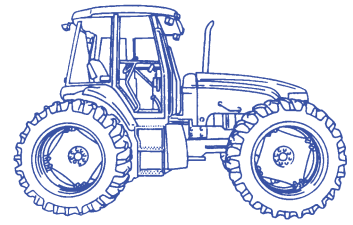


NEW HOLLAND  
TV140

86562957 3/98

OPERATOR'S MANUAL



NEW HOLLAND

## TO THE OWNER:

The warranty coverage that is extended to your tractor is explained in the Warranty and Limitation of Liability form. Your dealer will provide you with a copy of the warranty and retain a copy which you have signed. After you read the warranty, ask your dealer to explain any points that you may not understand.

This tractor was designed to power and propel itself. It is intended for use in normal and customary agricultural and light duty commercial applications.

Do not modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor function without first consulting an authorized New Holland dealer. If you have any questions regarding tractor modifications, contact New Holland North America, Inc., 500 Diller Ave., New Holland, PA 17557.

A safety cab incorporating a Roll Over Protection Structure (ROPS) and a seat belt are standard equipment for the tractor. A safety cab/ROPS is effective in reducing injuries during tractor overturn accidents. Overturning a tractor without a ROPS can result in serious injury or death. If your tractor is not equipped with a seat belt, see your New Holland dealer.

Your safety and the safety of those around you depends upon the care and good judgment you use while operating this equipment. Read the safety precautions carefully.

For a complete list of the delivery service checks performed by your dealer, refer to DELIVERY REPORT in this manual. The first copy is your record of the service performed and the second copy, which is to be removed from the manual, is your dealer's record. **MAKE SURE THAT YOU AND THE DEALER SIGN BOTH COPIES.**

After you have operated the tractor for 50 hours, take your tractor and this manual to your selling dealer. He will perform the factory recommended 50-hour service. You will be responsible for the cost of lubricants, fluids, filters and other items replaced as part of normal maintenance. Prior to taking the tractor to your selling dealer for service, it is recommended that you contact them to determine any other charges for which you may be responsible.

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 New Holland dealer.



**CAUTION: THIS SYMBOL IS USED THROUGHOUT THIS BOOK WHENEVER PERSONAL SAFETY IS INVOLVED. TAKE TIME TO READ AND FOLLOW THE INSTRUCTIONS. BE CAREFUL!**

**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.

**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.**



**NEWHOLLAND WARRANTY AND LIMITATION OF LIABILITY - AGRICULTURAL PRODUCTS**

**COVERAGE PROVIDED**

New Holland North America, Inc. or New Holland Canada, Ltd., hereinafter called "Company" warrants to the retail purchaser of each new Product (as listed below) that the Selling Dealer will repair or replace any part thereof found to be defective in materials or workmanship within the following periods. This warranty is for the benefit of the original or subsequent purchaser when purchased from an authorized New Holland dealer.

**BASIC WARRANTY**

Product	Warranty Period (whichever comes first)
— Harvesting, Materials Handling Equipment and Implements	12 Months
— Extended New Holland Engines Warranty for Self Propelled Harvesting Products*	24 Months or 2000 Hours
— Compact Tractors, Model 1530, 1630, 1725 and 1925	24 Months or 1500 Hours
— Extended Power Train Warranty**	36 Months or 1500 Hours
— Tractors, 1000 thru 8000 Series (except as noted), Model 9030 and SP Windrower	12 Months
— Extended Power Train Warranty**	24 Months or 2000 Hours
— Tractors, 8030 and 8070 Series	36 Months or 3000 Hours
— Articulated 4 Wheel Drive Models (except Model 9030) and Auger Headers	24 Months or 2000 Hours
— Replacement Parts	90 days or to end of Basic Warranty (whichever is longer)

\*Allison transmissions, Caterpillar, Cummins and Deutz engines are warranted by their respective manufacturers.  
\*\*The components covered by extended warranty consists of the following:

**ENGINE** - The rocker arm cover, crankshaft seals, cylinder head, engine block, crankcase pan and timing gear cover of the engine, and the parts fully enclosed within these units.

