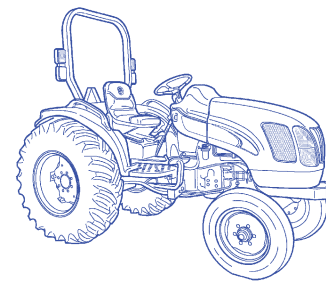


NEW HOLLAND
TC35A
TC40A
TC45A

87300513 11/03

OPERATOR'S MANUAL



NEW HOLLAND

TO THE OWNER

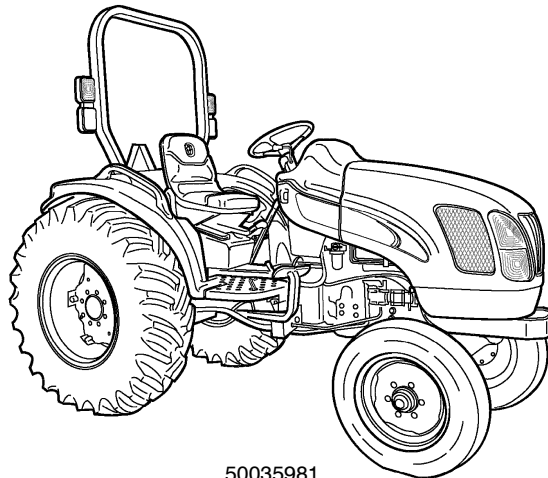
This manual contains information concerning the adjustment and maintenance of your New Holland Models TC35A, TC40A and TC45A tractors. You have purchased a dependable machine, but only by proper care and operation can you expect to receive the performance and long service built into this tractor. Please have all operators read this manual carefully and keep it available for ready reference.

Your New Holland dealer will instruct you in the general operation of your tractor. (Refer to the "Delivery Report" at the back of this manual.) Your dealer's staff of factory-trained service technicians will be glad to answer any questions that may arise regarding the operation of your tractor.

Your New Holland dealer carries a complete line of genuine New Holland service parts. These parts are manufactured and carefully inspected to insure high quality and accurate fitting of any necessary replacement parts. Be prepared to give your dealer the model and serial number of the tractor, when ordering parts. Locate these numbers now and record them below. Refer to the "General Information" section of this manual for the location of the model and serial numbers of your tractor.

Model _____

Serial Number _____



CAUTION



This safety alert symbol indicates important safety messages in this manual. When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury or death.



CAUTION



Pictures in this manual may show protective shielding open or removed to better illustrate a particular feature or adjustment.

Be certain, however, to close or replace all shielding before operating the machine.

IMPROVEMENTS

New Holland North America, Inc. is continually striving to improve its products. We reserve the right to make improvements or changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously.

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CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

PRECAUTIONARY STATEMENTS

PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements (“**DANGER**”, “**WARNING**”, and “**CAUTION**”) followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.

DANGER

This word “**DANGER**” indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.

WARNING

This word “**WARNING**” indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.

CAUTION

This word “**CAUTION**” indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

FAILURE TO FOLLOW THE “DANGER”, “WARNING”, AND “CAUTION” INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.

MACHINE SAFETY

The precautionary statement (“**IMPORTANT**”) is followed by specific instructions. This statement is intended for machine safety.

IMPORTANT: *The word “IMPORTANT” is used to inform the reader of something he needs to know to prevent minor machine damage if a certain procedure is not followed.*

INFORMATION

NOTE: *Instructions used to identify and present supplementary information.*

SAFETY

PRECAUTIONARY STATEMENTS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read the following precautions before operating this equipment. Equipment should be operated only by those who are responsible and instructed to do so.

Carefully review the procedures given in this manual with all operators. It is important that all operators be familiar with and follow safety precautions.

THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Use an approved roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a roll bar and seat belt, see your New Holland Dealer.
3. Always use the seat belt. The only instance when the seat belt should not be used is if the roll bar has been removed from the tractor or folding ROPS is in down position.
4. If a front end loader is to be installed, always use a FOPS (Falling Object Protective Structure) canopy to avoid injury from falling objects.
5. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.
6. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
7. Keep all safety decals clean of dirt and grime, and replace all missing, illegible, or damaged safety decals. See the list of decals in the Decal section of this manual.
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. Keep open flame or cold weather starting aids away from the battery to prevent fires or explosions. Use jumper cables according to instructions to prevent sparks which could cause explosion.
5. Stop the engine before performing any service on the tractor.
6. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury. If fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
 - 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 pressurizing lines.
7. Do not modify or permit anyone else to modify or alter this tractor or any of its components or functions without first consulting a New Holland Dealer.
8. The fuel oil 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 other part of the fuel injection system. Failure to follow these instructions can result in serious injury.

SERVICING THE TRACTOR

1. 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. Always turn the cap slowly to the first stop and allow pressure to escape before removing the cap entirely.
2. Keep any type of open flame away from the tractor and do not smoke while refueling. Wait for the engine to cool before refueling.
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. Some components of your tractor, such as gaskets and friction surfaces (brake linings, clutch linings, etc.) may contain asbestos. Breathing asbestos dust is dangerous to your health. You are advised to have any maintenance or repair on such components carried out by an authorized New Holland Dealer. However, if service operations are to be undertaken on parts that contain asbestos, the essential precautions listed below must be observed:

- Work out of doors or in a well ventilated area.
- Dust found on the tractor or produced during work on the tractor should be removed by extraction, not by blowing.
- Dust waste should be dampened, placed in a sealed container, and marked to ensure safe disposal.
- If any cutting, drilling, etc. is attempted on materials containing asbestos, the item should be dampened and only hand tools or low speed power tools used.

OPERATING THE TRACTOR

1. Before starting the tractor, apply the parking brake, place the PTO lever in the "OFF" position, the lift control lever in the down position, the remote control valve levers in the neutral position, and the transmission in neutral.
2. Always sit in the tractor seat when starting the engine or operating controls. Do not start the engine or operate controls while standing beside the tractor.
3. Do not bypass the neutral start switches. Consult your New Holland Dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in tractor runaway.
4. Avoid accidental contact with the gear shift lever while the engine is running, as this can cause unexpected tractor movement.
5. Before getting off the tractor, disengage the PTO, turn the engine off, and apply the parking brake. Never get off the tractor while it is in motion.
6. Do not park the tractor on a steep incline.
7. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death or illness.
8. If the power steering or engine ceases operating, stop the tractor immediately.

9. Pull only from the drawbar or the lower link drawbar in the down 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 upset.

10. 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.

11. Always set the hydraulic selector lever in position control when attaching or transporting equipment. Ensure hydraulic couplers are properly mounted and will disconnect safely in case of accidental detachment of implement.

12. Do not leave equipment in the raised position.

13. Use the flasher/turn signal lights and SMV signs when traveling on public roads both day and night (unless prohibited by law).

14. When operating at night, adjust lights to prevent blinding oncoming drivers.

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 a safe speed. Use extra caution when operating over rough ground, when crossing ditches or slopes, and when turning corners.

3. To provide two-wheel braking, lock tractor brake pedals together when transporting on roads.

4. Do not coast or free wheel down hills. Use the same gear when going downhill as is used when going uphill.

5. Any towed vehicle with a total weight exceeding that of the towing tractor should be equipped with brakes for safe operation.

6. If the tractor becomes stuck or the tires become frozen to the ground, back up the tractor to prevent upset.

7. Always check overhead clearance, especially when transporting the tractor.

8. When operating at night, adjust lights to prevent blinding oncoming drivers.

OPERATING THE PTO

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 when near rotating equipment.
3. When operating stationary PTO driven equipment, always place all three gear shift levers in neutral position:
 - Main shift lever
 - Shuttle shift lever
 - Range shift lever
 - Apply the tractor parking brake, and block the rear wheels front and back.
4. To avoid injury, do not clean, adjust, unclog, or service PTO driven equipment when the tractor engine is running.
5. Ensure the PTO master shield is installed at all times. Always replace the PTO shield cap when the PTO is not in use.

