

TECHNICAL INSTALLATION MANUAL

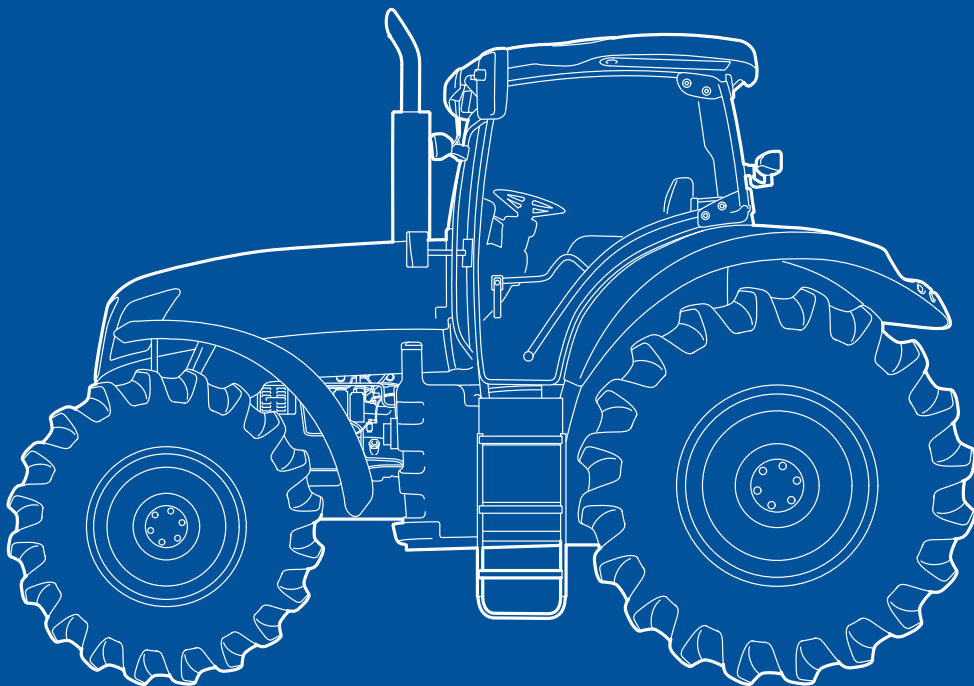
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INTRODUCTION

This manual is designed to assist Dealer and New Holland personnel with the installation of the T7000 SERIES tractors.

It is based around the "5 Point Plan" whereby the installer explains the important points of the unit. Starting at point 1 - "rear of unit" - travelling in anti clockwise direction, finishing at point 5 - "cab".

Chapters Point One to Point Five of this booklet correspond with the relevant point on this 5-point plan and contain a diagram with the important components for discussion having a location number. Each location is detailed in the following way:

LOCATION	DESCRIPTION	OPERATION	SERVICE
6	Engine Oil Filter	-	Section 4, page 33

The engine oil and filter must be changed every 600 hours, or more regularly if the fuel has a high sulphur content or if the tractor is operated at extremely low temperatures.

Refer to the Operator's Manual section 4 page 9 for oil specifications, and section 7 page 6 for capacities.

LOCATION NUMBER:	Location of component.
DESCRIPTION:	Description of component.
OPERATION:	Section and page of Operator's Manual where the operation of the component is explained.
SERVICE:	Section and page of maintenance section of Operator's Manual where service of the component is explained.

This manual should be used as a "Quick Reference Guide" to aid the installer to discuss the important points of the unit.

All relevant information to the operation and maintenance of this product is comprehensively explained in the Operator's Manual. It is important that reference is constantly made to the Operator's Manual throughout the installation to ensure its use is promoted to the customer.

PRE INSTALLATION

Prior to delivering the new product to the customer, it is very important that the following is carried out.

Completing the checklist will ensure the installer is fully prepared to deliver and install the unit in a professional manner, thereby enabling the customer to operate his recent purchase with optimum results.

Installation Checklist

Ensure that:

1. The Customer Profile has been reviewed, and discussed with the Salesman.
2. "Pre Delivery Inspection" has been reviewed, and corrective action has been taken on the faulty items detected; the "Pre Delivery Inspection Certificate" section of the After Sales Portfolio (if available) has been completed and signed.
3. Technical Installation Manual and Operator's Manual have been read and fully understood to be able to provide a professional presentation.
4. The "Product" and "Your New Holland Dealer" sections of the After Sales Portfolio (if available) are completed.
5. Unit is in excellent condition.
6. The Product is ready for transportation.
7. Appointment confirmed, and the location for delivery and installation agreed upon.
8. There is sufficient fuel for operating the unit during installation.
9. The Operator's Manual and After Sales Portfolio (if available) are within the unit.