**TRANSMISSION AND REAR AXLE** (Tractors and SP Windrowers) - The clutch housing (excludes clutch), transmission case, dual power housing, differential housing, differential pinion, PTO seals, final drive housings, transfer case, front wheel drive housing, and parts fully enclosed within these housings, including the drive axles. Includes PTO clutch and PTO drop box, hydrostatic pump/motor and high pressure hoses on the Model 9030 tractors and SP Windrowers.

**LIMITATIONS, INCLUDING DISCLAIMER OF IMPLIED WARRANTIES AND CONSEQUENTIAL DAMAGES**

This warranty gives you specific legal rights and you may also have other rights which vary, depending on state or provincial laws.

New Holland North America, Inc. or New Holland Canada, Ltd. does not authorize any person or dealer to create for it any other obligation or liability in connection with these products. TO THE EXTENT ALLOWED BY LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS APPLICABLE TO THIS PRODUCT IS LIMITED TO THE STATED DURATION OF THIS WRITTEN WARRANTY. NEITHER COMPANY NOR THE SELLING DEALER SHALL BE LIABLE FOR LOSS OF THE USE OF THE PRODUCT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS OR CONSEQUENTIAL DAMAGES.

Some states and provinces do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

The remedy of repair or replacement of a defective part during the warranty period herein specified shall be the purchaser's exclusive remedy.

**EXTENDED SERVICE PLAN (ESP)**

When offered by the Company, the option to purchase an Extended Service Plan has been explained and:

- I accept and have signed the completed registration form
- I decline the Extended Service Plan
- I will consider within 180 days (12 months on 8070 series)

**PROTECTIVE EQUIPMENT**

Rollover protective structure (ROPS) and seat belts are provided as standard equipment on all New Holland agricultural tractors and we strongly recommend their use. Customers who elect to remove or not use this protection do so at their own risk.

- I acknowledge the existence of OSHA regulations pertaining to ROPS. \_\_\_\_\_
- A PTO master shield, if applicable, has been installed on the machine. \_\_\_\_\_
- The correct Operator's Manual has been furnished. \_\_\_\_\_
- Safety precautions were explained to me by the Selling Dealer. \_\_\_\_\_

**ACKNOWLEDGEMENT/WARRANTY TRANSFER**

The blank spaces under "Protective Equipment" have been filled in and are correct, and I acknowledge that I have read and I accept this Warranty and Limitation of Liability.

Purchaser _____	Dealer _____	Code _____
Address _____	Address _____	
City _____ State _____ Zip _____	City _____ State _____ Zip _____	
Model _____ Serial No. _____	Retail Date _____ / _____ / _____	
Attachment Model _____ SN _____	Extended Service Plan Expires on _____ / _____ / _____	(Subject to confirmation by NH)
Attachment Model _____ SN _____		
Purchaser _____ Date _____	Dealer _____ Date _____	
Signature	Signature	

---

# New Holland Warranty Detail

The warranty period will begin on date of original retail sale or date of original use, whichever is earlier.

- The obligation of Company to the purchaser under this warranty is limited to the repair or replacement of defective parts by an authorized New Holland dealer and will be done free of charge for both parts and labor using genuine New Holland replacement parts. Repair or replacement in accordance with this warranty shall constitute fulfillment of all liabilities of Company and the Selling Dealer in respect to such Products.
- Repairs or replacements will be performed by the Selling Dealer, following delivery of the Product by the purchaser to the Dealer's place of business. When the purchaser has moved a long distance from the Selling Dealer, or the Selling Dealer is no longer in business, any New Holland dealer authorized to sell and service the described Products may perform the repair at its dealership.
- The Selling Dealer shall review these warranty provisions with the purchaser prior to retail sale, secure his acknowledgement of delivery of this warranty and record the date of original retail sale or date of original use.
- To obtain warranty service, the purchaser must (1) report the product defect to an authorized New Holland dealer and request repair within the applicable warranty term and (2) present evidence of the warranty start date.

