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# **OPERATOR'S MANUAL**

# **LIST OF SECTIONS**

**Section 1 - General Information and Safety**

**Section 2 - Controls, Instruments and Operation**

**Section 3 - Field Operation**

**Section 4 - Lubrication and Maintenance**

**Section 5 - Fault Finding**

**Section 6 - Vehicle Storage**

**Section 7- Specifications**

## **IMPROVEMENTS**

*Policy of New Holland Fiat (India) Pvt. Ltd. is based on continuous improvements and the right to change prices, specifications or equipment at any time without notice is reserved.*

*All data given in this book is subject to production variations. Dimensions and weights are approximate only and the illustrations do not necessarily show tractors in standard condition. For exact information about any particular tractor, please consult your Authorised Dealer.*

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# CONTENTS

Title	Page
<b>Section 1 - General Information and Safety</b>	
To the owner .....	1-1
Product identification .....	1-2
Ecology and the environment .....	1-4
Safety precautions .....	1-5
Trailer hitching .....	1-11
Recommended implements and trailer loads .....	1-11
General and safety decals .....	1-12
International symbols .....	1-16
Fuel saving tips .....	1-17
<b>Section 2 - Control, Instruments and Operation</b>	
Operator's Seat .....	2-2
Instrument Panel, Gauges and Warning Lights .....	2-3
Hand Controls and Switches .....	2-5
Roll Over Protective Structure (ROPS) .....	2-7
Seat Belt .....	2-8
Hand Controls, Foot Controls & Throttle .....	2-9
Transmission .....	2-11
<b>Section 3 - Field Operation</b>	
Running-in Procedure .....	3-2
Pre-Operation Checks .....	3-2
Starting the Tractor .....	3-4
Stopping the Engine .....	3-7
Turbo Power .....	3-8
Power Take-Off .....	3-9
Three Point Linkage .....	3-15
Towing Attachments .....	3-20
Hydraulic System .....	3-22
Track Adjustments .....	3-28
Tractor Ballasting .....	3-33
Tyre Inflation .....	3-36
<b>Section 4 - Lubrication and Maintenance</b>	
General information .....	4-1
Lubrication and maintenance chart .....	4-6
10 hour/daily service .....	4-7
50 hour service .....	4-9
300 hour service .....	4-14
600 hour service .....	4-20
1200 hour/12 month service .....	4-22
General Maintenance .....	4-25
Protecting Electronic/Electrical Systems During Battery Charging and Welding .....	4-28

---

## **Section 5 - Fault Finding**

Engine .....	5-2
Hydraulic System .....	5-5
Hydraulic Lift and Three Point Linkage .....	5-5
Electrical System .....	5-6
Brakes .....	5-6

## **Section 6 - Vehicle Storage**

Tractor Storage .....	6-1
Preparation for Use After Storage .....	6-1

## **Section 7 - Specification**

Tractor Dimensions .....	7-2
Tractor Weight .....	7-3
Engine .....	7-4
Cooling System .....	7-5
Clutch System .....	7-5
Power Take Off .....	7-5
Three Point Linkage .....	7-5
Hydraulic System .....	7-5
Electrical Equipment .....	7-6
Steering .....	7-6
Brakes .....	7-6
Lubricants and Fluid Capacities .....	7-7

## SECTION 1

# GENERAL INFORMATION AND SAFETY

### TO THE OWNER

#### GENERAL

This Manual has been prepared to assist you in the correct procedure for running in, driving, operating and for the maintenance of your new tractor. Your tractor, which is designed to power and propel itself, is intended for use in normal and customary agricultural applications.

Read this Manual carefully and keep it in a convenient place for future references. If at any time you require advice concerning your tractor, do not hesitate to contact your Authorised Dealer. He has company trained personnel, genuine manufacturers' parts and the necessary equipment to carry out all your service requirements.

Your tractor has been designed and built to give maximum performance, 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 dealer to ensure that it reaches you in optimum condition. To maintain this condition and trouble-free operation, it is important that the routine services, as specified in Section 4 of this manual, are carried out at the recommended intervals.

#### CLEANING THE TRACTOR

While cleaning the tractor, particularly when using a high pressure tractor washing equipment, precaution has to be taken to safeguard electrical / electronic components and connections. The pressure generated by some of these machines is such that complete protection against water ingress cannot be guaranteed.

