ENGINE

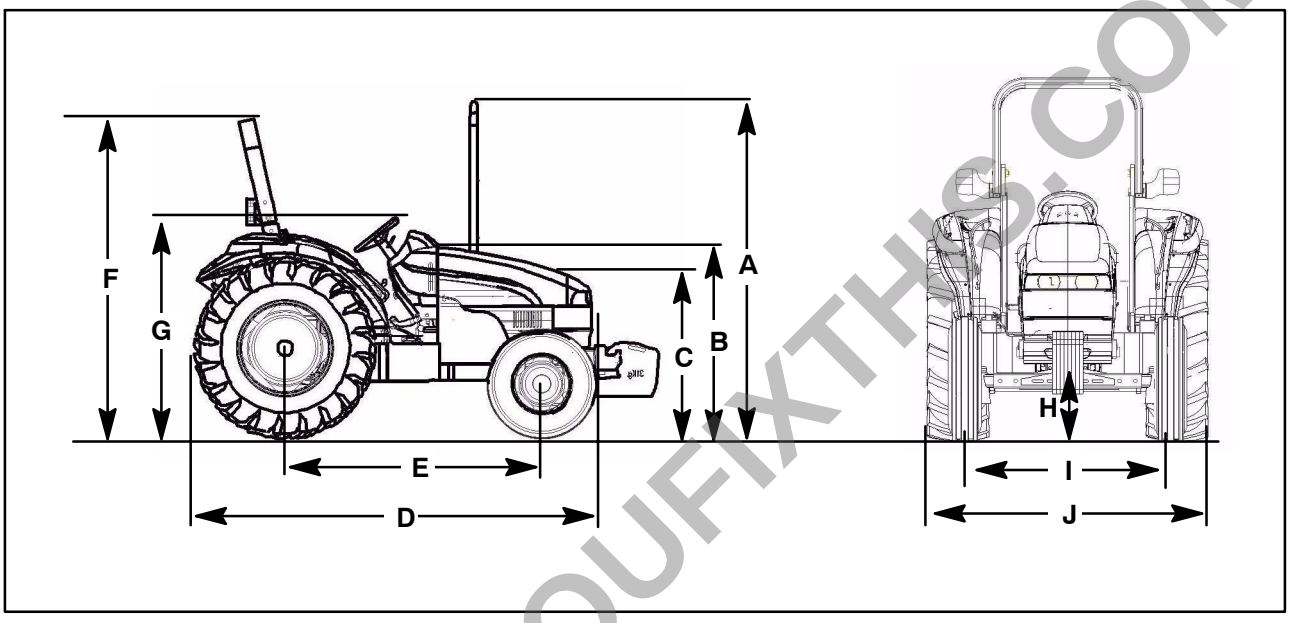
PROBLEM	POSSIBLE CAUSE	SOLUTION
The engine will not start or is difficult to start.	Incorrect starting procedure.	See starting procedure.
	Fuel level low or empty.	Check fuel level.
	Air in fuel system.	Bleed fuel system.
	Engine oil viscosity not right.	Use oil of right viscosity.
	Fuel not suitable for ambient temperature.	Use correct type of fuel for temperature conditions.
	Fuel system contaminated.	Clean system.
	Fuel filter clogged.	Replace filter element.
	Fuel injector fault.	Contact your dealer.
The engine does not run properly and/or cuts out.	Sedimenter or fuel filter clogged.	Clean sedimenter and replace filter.
	Fuel system contaminated.	Clean system.
	Fuel injector fault.	Contact your dealer.
Engine does not reach maximum power.	Engine overload.	Change to lower gear or reduce load.
	Air filter clogged.	Carry out maintenance on air filter.
	Fuel filter clogged.	Replace filter element.
	Incorrect fuel type.	Use the right fuel.
	Engine overheating.	See engine overheating.
	Low engine operating temperature.	Check thermostat.
	Fuel injector fault.	Have your dealer check the injectors.
	Implement incorrectly set.	See equipment manual.
	Valve clearance wrong.	Check and adjust.
	Idling speed too low.	Contact your dealer.

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SECTION 5
SPECIFICATIONS

The data on the following pages is for your information and guidance. For further details concerning your tractor, contact your authorized New Holland dealer.