## WHAT IS NOT COVERED BY THE WARRANTY?

This warranty shall NOT apply under the following conditions:

- (i) With respect to vendor warranty items such as Allison transmissions and Deutz, Cummins and Caterpillar engines, or tires, tubes, and attachments which shall be warranted by their manufacturer, or local representative thereof.
- (ii) If the unit has been subject to misapplication, abuse, misuse, negligence of proper maintenance or other negligence, fire or other accident.
- (iii) If parts or attachments other than those made or marketed by New Holland North America, Inc. or New Holland Canada, Ltd., have been used in connection with the unit, and in the sole judgment of Company such use affects its performance, stability or reliability.
- (iv) If the unit has been altered or repaired outside of a New Holland dealership in a manner which, in the sole judgment of Company, affects its performance, stability or reliability.
- (v) Batteries are covered by a separate pro rata adjustment warranty. The pro-rata plan covers the battery fully for the basic product warranty period as indicated, with any remaining warranty pro-rated according to the months of service.
- (vi) The purchaser shall be responsible for payment of dealer travel time to the machine or to deliver the machine to the dealer's service shop for repair. New Holland warranty does not cover delivery charges or travel time.
- (vii) The Company shall have no liability for used equipment sold beyond the specified coverage period.
- (viii) No warranty shall apply to damage resulting from accident or damage caused by environment (such as exposure to corrosive material). The Company shall not be responsible for rental equipment used to replace the equipment being repaired.
- (ix) This warranty shall NOT apply to normal maintenance services (such as tune-ups, fuel injection system cleaning or wheel, brake and clutch adjustments), to normal replacement of service items (such as filters and brake or clutch linings), or to normal deterioration due to use or exposure (such as belts and exterior finish). New Holland shall not be responsible for normal replacement parts such as cutting knives, chains, belts, clutches, filters, oil, or other parts which are worn out, unless they are determined to be defective in material or workmanship.
- (x) This warranty shall NOT apply to any New Holland Product which is retailed or distributed by anyone other than New Holland North America, Inc. or New Holland Canada, Ltd., through its authorized dealers. This warranty shall NOT apply to any Product which is normally operated outside of the United States, and/or Canada.
- (xi) This warranty shall NOT apply if the purchaser, insurance company, or any other entity or individual acting on behalf of the purchaser seeks reimbursement for the dollar value of the repair(s) or replacement(s) covered under this warranty.
- (xii) If the injection pump has been set for fuel delivery above New Holland specifications.

## RIGHT TO MAKE DESIGN CHANGES

Company reserves the right to make changes in the design and other changes in its products at any time and from time to time without notice and without incurring any obligation with respect to any product previously ordered from it, sold or shipped by it.

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# CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

## Your Warranty Rights and Obligations

The California Air Resources Board and New Holland are pleased to explain the emission control system warranty on your engine. In California, new 1997 and later heavy-duty off-road engines from 100 to 150 HP must be designed, built, and equipped to meet the State's stringent anti-smog standards. New Holland must warrant 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 includes parts such as the fuel injection system and the air induction system.

Where a warrantable condition exists, New Holland will repair your heavy-duty off-road engine at no cost to you, including diagnosis, parts, and labor.

### Manufacturer's Warranty Coverage:

The 1997 and later heavy-duty off-road engines are warranted from the original date of delivery for five years or 3,000 hours of operation, whichever occurs first. If any emission-related part on your engine is defective, the part will be repaired or replaced by New Holland.

### Owner's Warranty Responsibilities:

- As the heavy-duty off-road engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. New Holland recommends that you retain all receipts covering maintenance on your heavy-duty off-road engine, but New Holland cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the heavy-duty off-road engine owner, you should, however, be aware that New Holland may deny you warranty coverage if your heavy-duty off-road engine or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.
- Your engine is designed to operate on commercially available diesel fuel only. Use of any other fuel may result in your engine no longer operating in compliance with California's emissions requirements.
- You are responsible for initiating the warranty process. The ARB suggests that you present your heavy-duty off-road engine to a New Holland dealer as soon as a problem exists. The warranty repairs should be completed by the dealer as expeditiously as possible.

If you have questions regarding your warranty rights and responsibilities, you should contact your Branch Office at the address and phone number listed on the Owner Assistance page of your equipments operator manual.