While washing the tractor, using a high pressure washing machine, do not stand too close to the tractor and avoid directing the jet at electrical connections, breathers, seals, filler caps, etc. Never direct a cold water jet at a hot engine or exhaust.

#### SAFETY

Pages 5 to 10 include the list of precautions to be observed to ensure your safety and the safety of others. Read the safety precautions and follow the advice offered before operating the tractor.

### FIRST 50 HOUR SERVICE

After you have operated the tractor for 50 hours, take your tractor with warranty booklet to your dealer. He will then perform the manufacturer recommended 50 hour service and complete the service report. **Ensure the completion of the coupon and signature of Service Manager/Dealer.**

#### SERVICE PARTS

It should be pointed out that genuine parts have been examined and approved by the company. The installation and/or usage of 'non-genuine' products could have negative effects upon the design characteristics of your tractor and thereby affect its safety. The Company is not liable for any damage caused by the use of '**non-genuine**' parts and accessories.

Only Genuine New Holland replacement parts should be used. Use of non-genuine parts may invalidate legal approvals associated with this product.

It is prohibited to carry out any modifications to the tractor unless specifically authorised, in writing, by the After Sales Service department of the Company.

#### WARRANTY

Your tractor is warranted according to the current legislation in your country and with contractual agreements reached with the dealer at the time of sale. However, the warranty is no longer valid if the rules and instructions for the use and maintenance of the tractor described in this manual are not observed. For more details on warranty, please refer **Warranty Booklet** supplied along with this manual.

**NOTE:** Reference positions (**Left / Right / Front / Rear**) of Components and Decals indicated in this Operator Manual taken with a view when operator is seated on Operator Seat.

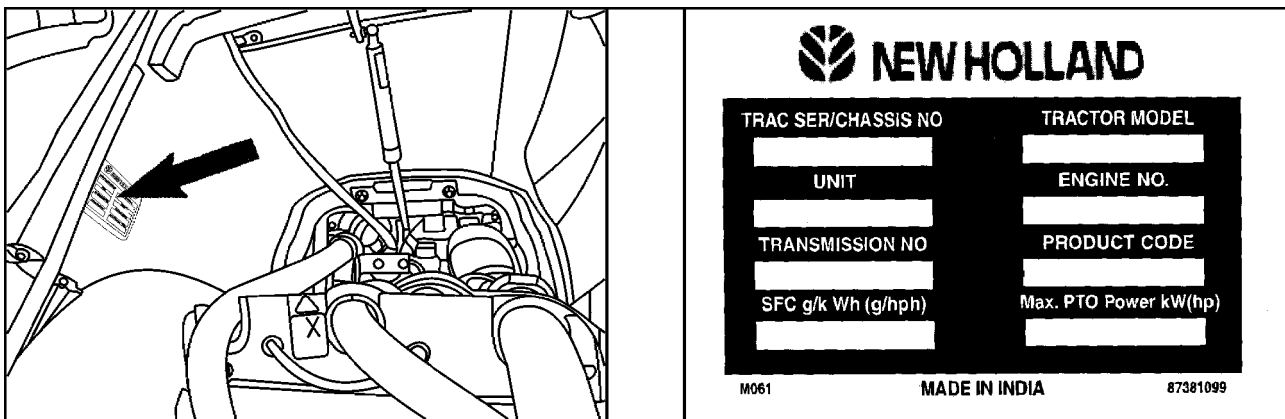
## PRODUCT IDENTIFICATION

### Tractor Identification Decal

**Figure 1**

**Location - Right Hand Side - Inside the Front Hood**

The first line represents tractor serial number and model while the second line represents unit code and engine serial number followed by third line representing transmission serial number and product code. Record the information in Figure (1) for quick reference.

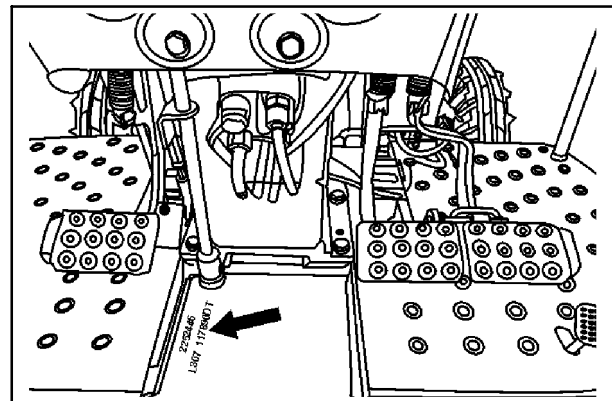


1

### Tractor Identification Location (stamped)

**Figure 2**

Tractor serial number and unit code are stamped on top of the master clutch housing. These numbers are also repeated on the vehicle identification decal as shown above.