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. Such blends are more explosive than pure gasoline in a closed container such as a fuel tank. **DO NOT USE THESE BLENDS.**
2. Never remove the fuel cap or refuel with the engine running or hot.
3. Do not smoke while refueling or when standing near fuel.
4. Maintain control of the fuel filler pipe nozzle when filling the tank.
5. Do not fill the fuel tank to capacity. Allow room for expansion.

6. Wipe up spilled fuel immediately.
7. Always tighten the fuel tank cap securely.
8. If the original fuel tank cap is lost, replace it with a New Holland approved cap. A non-approved, proprietary cap may not be safe.
9. Keep equipment clean and properly maintained.
10. Do not drive equipment near open fires.
11. Never use fuel for cleaning purposes.
12. Arrange fuel purchases so that winter grade fuels are not held over and used in the spring.

SAFETY FRAME (ROPS)

Your New Holland tractor is equipped with a safety frame. It must be maintained in a serviceable condition. Be careful when driving through doorways or working in confined spaces with low headroom.

UNDER NO CIRCUMSTANCES should you:

- modify, drill, or alter the safety frame in any way. Doing so may render you liable to legal prosecution.
- attempt to straighten or weld any part of the main frame or retaining brackets which have suffered damage. Doing so may weaken the structure and endanger your safety.
- secure any parts on the main frame or attach your safety frame with anything other than the special high tensile bolts and nuts specified.
- attach chains or ropes to the main frame for pulling purposes.
- take unnecessary risks even though your safety frame affords you the maximum protection possible.



WHEN YOU SEE THIS SYMBOL

IT MEANS:

ATTENTION!

BECOME ALERT!

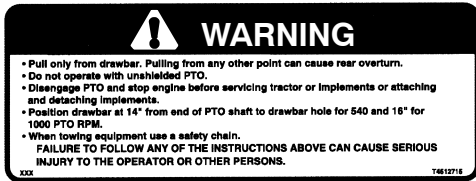
YOUR SAFETY IS INVOLVED!

SAFETY DECALS

The following safety decals have been placed on your machine in the areas indicated. They are intended for your personal safety and for those working with you. Please take this manual and walk around your machine to note the content and location of these warning signs. Review these warning signs

and the operating instructions detailed in this manual with your machine operators.

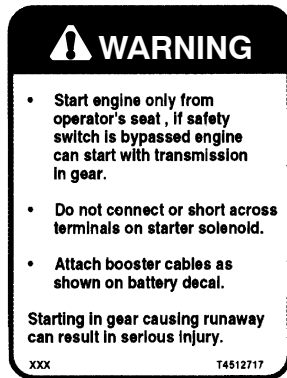
Keep the decals legible. If they are not, obtain replacements from your authorized dealer. The decal replacement part numbers are listed with each decal.



WARNING: Pull Only From Drawbar
PART NO: 86532904
LOCATION: PTO Shield



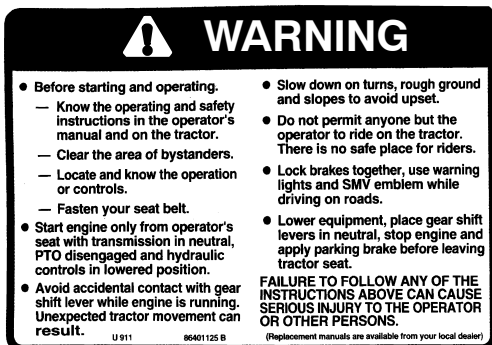
DANGER: ROPS
PART NO: 86401130
LOCATION: Inner RH side of ROPS



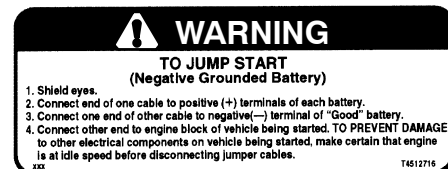
WARNING: Start Engine Only From Operator's Seat
PART NO: 865579295
LOCATION: On the Starter Motor



WARNING: Rotating Fan and Belts
PART NO: 86532907
LOCATION: Both Sides of Fan Shroud