- Prior to the expiration of the warranty, you must give notice of any failure of an emission control warranted part. Such notice must be given to New Holland or an authorized dealer, and you must deliver the engine to the repair location.
- You, the owner, are responsible for incidental costs incurred by yourself or your employees as a result of a warrantable failure. Examples of such costs are communication expenses, meals and lodging.
- The owner is responsible for any business costs or losses, any "downtime" expenses and any "cargo" damage which result from the failure of a warranted part. New Holland is not responsible for other incidental or consequential damages, including but not limited to fines, theft, vandalism or collisions.

### Parts covered:

This emission control system warranty applies to the following emission control parts.

Fuel Injection Pump  
Fuel Injectors  
Turbocharger  
Intake Manifold  
Exhaust Manifold  
Boost Pressure Tubing-connection to Aneroid Device ON F.I.P.

Any replacement part, equivalent in performance and durability, may be used in the performance of any maintenance or repairs and must be provided without charge to the owner. The use of these parts does not reduce the warranty obligations of New Holland. However, New Holland recommends the use of new, genuine New Holland service parts or New Holland approved rebuilt parts and assemblies. New Holland also recommends that the engine be serviced by a New Holland authorized dealer.

### New Holland Responsibilities

Warranty work will be provided at no charge to the owner at any authorized dealer, using new genuine New Holland service parts or New Holland approved rebuilt parts or assemblies..

The owner will not be charged for diagnostic labor which leads to the determination that a warranted part is defective, if the diagnostic work was performed at a warranty station.

New Holland is liable for damages to other engine components caused by the failure under warranty of any warranted part.

### Warranty Limitations

New Holland is not responsible for failures resulting from abuse or neglect by owner or operator.

New Holland warrants to the ultimate purchaser and each subsequent purchaser that the engine is designed, built, and equipped so as to conform with all applicable regulations adopted by the Air Resources Board, and that it is free from defects in materials and workmanship which cause the failure of a warranted part.

Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" is warranted for the warranty period.

Any warranted part which is scheduled for replacement as required maintenance is warranted for the period of time prior to the first scheduled replacement point for that part.

New Holland is liable for damages to other engine components caused by the failure under warranty of any warranted part.

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## FEDERAL EMISSIONS WARRANTY

(California owner's emissions warranty is covered elsewhere)

New Holland warrants that your new 1996 and later heavy-duty off-road diesel engine was designed, built, and equipped to conform to applicable U.S. Environmental Protection Agency regulations for a period of use of five years or 3,000 hours of operation, whichever occurs first.

The new model year, class of diesel engine, and emission application determination for your engine are identified on the emission control information label affixed to the top of your engine's rocker arm cover. The warranty period begins on the date the new equipment is sold to the first retail purchaser.

Any emission control system parts which are proven defective during normal use will be repaired or replaced during the warranty period. The warranty repairs and service will be performed by any authorized New Holland dealer at the dealer's place of business, with no charge for parts or labor (including diagnosis).

As the engine owner, you are responsible to perform all the required maintenance listed in your owner's manual. New Holland will not deny an emission warranty claim solely because you have no record of maintenance; however, a claim may be denied if your failure to perform maintenance resulted in the failure of a warranted part. Receipts covering regular maintenance should be retained in the event of questions and these receipts should be passed on to each subsequent owner of the engine.

It is recommended replacement parts used for maintenance or repairs be New Holland Service Parts to maintain the quality originally designed into your emission certified engine. The use of non-New Holland parts does not invalidate the warranty on other components unless the use of such parts causes damage to warranted parts.