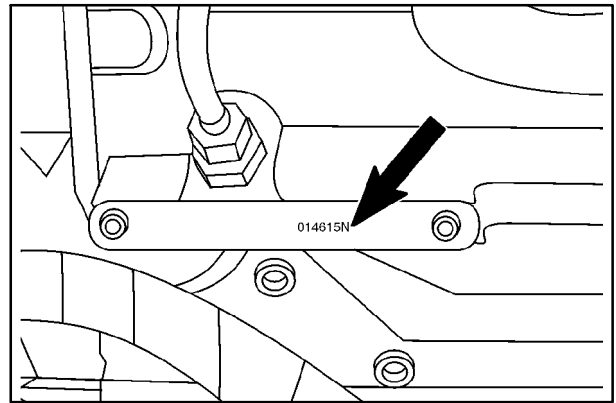
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## Engine Identification

**Figure 3**

Engine serial number is stamped on right side of the engine cylinder block. This number is repeated on vehicle identification plate. Record the engine Serial Number below for quick reference.

Engine Serial No. \_\_\_\_\_



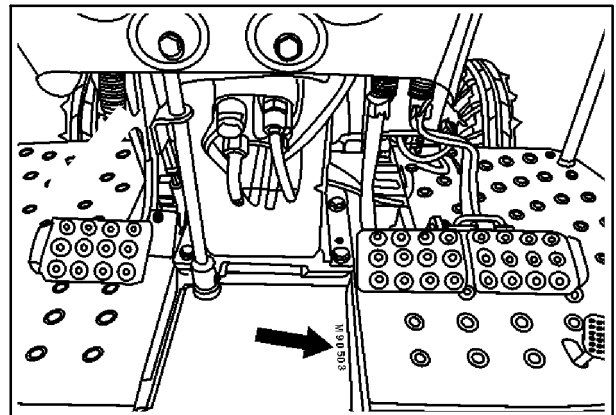
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## Transmission Identification

**Figure 4**

Transmission serial number is stamped on Top of transmission housing, beside the brake pedal. This information is repeated on tractor identification decal. Record the transmission serial number below for quick reference.

Transmission Serial No. \_\_\_\_\_



4

## ECOLOGY AND THE ENVIRONMENT

Soil, air and water are vital factors that impact agriculture and life in general. Where legislation does not yet rule the treatment of some of the substances which are required by advanced technology, common sense should govern the use and disposal of products of a chemical and petrochemical nature.

The following are recommendations which may be of assistance:

- Become acquainted with and ensure that you understand the legislation applicable to your country.
- Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, cleaning agents, etc., with regard to their effect on man and nature and how to safely store, use and dispose off these substances.

### HELPFUL HINTS

1. Avoid filling tanks using open containers or inappropriate pressurised fuel delivery systems which may cause excessive spillage.
2. In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of them contain substances which can be harmful to your health.
3. Modern oils contain additives. Do not burn contaminated fuels and/or waste oils in ordinary heating systems.
4. Avoid spillage while draining used engine coolant mixtures, engine, gearbox and hydraulic oils, brake fluids, etc. Do not mix drained brake fluids or fuels with lubricants. Store them safely until they can be disposed off in a proper way to comply with local legislation.
5. Modern coolant mixtures, i.e. antifreeze and other additives, should be replaced every 12 months or 1200 Hours. They should not be allowed to get into the soil but should be collected and disposed off safely.
6. Repair any leaks or defects in the engine cooling or hydraulic system immediately.
7. Do not increase the pressure in a pressurised circuit as this may lead to explosion of component.
8. Protect hoses during welding as penetration of weld splatter may burn a hole or weaken them, causing the losses of oil, coolant etc.



## SAFETY PRECAUTIONS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read and take the following precautions before driving, operating or servicing the tractor. Equipment should be operated only by those who are responsible, trained & authorised to do so.