SAFETY PRECAUTIONS

Personal safety is of utmost importance whilst operating this product. During its installation, full emphasis must be made to the precautionary statements and safety decal location.

In order to assist the installer with this important subject, the “Safety” information from the Operator’s Manual has been included for ease of reference. The safety decal location and details are outlined at the start of each point of the 5 point plan.

SAFETY

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 and instructed to do so.

PRECAUTIONARY STATEMENTS

Throughout this Manual you will see text in Italics, 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 of 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 and 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 a surprise 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 bodily injury or even death.

THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Only allow properly trained and qualified persons to operate the tractor.
3. To prevent falls, use the handrails and step plates when 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.



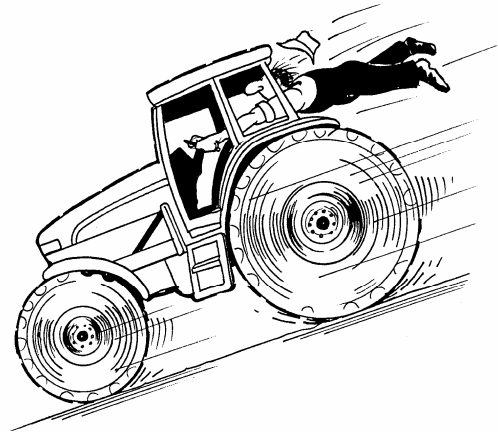
6. Do not permit anyone but the operator to ride on the tractor unless a passenger seat is fitted. There is no safe place for extra passengers otherwise.
7. Keep children away from the tractor and farm machinery at all times.
8. Do not modify or alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting your dealer.
9. Install all guards before starting the engine or operating the tractor.

DRIVING THE TRACTOR

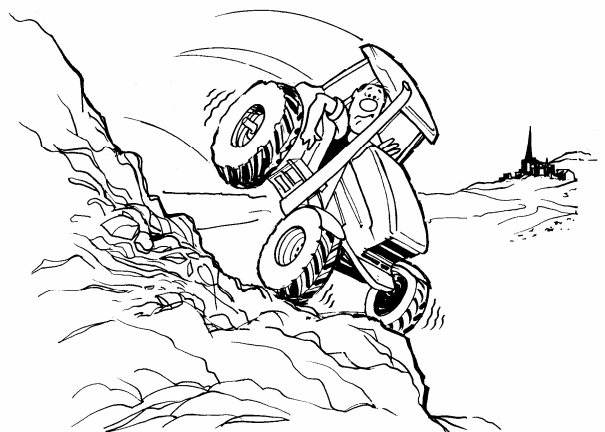
1. Always sit in the driver's seat while starting or driving the tractor.
2. When driving on public roads, have consideration for other road users. Pull in to the side of the road occasionally to allow any following traffic to pass. Do not exceed the legal speed limit set in your country for agricultural tractors.
3. Use a rotating beacon when driving on public roads to indicate that the vehicle is slow moving and is a possible hazard.
4. 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.
5. 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 to ensure correct operation of trailer brakes, balanced operation of the tractor brakes and four wheel braking (4WD tractors only).



6. On four wheel drive tractors, the drive to the front axle is automatically engaged, to provide four-wheel braking, when both footbrakes are applied. Owners should be aware of the effectiveness of four-wheel braking, which greatly enhances braking performance. Appropriate care should be exercised during fierce braking.
7. Use extreme caution and avoid hard application of the tractor brakes when towing heavy loads at road speeds.



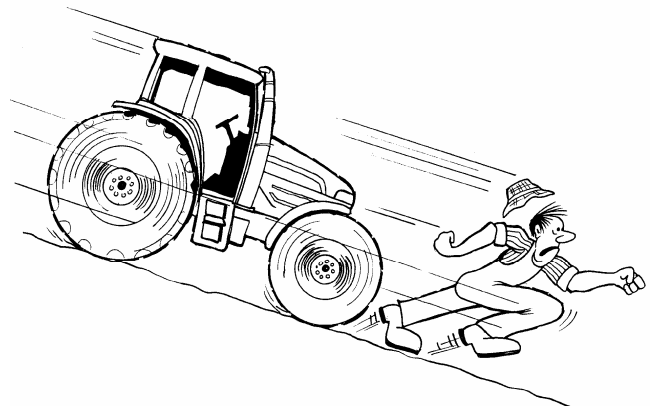
8. Keep the tractor in the same gear when going downhill as would be used when going uphill. Do not coast or freewheel down hills.
9. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.
10. Never apply the differential lock when turning. When engaged, the differential lock will prevent the tractor from turning.
11. Always check overhead clearance, especially when transporting the tractor. Watch where you are going, especially at row ends, on roads and around trees and low overhanging obstacles.
12. To avoid overturns, drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, when crossing ditches or slopes and when turning corners.