New Holland wishes to assure the emission control systems warranty is being properly administered. If you believe you have not received the service entitled to under this warranty, you should contact the nearest New Holland Branch Office for assistance. The address and phone number of each Branch Office is in your vehicle owner's manual. If additional assistance or information is needed, contact:

Service Department  
New Holland North America, Inc.  
500 Diller Avenue  
New Holland, PA 17557  
(717) 355-1121

Please note that the Emission Warranty does not cover:

1. Systems and parts that were not first installed on the new equipment or engine as original equipment by New Holland.
2. Part malfunctions caused by abuse, misuse, improper adjustment, modification, alteration, tampering, disconnection, improper or inadequate maintenance, or use of non-recommended fuels and lubricating oils.
3. Accident caused damage, acts of nature, or other events beyond New Holland's control.
4. Replacement of expendable items made in connection with scheduled maintenance.
5. Parts requiring replacement, inspection or adjustment maintenance intervals for reasons other than being defective.
6. Parts which are not New Holland Service Parts.
7. Loss of time, inconvenience, loss of use of equipment/engine or commercial loss.
8. Equipment with altered or disconnected hourmeter where the hours cannot be determined.
9. Equipment normally operated outside the United States.
10. Non-defective parts replaced by other than New Holland dealers.

### Coverage

This emission control system warranty applies to the following emission control parts.

Fuel Injection Pump  
Fuel Injectors  
Turbocharger  
Intake Manifold  
Exhaust Manifold  
Boost Pressure Tubing-connection to Aneroid Device ON F.I.P.

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# OWNER ASSISTANCE

We at New Holland and your New Holland dealer want you to be completely satisfied with your investment. Normally any problems with your equipment will be handled by your dealer's Service Department. Sometimes, however, misunderstanding can occur. If your problem has not been handled to your satisfaction, we suggest the following.

1. Contact the owner or General Manager of the dealership, explain the problem, and request assistance. When additional assistance is needed, your dealer has direct access to our branch office.
2. If you cannot obtain satisfaction by doing this, contact the branch office in your area and provide them with:
  - Your name, address, and telephone number
  - Machine model and serial number
  - Dealership name and address
  - Machine purchase date and amount of use
  - Nature of problem

## **Atlanta**

4727 N Royal Atlanta Dr Suite P  
Caller Service 105018  
Tucker, GA 30085-5018  
Telephone: (770) 723-3605  
States: AL, FL, GA, KY, MS,  
NC, SC, TN, VA

## **Dallas**

1340 Walnut Hill Lane Bldg 2  
P.O. Box 167528  
Irving, TX 75016-7528  
Telephone: (972) 756-4919  
States: AR, AZ, CA, CO, HI, KS,  
LA, MO, NM, NV, OK, TX, UT

## **Minneapolis**

6301 W Old Shakopee Rd  
P.O. Box 386150  
Minneapolis, MN 55438-6150  
Telephone: (612) 887-4231  
States: AK, IA, ID, IL, MN, MT,  
ND, NE, OR, SD, WA, WI, WY

## **New Holland**

200 Commerce St.  
P.O. Box 527  
Mountville, PA 17554-0527  
Telephone: (717) 285-8302  
States: CT, DE, IN, MA, MD, ME,  
MI, NH, NJ, NY, OH, PA, RI, VT,  
WV

## **Calgary**

Suite 220  
3030 Third Ave. NE  
Box 1616, Stn M  
Calgary, AB  
CANADA T2P 2M7  
Telephone: (403) 569-3208

3. If you need further assistance contact:

*Service Department  
Mail Station 500  
New Holland North America, Inc.  
New Holland, PA 17557*

When contacting your branch office or Service Department, be aware that your problem will likely be resolved in the dealership using the dealer's facilities, equipment, and personnel. So it is important that your initial contact be with the dealer.

A Service Publications Catalog & Order Form is available which lists the operator's and service manuals for many prior model and most current model Ford - New Holland - Versatile tractors, equipment, and consumer products. To obtain a copy of this catalog, please call 1-800-635-4913.

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# PRECAUTIONARY STATEMENTS

## PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements (“CAUTION”, “WARNING” and “DANGER”), 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.



**CAUTION: THE WORD “CAUTION” IS USED WHERE A SAFE BEHAVIORAL 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 HAS A POTENTIAL FOR SERIOUS INJURY. IT IS USED TO WARN OPERATORS AND OTHERS TO EXERCISE EVERY APPROPRIATE MEANS TO AVOID A SURPRISE INVOLVEMENT 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 DEATH.**

## MACHINE SAFETY

Additional precautionary statements (“ATTENTION” and “IMPORTANT”), are followed by specific instructions. These statements are intended for machine safety.

