spline
Air Cleaner	: Dry Filter element,	Diameter	: 1 ³ / ₈ in.
	paper element filtering type.	Standard PTO	: 1 st - 540/2,775 engine rpm
Exhaust Muffler	: Horizontal Round.		2 nd - 1000/2783 engine rpm
Firing order	: 1-3-2-1		
Accelerator	: Hand & Foot Accelerator	BRAKES	

ELECTRICAL STARTING AND LIGHTING

Battery Capacity	: 12V 80AH	Α
Starter	: Solenoid Engaged.	
	Key Start with Safety,	0
	starter switch	N
Alternator	:12V 50A	To
Instrumentation	: Hour meter, Tacometer	
	Fuel gauge.	
	Water Temperature Gauge.	
	Warming Lights.	
Lighting:	: Head lights,	
	Turn Signal Indicator Lamp,	
	Rear Parking, Brake Lamp	
	Tail Lamp, Working Lamp	

Foot operated, independent with provision of inter lock for simultaneous operation. A foot brake is fitted for parking. $\cdot 160 \text{ mm} (6.30 \text{ in})$ nner dia

. 100 mm (0.50 m)
: 210 mm (8.23 in)
: 4 each side
: 1.96 in

► MAIN SPECIFICATIONS

- MAIN SPECI	MODEL	T354	
	Maker	YANMAR	
	Model	3TNV88C-KKTF	
Туре		Water cooled 4 cycle 4 cylinder diesel	
	Out put (Kw/rpm)	T354 – 25.5 / 2800rpm	
	Number of Cylinder	4	
	Displacement (cc)	1,642	
	Bore and Stroke	T354 - 88 mm X 90mm	
Engine	Compression ratio	T354 – 19.1	
	Firing order	1-3-2-1	
	Injection pump	Direct	
Lubrication type		Forced circulation	
	Cooling system	Water cooled, Forced circulation	
	Coolant capacity	4.8ℓ(1.27 US gal)	
	Air cleaner	Dry Single Element	
	Muffler	Horizontal	
	Fuel	Diesel fuel	
	Fuel Tank capacity	33ℓ(8.7 US gal)	
Electrical	Battery	12V80AH	
	Starting system	Starter motor with pre-heater	
	Starter Capacity	2.0KW	
Drive Train	Alternator	12V 50A	
	Transmission	Hydraulic, + Mechanical 3 range gear with constant-mesh	
	MFWD(4WD)	Standard	
	Differential lock	Bevel gears with diff-Lock	
	Brakes	Wet disc brake, mechanical	
	Steering	hydraulic	

MODEL			T354
Clutch	Main		Dry single disc, mechanic
	РТ	0	Multiple wet disk
Dimensions	Overall le	ngth(mm)	3350 (131.9")
	Overall w	idth (mm)	1645 (64.76")
	Overall He	eight (mm)	2420 (95.26")
	Wheel ba (Distance bet		1137 (44.76")
	Min. Ground C	learance (mm)	243 (9.57")
	R1	Front	
	KI	Rear	
	R1 Front		8-16, 4PR
	KI	Rear	12.4-24, 6PR
	R4 Front		27X10, 50-15, 8PR
	K4	Rear	12.5-20 R4, 12PR
	R3	Front	27X10, 50LL-15, 6PR
	K3	Rear	41X14, 00-20- RL
		Front	Center pin
	Axle type Rear		Central axle
Implement	Operation		Hydraulic
implement	-	4	3-Point hitch
	Mounting method		
	Drawing method		Trailer hitch
	3-Point hitch category		Category 1
	Hydraulic-control		Position, Remote control, Joystick

	Traveling Speed : Km/hour (mile/hour)			
MO	MODEL		54	
Range shift	Range shift Main shift		Reverse	
	1	0.89	0.80	
Ţ	2	1.22	1.10	
L	3	1.57	1.42	
	4	2.16	1.96	
	1	2.80	2.54	
М	2	3.85	3.49	
М	3	4.95	4.49	
	4	6.83	6.19	
	1	8.95	8.12	
	2	12.29	11.14	
Н	3	15.80	14.32	
	4	21.81	19.78	

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

FUEL SAVING TIPS

To save fuel & oil in your tractor, following things should always be 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 cut 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, too.
- **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

- 1) put the engine oil on load after the engine is heated & the water temperature gauge indicates the needle to be in the green zone.
- 2) If excessive black smoke is visible, then the paper element of air cleaner, Fuel injection Pump or nozzles should be checked.
- 3) 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.