2WD TRACTOR DIMENSIONS	TT55	TT55 L.C.G	TT75	TT75 L.C.G
Standard Front Tires	9.5–15	9.5–15	9.5–15	9.5–15
Standard Rear Tires	14.9–28	14.9–28	16.9–30	14.9–28
A (Height of Exhaust)	2489 mm (98.0 in.)	2362 mm (93.0 in.)	2540 mm (100.0 in.)	2362 mm (93.0 in.)
B (Height of Hood High)	1562 mm (61.5 in.)	1435 mm (56.5 in.)	1613 mm (63.5 in.)	1435 mm (56.5 in.)
C (Height of Hood Low)	1397 mm (55.0 in.)	1270 mm (50.0 in.)	1448 mm (57.0 in.)	1270 mm (50.0 in.)
D (Length from Front Tire to Back of Rear Tire)	3137 mm (123.5 in.)	3099 mm (122.0 in.)	3315 mm (130.5 in.)	3226 mm (127.0 in.)
E (Length Between Axle Centers)	2057 mm (81.0 in.)	2019 mm (79.5 in.)	2184 mm (86.0 in.)	2046 mm (84.5 in.)
F (Height of ROPS)	2540 mm (100.0 in.)	2413 mm (95.0 in.)	2591 mm (102.0 in.)	2413 mm (95.0 in.)
G (Height of Steering Wheel)	1702-1778 mm (67.0 -70.0 in)	1575-1651 mm (62.0-65.0 in.)	1753-1829 mm (69.0-72.0 in)	1575-1651 mm (62.0-65.0 in.)
H (Clearance)	394 mm (15.5 in.)	267 mm (10.5 in.)	445 mm (17.5 in.)	279 mm (11.0 in.)
I (Front Wheel Track Widths)	1422-1930 mm (56.0-76.0 in.)	1422 mm (56.0 in.)	1422 mm (56.0 in.)	1422 mm (56.0 in.)
J (Rear Wheel Track Widths)	1524-1930 mm (56.0-60.0 in.)	1829 mm (72.0-76.0 in.)	1880 mm (74.0 in.)	1880 mm (74.0 in.)

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LUBRICATION AND MAINTENANCE CHART

This chart lists all necessary routine lubrication and maintenance checks, cleaning, adjustments, and replacements. Use the chart as a quick reference guide when servicing the tractor at the recommended intervals. The chart refers you to the operation number where the procedure is explained in detail.

With Warning Light On —

Operation Number	Procedure	Action
1	Engine oil level / pressure	Check, Fill
2	Radiator coolant level / high coolant temperature	Check, Fill
3	Dry air cleaner restriction	Clean
4	Alternator charge	Clean

Every 10 Hours (or Daily) —

Operation Number	Procedure	Action
1	Engine oil level	Check
2	Radiator coolant level	Check
3	Air cleaner and split burp valve	Clean
5	Hydrostatic steering oil level	Check
6	Drain fuel filter/water separator	Clean

Every 50 Hours (or 1 Month) —

Operation Number	Procedure	Action
3	Dry air cleaner filters	Check, Clean
7	Clutch pedal free play	Check, Adjust
8	Tire pressure and condition	Check, Fill
9	All grease fittings	Lubricate
10	Battery	Check, Fill
11	Brakes and parking brake	Check, Adjust
12	Wheel nut tightness	Check, Adjust

Every 200 Hours (or 3 Months) —

Operation Number	Procedure	Action
13	Engine oil and filter*	Change
14	PTO clutch*	Check, Adjust
15	ROPS safety frame bolts*	Check, Adjust
16	Fan/alternator belt*	Check, Adjust
17	Primary fuel filter and primer pump filter*	Change, Clean
18	Front ballast weight bolt tightness*	Check, Adjust

Every 400 Hours (or 6 Months) —

Operation Number	Procedure	Action
19	Dry air cleaner outer filter	Replace
20	Transmission/hydraulics/rear axle oil level*	Check, Fill
21	Rear final drive oil levels*	Check, Fill
22	Front axle/differential oil level (4WD)*	Check, Fill
23	Front wheel hub oil levels (4WD)*	Check, Fill
24	Hydraulic oil filter	Replace
25	Hydrostatic steering filter	Clean
26	Front wheel bearings (4WD)	Lubricate

* Also performed during at the end of the running-in period, after the first 50 hours.

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SECTION 2
OPERATION

BEFORE USING THE TRACTOR

Read this section carefully before operating the tractor. If you want to use the tractor correctly and efficiently, this section will help. Here you will find all the information you need to locate and use the tractor controls and options.

Even if you have experience operating other tractors, you should read this section carefully, in full, to become familiar with the exact configuration of this tractor.

After reading this section, make sure that you know the layout and operation of all the controls, as well as the important specifications affecting day-to-day operation.

Never start the engine or operate the tractor without being completely familiar with all the controls. Discovering what you don't know after the tractor is moving might be too late.

If you have any questions or doubts about operating the tractor, don't hesitate to contact an authorized dealer.

Pay particular attention to follow the running-in recommendations. Taking these minor steps during running-in will provide the best reliability throughout the entire service life of your tractor. For more on how to maintain your tractor throughout its service life, study Section 3 carefully. Section 3 details all the recommended lubrication and maintenance procedures that will provide a long life for your tractor. Troubleshooting the tractor is covered in Section 4 and tractor specifications are covered in Section 5.