*ATTENTION: The word “ATTENTION” is used to warn the operator of potential machine damage if a certain procedure is not followed.*

*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.*

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# SAFETY

## PRECAUTIONARY STATEMENTS

National Safety Council statistics indicate many people die or suffer serious injury each year as a result of farm accidents.

Don't become a statistic or victim.

Carefully review the procedures given in this manual with all operators **ANNUALLY**. It is important that all operators be familiar with **AND FOLLOW** safety precautions.

Operating instructions must be given to everyone using the tractor before operation and at least once yearly thereafter in compliance with OSHA Regulation 1928.57 (United States).

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 operating the tractor. Equipment should be operated only by those who are responsible and instructed to do so.

### 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. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
4. Replace all missing, illegible or damaged safety decals.
5. Keep safety decals free of dirt or grime.
6. Do not modify, alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting an authorized New Holland dealer.
7. Install all shields before starting or operating the tractor.

To provide a better view, certain photos and illustrations in this manual show safety shields removed. It is important that the machine never be operated this way. Keep all shields in place.

8. Never jump from the tractor. There is a danger of catching clothing on protruding parts.
9. Always disengage the differential locks when driving the tractor on the road.

### DRIVING THE TRACTOR

1. Always sit in the driver's seat while starting or driving the tractor.
2. Lock the rotating seat console in position and buckle the seat belt before operating the tractor.
3. When driving on public roads, have consideration for other road users. Pull to the side of the road so that any following traffic may pass.
4. Dim 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 engine speed before turning or applying the brakes.
6. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.
7. 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.
8. Never apply the differential locks when turning. When engaged, the differential lock will increase the effort required to turn the tractor and increase the turning radius.

- 
9. Use extreme caution when operating on steep slopes.
  10. 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.
  11. Keep the tractor in the same transmission range when going downhill as would be used when going uphill.
  12. When descending steep grades, select a sufficiently slow speed to maintain control with minimum braking.
  13. Drive the tractor slowly on hillsides and curves to eliminate the danger of tipping. Avoid slopes which are too steep for safe operation. Avoid sharp uphill turns.
  14. When driving out of a ditch, gully or up a steep hillside, engage the hydrostatic control lever slowly. Avoid sharp uphill turns.
  15. Use caution when driving near the edge of a ditch or gully. It may cave in, causing the tractor to roll over.
  16. Before transporting the tractor and implement on public roadways, check with authorities for local regulations.
  17. Drive the tractor in the engine forward configuration when driving on roads or transporting implements.
  18. Equip towed implements with slow-moving vehicle (SMV) signs when traveling on public roads.
  19. Install additional lights on implement rear to safeguard against rear end collisions. Daybreak and dusk are particularly dangerous. New Holland Versatile tractors have seven-pin trailer connectors to facilitate installation of extra lighting.
  20. Be aware of the transport width of towed implements. Install additional lights to the sides of wide implements to alert passing traffic. Keep clear of the approaching lane.
  21. Use hazard warning flashers, as required by law, when transporting or driving the tractor on public roads.
  22. Use extreme caution when pulling heavy loads at road speeds. Avoid hard application of the tractor brakes at high speed.
  23. The TV140 tractor is equipped with a hydrostatic transmission which can provide dynamic braking. Use caution moving the hydrostatic control lever towards neutral. Reduce the engine speed when preparing to stop by moving the throttle control towards the idle position. Slowly move the hydrostatic control lever to the neutral position.

## OPERATING THE TRACTOR

1. Before starting the tractor apply the parking brake, place the PTO controls in the "OFF" position, the lift controls in the down position, the remote control valve levers in neutral, the hydrostatic control lever in neutral, and the auxillary hydraulic drive switch in the "OFF" position.
2. Do not start the engine or operate cab controls while standing beside the tractor. Always sit in the tractor seat when starting the engine or operating the cab controls.
3. Do not bypass the tractor's neutral start circuit. Consult your authorized dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in a tractor runaway.
4. Avoid accidental contact with the hydrostatic control lever or range control switch 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. Shut off the engine and PTO's and apply the parking brake before getting off the tractor.
7. Do not park the tractor on a steep incline.