### PRECAUTIONARY STATEMENTS

Throughout this Manual you will see text, preceded by the words **NOTE**, **ATTENTION**, **IMPORTANT**, **CAUTION**, **WARNING** or **DANGER**. Such text has the following significance:

#### Machine Safety

**NOTE:** This text stresses a correct operating technique or procedure.

**ATTENTION:** This text warns the operator of potential machine damage if a certain procedure is not followed.

**IMPORTANT:** This text informs the reader about something that he needs to know to prevent minor machine damage if a certain procedure is not followed.

#### Personal Safety



#### CAUTION

The word CAUTION is used where a safe behavioural practice, according to operating & maintenance instructions and common safety practices will protect the operator and others from accident involvement.



#### WARNING

The word WARNING denotes a potential or hidden hazard which could possibly cause serious injury. It is used to warn operators and others to exercise due care and attention to avoid an accident with machinery.



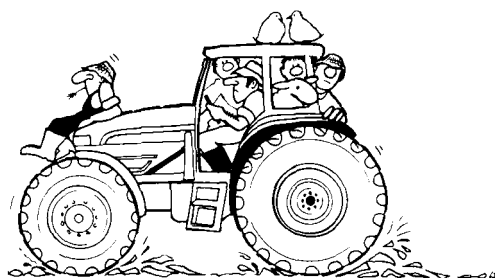
#### DANGER

The word DANGER denotes a forbidden practice in connection with a serious hazard.

Failure to follow the **CAUTION**, **WARNING** and **DANGER** instructions may result in serious injury to body or even death.

### THE TRACTOR

1. Read this Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Only allow properly trained and qualified person to operate the tractor.
3. To prevent falls, use the hand rails and step plates while getting on and off the tractor. Keep steps and platform clear of mud and debris.
4. Replace all missing, illegible or damaged safety decals.
5. Keep safety decals free of dirt or grime.



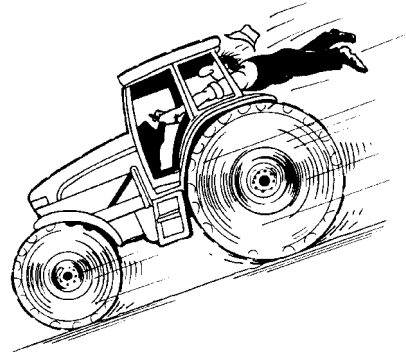
6. Do not permit anyone, except the operator to ride the tractor. It is unsafe for extra passengers to travel.
7. Always keep children away from the tractor and farm machinery.
8. You or any body else should not modify or alter tractor or any of its components without consulting your authorised dealer.
9. Install all guards before starting the engine or operating the tractor.
10. Tractor wheels are very heavy. Handle with care and ensure while storing that they should not topple down and cause injury to anybody.

## DRIVING THE TRACTOR

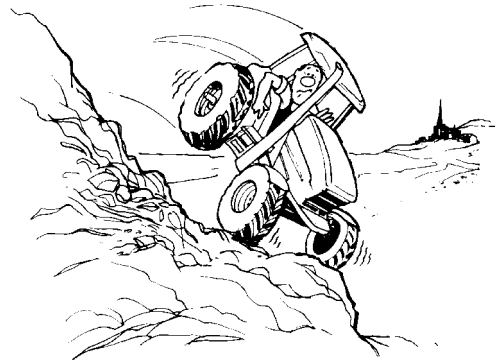
1. Always sit in the driver's seat while starting or driving the tractor.
2. When driving on public roads, have consideration for other road users. Keep tractor in left lane (slow moving traffic lane) so as to allow traffic to pass besides you. Do not exceed the legal speed limit set for agricultural tractors.
3. Dip the tractor lights when meeting a vehicle at night. Make sure the lights are adjusted to prevent blinding the driver of an oncoming vehicle.
4. Reduce speed before turning or applying the brakes. Brake both wheels simultaneously when making an emergency stop. Ensure that both brake pedals are locked together when travelling at road speeds or when on public roads. Ensure correct operation of trailer brakes.



5. Use extreme caution and avoid hard application of the tractor brakes when towing heavy loads at road speeds.
6. Keep the tractor in the same gear when going downhill as it would have been when going uphill. Do not coast or freewheel down hills.



7. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.
8. Never try to apply the differential lock while turning. When engaged, the differential lock will prevent the tractor from turning.
9. Always check overhead clearance, specially when transporting the tractor. Watch where you are going, specially at row ends, on roads around trees and low overhanging obstacles.
10. To avoid overturns, drive the tractor with care and at speeds compatible with safety, specially when operating over rough ground, when crossing ditches or slopes and when turning corners.



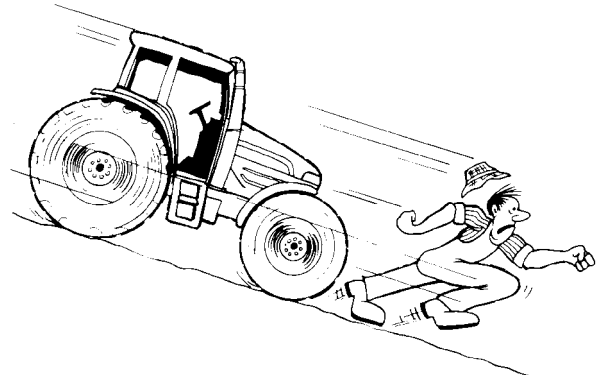
11. Use extreme caution when operating on steep slopes.
12. If tractor tyres are stuck/slipping in forward, reverse the tractor to prevent overturning.

## OPERATING THE TRACTOR

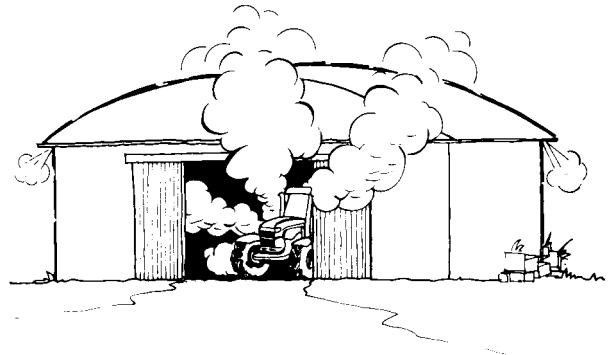
1. Apply the parking brake, place the PTO control in the 'OFF' position, the lift control lever in the down position, and the transmission levers in neutral before starting the tractor.
2. Do not start the engine or operate controls while standing beside the tractor. Always sit on the tractor seat when starting the engine or operating the controls.
3. Do not bypass the transmission neutral start switches. Consult your authorised dealer if your neutral start controls malfunction.
4. Use jump leads only in the recommended manner. Improper use can result in a tractor run away on its own or causing damage to the battery.



5. Avoid accidental contact with the gear shift levers while engine is running. Unexpected tractor movement can occur due to such contact.
6. Do not get off the tractor while it is in motion.
7. Before leaving the tractor, park the tractor on level ground. Apply parking brake, lower down the attached implement to the ground, disengage PTO and stop the engine.



8. Do not park the tractor on a steep incline.
9. Do not operate the tractor with parking brake applied



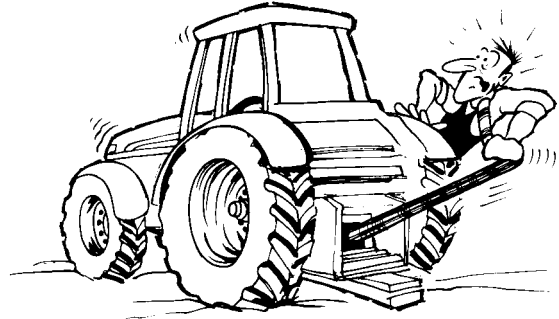
10. Do not run the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes are toxic and can cause death.
11. Pull only from the pick-up hitch, swinging drawbar or the lower link drawbar in the lowered position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axle or any point above the axle may cause the tractor to overturn.
12. Always select Position Control while attaching or transporting equipment. Be sure hydraulic couplers are properly mounted so that they can be disconnected safely in case of accidental detachment of the implement.