WARNING: Before Starting and Operating
PART NO: 86401125
LOCATION: Left Console Panel



WARNING: To Jump Start
PART NO: 86402367
LOCATION: Front of Coolant Overflow Tank

INSTRUCTION DECALS



Front-Wheel Drive Control Lever
 PART NO: 86400177
 LOCATION: Left Fender



Position Control Lever
 PART NO: 86571897
 LOCATION: Right-Hand Quadrant



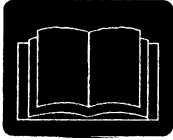
Operating Remote Control Valve
 Single Spool
 PART NO: 86567895
 LOCATION: Right-Hand Fender
 OPTIONAL

PTO Engagement
 PART NO: 86567890
 LOCATION: Left-Hand
 Seat Pan



Range Selector Lever (Manual)
 PART NO: 86567891
 LOCATION: Left fender





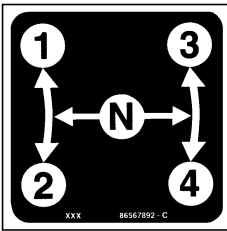
Hyd. Manifold Operation
 (See Operator's Manual)
 PART NO: 86532914
 LOCATION: Right-Hand Side
 of Hyd. Manifold/Air Filter Cap



Starter Switch
 PART NO: 86400175
 LOCATION: Starter Switch,
 Right Side of Instrument Panel



Engine Oil
 PART NO: 86532916
 LOCATION: Engine Oil
 Filler Cap



Main Shift Lever
 PART NO: 86567892
 LOCATION: Top right of dash



Coupler-Extending
 PART NO: 86532920



Coupler-Retracting
 PART NO: 86532919



Coupler-Extending
 PART NO: 86532921

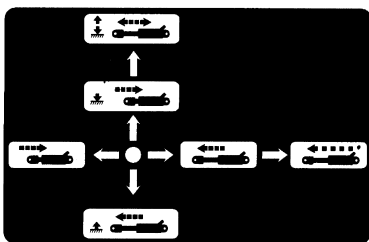


Coupler-Retracting
 PART NO: 86532922

Forward-Reverse Shuttle
 PART NO: 86567887
 LOCATION: Top Left
 of Dash



Power Steering Fluid
 PART NO: 86532903
 LOCATION: Top of P.S. Reservoir

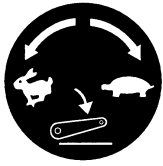


Operating Remote Control Valve-
 Double Spool
 PART NO: 86532911
 LOCATION: Cover of 2-Spool
 Remote Valve
 OPTIONAL

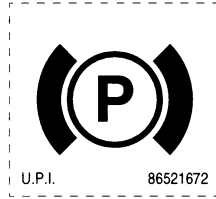
Lubrication and
 Maintenance Intervals
 PART NO: 86400357
 LOCATION: Inside of Hood

WATCH YOUR PROOF METER HOURS					
Lubrication and maintenance service intervals					
LUBRICATION AND MAINTENANCE ITEM	CHECK	CLEAN	LUBE	CHANGE	SERVICE INTERVAL
Radiator Coolant	*				Every 10 Hours or Daily
Engine Oil level	*				
Air Cleaner	*				
Transmission Oil Level	*				
Power Steering Oil Level	*				
Front Diff Oil Level	*				
Front Axle Oil Level	*				
Tires	*				
Clutch Pedal		*		*	
Battery	*				
Lubrication Fittings		*	*	*	Every 50 Hours
Steering Linkage		*	*	*	
2-Wheel Drive King Pins		*	*	*	
3-point Linkage		*	*	*	
Pivot Shaft		*	*	*	
Brake Pedal		*	*	*	
Drive Shaft Cover		*	*	*	
H.S.T. Foot Pedal Shaft		*	*	*	
Power Steering		*	*	*	
Engine Oil		*	*	*	Every 100 Hours
Fuel Filter		*	*	*	
Air Cleaner		*	*	*	Every 200 Hours
Engine Oil Filter		*	*	*	
Fuel Filter		*	*	*	Every 200 Hours
Fan Belt		*	*	*	
Brakes		*	*	*	
H.S.T. Filter		*	*	*	Every 300 Hours
Front Axle Oil		*	*	*	
Front Diff Oil		*	*	*	
Hydraulic Filter		*	*	*	
Transmission Oil		*	*	*	
Fuel Injectors	*				Every 600 Hours
Valve Clearance	*				
Front Wheel Bearings	*				
Power Steering Oil	*				
Radiator Coolant		*	*	*	Seasonal
Air Cleaner Element		*	*	*	