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8. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death.
  9. The cab air filters are designed to remove dust from the air but will not exclude chemical vapor. Follow the chemical manufacturer's directions regarding protection from dangerous chemicals.
  10. Always wear a protective mask when working with toxic chemicals. Follow the directions on the chemical container.
  11. If the power steering or engine ceases to operate, stop the tractor immediately as the tractor will be more difficult to control.
  12. Stop the engine and relieve pressure before connecting or disconnecting hydraulic, steering, coolant or fuel lines.
  13. Pull only from the swinging drawbar. Use only a drawbar pin that is retained in place. Pulling from the tractor axle or any point above the axle may cause the tractor to overturn.
  14. Be sure hydraulic couplers are properly connected and will disconnect safely in case of accidental detachment of the implement.
  15. Do not leave equipment in the raised position when the vehicle is stopped or unattended.
  16. Ensure any attached equipment or accessories are correctly installed, are approved for use with the tractor and are operated and maintained in accordance with the instructions issued by the equipment or accessory manufacturer.
  17. 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.
  18. The cab is designed to provide the minimum noise level at the operator's ears and, in fact, meets or exceeds applicable standards in this respect. However, noise (sound pressure level) in the workplace can exceed 86dB(A) when the cab windows are open. Therefore, it is recommended that the operators wear suitable ear protectors when operating in high noise level conditions.
  19. Always keep sleeves, jackets or other clothing relatively tight and belted. Loose clothing may catch in moving parts and result in personal injury or death.
  20. Use steps and handholds when mounting and dismounting the tractor or for servicing components too high to reach from the ground.
  21. Lock the seat in position and buckle your safety belt before operating the tractor.
  22. Do not operate the tractor when you are tired, sick or impaired in any way.
  23. Never operate the tractor in confined areas or when visibility next to the tractor is reduced. Injury to bystanders or damage to the tractor or equipment may result.
  24. When hitching drawn equipment to the drawbar, only allow an assistant between the tractor and implement if the tractor engine is off, the FNR lever is in neutral and the parking brake is engaged.
  25. Do not leave implements with the hydraulic cylinders fully extended or retracted where the heat from the sun can cause the hydraulic fluid to expand. Hydraulic pressure can rupture the hoses, releasing high pressure oil causing personal injury.
  26. Be careful when turning with an implement. If possible, lift it from the ground during turns. Side thrust caused by the implement could damage the tire and implement.
  27. Use transport locks, lower the implement to the ground and securely block the frame before servicing the implement. Relieve pressure from the hydraulic system and shut off the tractor.
  28. Never attach any PTO, three point hitch or drawbar equipment to the cab end of the tractor when the loader is attached.

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## **OPERATING THE PTO**

1. When operating PTO-driven equipment, shut off the engine and wait until the PTO(s) stop 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 using the PTO in stationary applications be sure the articulation lock is engaged, the parkbrake is set, the hydrostatic control lever is in neutral, and the wheels are blocked front and rear. Do not leave the tractor unattended. If you must leave the tractor for any reason, stop the tractor and remove the key.
4. To avoid injury, do not clean, adjust, unclog or service PTO driven equipment when the tractor engine is running.
5. Make sure all PTO shields are in position at all times.
6. Take special care when hooking-up implements to the PTO.
7. Never start the tractor with the PTO engaged.

## **SERVICING THE TRACTOR**

Most accidents can be avoided by observing safety precautions while servicing the tractor. To help prevent accidents, read and take the following precautions before 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 the pressure to escape before removing the cap entirely. Wear gloves when removing the cap.

2. Do not smoke while refueling 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 the 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 suffer severe frost bite or injury from escaping refrigerant. Special equipment and instruments are required to service the air conditioning system. See your authorized New Holland dealer for service.
6. Stop the engine before performing any service on the tractor.
7. Escaping diesel/hydraulic fluid under pressure can penetrate the skin causing 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 pressurizing lines.
  - If fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
8. Do not modify, alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting an authorized New Holland dealer.

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