- 1) Do not reduce the power of the power of the engine by depressing the clutch halfway. Instead use low gear.
- 2) 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
- 2) 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 fuel injection pump & injection nozzle will lose its life early.

Also, it will lead to excessive black smoke & excessive diesel consumption.

E) Engine system

- 1) Always use recommended grade of oil.
- 2) 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.
- 2) Check the coolant level in the radiator fins always clean.
- 3)Replace the radiator cap with a genuine cap only, if required.
- 4) Do not remove the thermostat but replace with a new one, if required.
- 5) 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 bolt & adjustment of valve clearance regularly. Consult your dealer for this.
- 4) Check the tire pressure & inflate, as recommended.
- 5) Always buy genuine spares from the authorized Dealer/Distributor.
- 6) 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	CAUSE	REMEDY
	Turning the main switch will not operate the starter	Clutch not pushed in Battery flat Switch faulty	Push the clutch in Charge or replace the battery Dealer to repair or replace Contact dealer for repair or replace
	Starter operates 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
Engine	Starter operates OK but does not start the engine	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 Contact dealer for repair.
	The engine stops at low revolution	Poor fuel injection Faulty injection pump Wrong valve clearance Wrong idle setting Faulty injector	Contact dealer for repair Contact dealer for repair Contact dealer for repair Contact dealer for repair Contact dealer for repair
	The engine stops suddenly	Lack of fuel Faulty injectors Seized engine due to lack of oil, the wrong oil or lack of coolant	Fill the tank and bleed the fuel system Contact dealer for repair
	The engine overheats	Lack of coolant Broken or misadjusted fan belt Clogged air filter element Clogged radiator Low oil	Refill with coolant 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 performance of the engine	The injectors are clogged, carbon coated and sticking Low compression Leaking valve seat Incorrect valve gap Faulty timing Fuel shortage Clogged air cleaner	Contact dealer for repair Contact dealer for repair Contact dealer for repair Contact dealer for repair Contact dealer for repair Fill the tank and check fuel quality Clean the element
	Oil warning light comes on with the engine 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 belt	Contact dealer for repair Contact dealer for repair Top up or replace Replace or adjust

	SYMPTOM	CAUSE	REMEDY
0	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 not 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	Hydraulics are not lifting	Engine revs. too low Lack of transmission Oil Air leaking in from a pipe Clogged suction filter Faulty pump Faulty hydraulic valve Faulty cylinder	Increase engine revs. Top up the oil to the correct level Repair or replace pipe or replace O ring on joint and tighten Clean and change oil Contact dealer for repair 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 wheel	Steering wheel shaking	Wrong toe-in Unequal tire pressure Loose component	Adjust toe-in Inflate both to correct pressure Tighten or replace if worn
άđ	Excessive play in the steering	Worn steering shaft Worn components	Contact dealer for repair Contact dealer for repair
Flat battery		Faulty wiring Faulty alternator Faulty regulator Broken or loose fan belt	Repair,reconnect or tighten as 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. Top up it required and clean and retighten the terminal		
Electric	Dim head lights	Low battery Faulty wiring	Charge or replace Repair or replace as needed
Electric instruments	Headlights not working	Blown bulb Blown fuse Faulty contact	Replace bulb Replace fuse Repair or replace and check the earth
	Horn not working	Faulty horn button Faulty wiring Faulty horn	Replace button Repair or replace Replace
	Indicator not working	Blown bulb Faulty flasher unit Faulty wiring	Replace bulb Replace unit Repair or replace

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





Α	Head lamp	12V/55W/60W
В	Meta panel Light (Instrument)	12V/3.4W
С	Turn Signal Lamp	12V/21W
C	Tail Lamp)	21/5W
D	Stop Lamp	21/5W
D	Turn Signal Lamp	12V/21W
Е	Working Lamp	12V/25W

1	Panel	10A
2	Light / Horn	15A
3	Turn Signal Lamp	10A
4	Stop / Tail Lamp	10A
5	Turn Signal Lamp	10A
6	Controller	15A
7	Engine Stop	10A
8	Fuel pump	10A
9	Coupler	15A

TRACTOR HISTORY CARD

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

SERVICE RECORD

DATE	TRACTOR HOURS	NATURE/TYPE OF REPAIR/SERVICE CARRIED OUT

DAILY OPERATION LOG

DATE	JOB MACHINE HOURS		E HOURS	FUEL	ENGINE OIL	REMARKS	
DATE	DONE	START	END	CONSUMPTION	TOPPED UP	KEMAKKS	

PART REPLACEMENT RECORD

DATE	PART DESCRIPTION	Q'TY	COST	DATE	PART DESCRIPTION	Q'TY	COST

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