13. If front end of the tractor tends to rise when heavy implements are attached to the three-point hitch, install front end weights. Do not operate the tractor with a light front end.
14. Engage the clutch slowly when driving out of a ditch, gully or up a steep hillside. Disengage the clutch promptly if the front wheels rise off the ground.
15. For any attachment or accessories ensure following:-
  - a. Are approved for use with the tractor,
  - b. Are correctly installed,
  - c. Should not over load the tractor
  - d. Operated and maintained in accordance to instructions issued by equipment or accessories manufacturer.
16. Remember that your tractor, if abused or incorrectly used, can be dangerous and become a hazard both to the operator and by-standers. Do not overload or operate with attached equipment which is unsafe, not designed for the particular task or is poorly maintained.
17. Do not leave implement in the raised position when the vehicle is parked or is left unattended.
18. Do not drive tractor or implement near open fire.
19. Always wear a protective mask when working with toxic spray chemicals. Follow the directions on the chemical container.

## OPERATING THE PTO

1. After operation of PTO driven implement is over, shut off the engine, switch off the PTO and wait until the PTO stops before getting off the tractor.



2. Do not wear loose clothing while operating the power take-off or specially when near rotating implement.
3. While operating stationary PTO driven implement, always apply the tractor parking brake and choke the rear wheels front and back.
4. To avoid injury, do not clean, adjust, unclog or service PTO driven implement when the tractor engine is running. Ensure that the PTO is switched off.



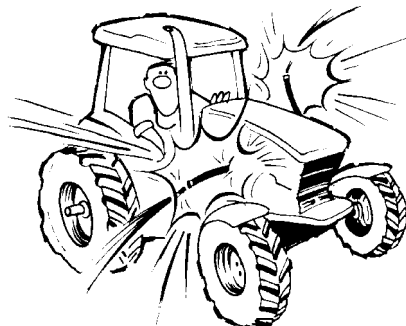
5. Make sure that PTO guard is in position all the time. Always place or put back the PTO cap when the PTO is not in use.

### SERVICING THE TRACTOR



1. The cooling system operates under pressure. It is dangerous to remove the radiator cap when the system is hot or when engine is running. Always turn the cap slowly to the first stop, and allow the pressure to escape before removing the cap fully.
2. Do not smoke while refuelling the tractor. Keep away from open flames.
3. Keep the tractor and implement, particularly brakes and steering, maintained in a reliable and satisfactory condition to ensure your safety and to comply with legal requirements.
4. Stop the engine before performing any service on the tractor.
5. To prevent fire or explosion, keep open flames away from battery or cold weather starting aids. To prevent sparks which could cause explosion, use jumper cables according to instructions.
6. Hydraulic fluid in hydraulic system and fuel in the injection system operate under high pressure. Escaping hydraulic fluid or fuel under pressure can penetrate the skin causing serious injury. Unqualified persons should not disassemble or attempt to adjust a pump, injector, nozzle or any other part of the fuel injection or hydraulic systems. Failure to follow these instructions can result in serious injury.

- Do not use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
- Stop the engine and relieve pressure before connecting or disconnecting lines.



- Tighten all connections before starting the engine or pressurising lines.
  - If fluid gets injected into the skin, obtain medical attention immediately otherwise it can result into gangrene.
7. You or any body else should not modify or alter tractor or any of its components without consulting your authorised dealer.
  8. Continuous long term contact with used engine oil may cause skin cancer. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.
  9. Keep tractor clean and properly maintained.
  10. Dispose off all drained fluids and removed filters properly.
  11. Tractor wheels are very heavy. Handle with care and ensure while storing that they should not topple down and cause injury to anybody.

### DIESEL FUEL

1. Under no circumstances should gasoline, alcohol or blended fuels be added to diesel fuel. These combinations can create an explosion hazard. In a closed container such as a fuel tank these blends are more explosive than pure gasoline. Do not use these blends.
2. Never operate without fuel cap. Also it is recommended not to refuel when the engine is running or is hot.
7. Never use fuel for cleaning purpose.



3. Do not smoke while refuelling the tractor or when standing near fuel. Always keep away from open flames.
4. Do not fill fuel tank to its full capacity . Fill only to the bottom of the filler neck to allow room for expansion.
5. Wipe up spilled fuel immediately. Always secure the fuel tank cap tightly.
6. If the original fuel tank cap is lost, replace it with an approved cap. A non-approved cap may not be safe.

Whenever you see this symbol  it means: **ATTENTION!**  
**BECOME ALERT! YOUR SAFETY IS INVOLVED!**

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