13. Use extreme caution when operating on steep slopes.
14. If the tractor becomes stuck or the tyres are frozen to the ground, reverse the tractor out to prevent overturning.

OPERATING THE TRACTOR

1. Apply the parking brake, place the P.T.O. control in the 'OFF' position, the lift control lever in the down position, the remote control valve levers in the neutral position and the transmission levers in neutral before starting the tractor.
2. Do not start the engine or operate controls (other than externally mounted hydraulic lift or P.T.O. switches, if fitted) while standing beside the tractor. Always sit in 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. Use jump leads only in the recommended manner. Improper use can result in a tractor runaway.



4. Avoid accidental contact with the gear shift levers while the engine is running. Unexpected tractor movement can result from such contact.
5. Do not get off the tractor while it is in motion.
6. If the power steering or engine ceases operating, stop the tractor immediately, as the tractor will be more difficult to control.
7. Before leaving the tractor, park the tractor on level ground, apply the parking brake, lower attached implements to the ground, disengage the P.T.O. and stop the engine.

8. Do not park the tractor on a steep incline.
9. The cab is designed to provide the minimum noise level at the operator's ears and meets or exceeds applicable standards in this respect. However, noise (sound pressure level) in the workplace can exceed 85 dB(A) when working between buildings or in confined spaces, with cab windows open. Therefore, it is recommended that operators wear suitable ear protectors when operating in high noise level conditions.



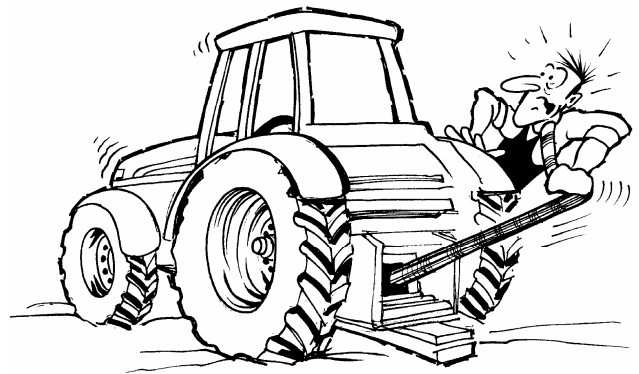
10. Do not run the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes are toxic and can cause death.
11. Pull only from the pick-up hitch, swinging drawbar or the lower link drawbar in the lowered position. Use only a drawbar pin that locks in place. Pulling from the tractor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

OPERATING THE P.T.O.



13. If the front end of the tractor tends to rise when heavy implements are attached to the three-point hitch, install front end or front wheel 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. Ensure any attached equipment or accessories are correctly installed, are approved for use with the tractor, do not overload the tractor and are operated and maintained in accordance with the instructions issued by the equipment or accessory manufacturer.
16. Remember that your tractor, if abused or incorrectly used, can be dangerous and become a hazard both to the operator and to bystanders. 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 equipment in the raised position when the vehicle is stopped or unattended.
18. Do not drive equipment near open fires.
19. Always wear a protective mask when working with toxic spray chemicals. Follow the directions on the chemical container.

1. When operating P.T.O. - driven equipment, shut off the engine, switch off the P.T.O. and wait until the P.T.O. stops before getting off the tractor and disconnecting the equipment.



2. Do not wear loose clothing when operating the power take-off or especially when near rotating equipment.
3. When operating stationary P.T.O.-driven equipment, always apply the tractor parking brake and block the rear wheels front and back.