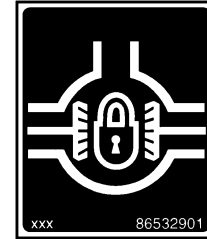
Refer to your Operator's Manual
for additional information.



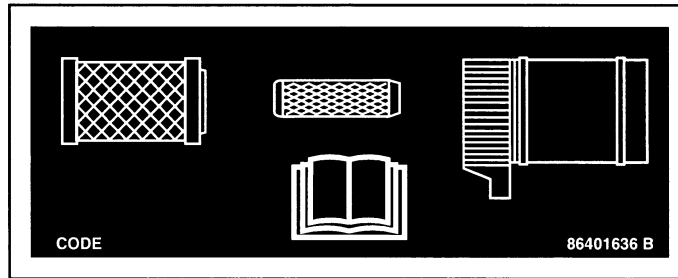
Drop Rate Valve
 PART NO: 86400295
 LOCATION:
 Top of Drop Rate Knob



Parking Brake
 PART NO: 86521672
 LOCATION: Right Front
 Deck Platform



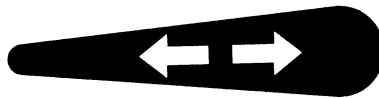
Differential Lock
 PART NO: 86532901
 LOCATION: Right Rear
 Deck Platform



Air Cleaner Maintenance
 PART NO: 86401636
 LOCATION: Air Cleaner Canister



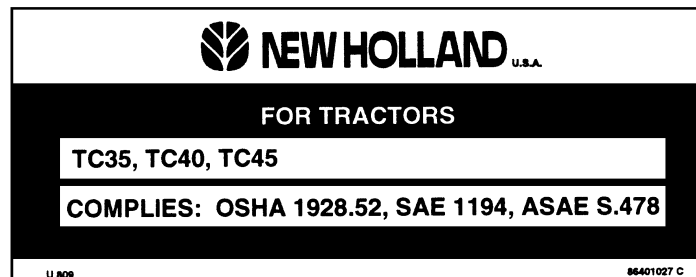
Throttle
 PART NO: FONN9N848BA
 LOCATION: Top Right Dash



Turn Signal
 PART NO: 86400176
 LOCATION: Turn Signal Switch Knob



Red Reflective Tape
 PART NO: 86400366
 LOCATION: Back Rear Fender



ROPS Certification
 LOCATION: Inner Right Upright

ECOLOGY AND THE ENVIRONMENT

Soil, air, and water are vital factors of agriculture and life in general. When 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 relative legislation applicable to your country.
- Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, antifreeze, cleaning agents, etc., with regard to their effect on man and nature and how to safely store, use and dispose of these substances. Agricultural consultants will, in many cases, be able to help you as well.

HELPFUL HINTS

1. Avoid filling tanks using cans or inappropriate pressurized fuel delivery systems which may cause considerable spillage.
2. In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of them contain substances which may 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 when draining off 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 of in a proper way to comply with local legislation and available resources.
5. Modern coolant mixtures, i.e. antifreeze and other additives, should be replaced every two years. They should not be allowed to get into the soil but should be collected and disposed of safely.
6. Do not open the air-conditioning system yourself. It contains gases which should not be released into the atmosphere. Your dealer or air conditioning specialist has a special extractor for this purpose and will have to recharge the system properly.
7. Repair any leaks or defects in the engine cooling or hydraulic system immediately.
8. Do not increase the pressure in a pressurized circuit as this may lead to a component failure.
9. Protect hoses during welding as penetrating weld splatter may burn a hole or weaken them, allowing the loss of oils, coolant, etc.

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