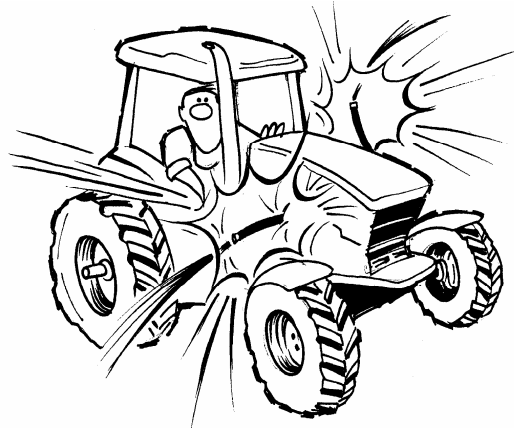


4. To avoid injury, do not clean, adjust, unclog or service P.T.O. driven equipment when the tractor engine is running. Ensure that the P.T.O. is switched off.
5. Make sure the P.T.O. guard is in position at all times and always replace the P.T.O. cap when the P.T.O. is not in use.

SERVICING THE TRACTOR



- **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.



1. The cooling system operates under pressure, which is controlled by the expansion tank cap. It is dangerous to remove the cap while the system is hot. Always turn the cap slowly to the first stop and allow the pressure to escape before removing the cap entirely. Never remove the cap from the top of the radiator unless the expansion tank pressure cap has first been removed.
2. Do not smoke while refuelling the tractor. Keep any type of open flame away.
3. Keep the tractor and equipment, particularly brakes and steering, maintained in a reliable and satisfactory condition to ensure your safety and comply with legal requirements.
4. 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.
5. Do not attempt to service the air conditioning system. It is possible to be severely frost bitten or injured by escaping refrigerant. Special equipment and instruments are required to service the air conditioning system. See your authorised dealer for service.
6. Stop the engine before performing any service on the tractor.
7. Hydraulic fluid and fuel oil in the injection system operate under high pressure. Escaping hydraulic fluid or fuel oil under pressure can penetrate the skin causing serious injury. Unqualified persons should not remove 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.
8. Do not modify or alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting an authorised dealer.
9. 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.
10. Keep equipment clean and properly maintained.
11. Dispose of all drained fluids and removed filters properly.
12. Tractor wheels are very heavy. Handle with care and ensure, when stored, that they cannot topple and cause injury.

DIESEL FUEL

1. Under no circumstances should gasoline, alcohol or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive 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 remove the fuel cap or refuel with the engine running or hot.
7. Always tighten the fuel tank cap securely.
8. If the original fuel tank cap is lost, replace it with an approved cap. A non-approved cap may not be safe.
9. Never use fuel for cleaning purposes.
10. Arrange fuel purchases so that summer grade fuels are not held over and used in the winter.



3. Do not smoke while refuelling the tractor or when standing near fuel. Keep any type of open flame away.
4. Maintain control of the fuel filler pipe nozzle when filling the tank.
5. Do not fill the fuel tank to capacity. Fill only to the bottom of the filler neck to allow room for expansion.
6. Wipe up spilled fuel immediately.

**WHENEVER YOU SEE THIS SYMBOL  IT MEANS: ATTENTION!
BECOME ALERT! YOUR SAFETY IS INVOLVED!**

OPERATOR PROTECTIVE STRUCTURE



WARNING



Your machine is equipped with an operator Protective Structure, such as: a Roll Over Protective Structure (ROPS) or Falling Object Protective Structure (FOPS) or Cab with ROPS. A ROPS may be a cab frame or a two-posted or four-posted structure used for the protection of the operator to minimize the possibility of serious injury.

The Protective Structure is a special safety component of your machine. DO NOT attach any device to the Protective Structure for pulling purposes. DO NOT drill holes to the Protective Structure.

The Protective Structure and interconnecting components are a certified system. Any damage, fire, corrosion or modification will weaken the structure and reduce your protection. If this occurs, the **Protective Structure MUST be replaced** so that it will provide the same protection as a new Protective Structure. Contact your dealer for Protective Structure inspection and replacement.

After an accident, fire, tip or roll over, the following **MUST** be performed by a qualified technician before returning the machine to field or job site operation.

- The Protective Structure **MUST be replaced**.
- The mounting or suspension for the Protective Structure, operator seat and suspension, seat belts and mounting components and wiring within the operator's protective system **MUST** be carefully inspected for damage.
- All damaged parts **MUST be replaced**.

DO NOT WELD, DRILL HOLES, ATTEMPT TO STRAIGHTEN OR REPAIR THE PROTECTIVE STRUCTURE. MODIFICATION IN ANY WAY CAN REDUCE THE STRUCTURAL INTEGRITY OF THE STRUCTURE WHICH COULD CAUSE DEATH OR SERIOUS INJURY IN THE EVENT OF FIRE, TIP, ROLL OVER, COLLISION OR ACCIDENT.

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