⚠ CAUTION ⚠

Before starting the engine and moving the tractor, follow these precautions:

- **Do not start or operate the tractor in an enclosed space.**
- **Make sure all controls are in neutral before starting the tractor.**
- **Operate all controls *only* when you are seated in the driver's seat.**
- **Stop the engine before performing any service or maintenance operations.**
- **Use the step for getting on and off the tractor.**
- **Keep all safety guards properly fitted.**
- **When driving on public roads, always signal your intention to stop, turn, or slow down.**
- **Use the appropriate warning devices to indicate a slow-moving vehicle.**

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CONTROLS AND INSTRUMENTS – LOCATION AND FUNCTION

The following information identifies, locates, and describes the functions of the controls and instruments located in the operator's area.

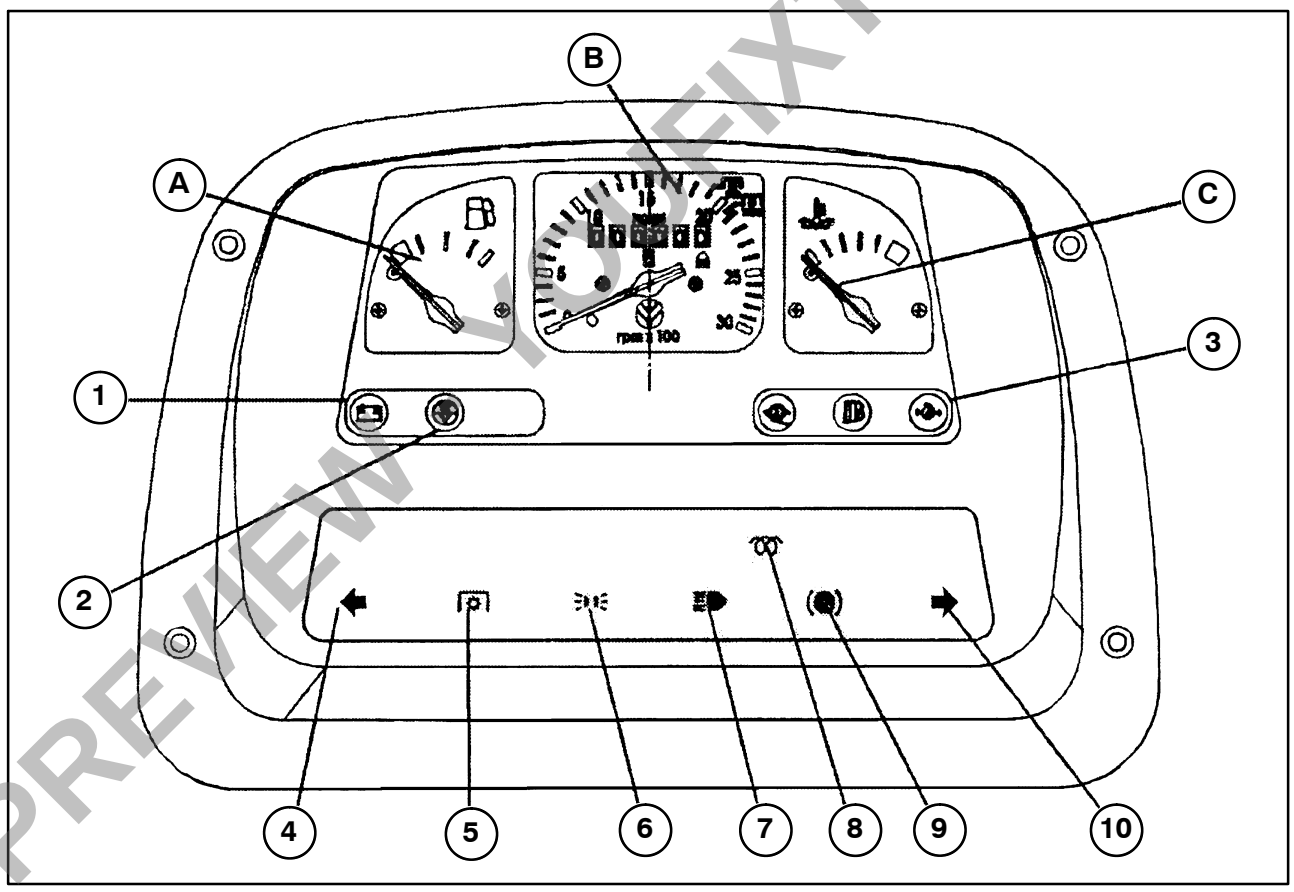
This section covers the controls and instruments in this order:

- Instrument Panel
- Control Switches
- Hand Controls
- Attachment Controls
- Parking Brake Lever
- PTO Selector Lever
- Foot Brake Pedals
- Foot Pedal Controls
- Seat Adjustments

IMPORTANT: *Use the information in this section as a reference guide and not as a replacement for the detailed information in Section 2 — Operation. For more details on the controls, instruments, and warning lights, read through all of Section 2 before operating the tractor.*

⚠ CAUTION ⚠

Do not operate the tractor until you are thoroughly accustomed to the location and operation of all controls.

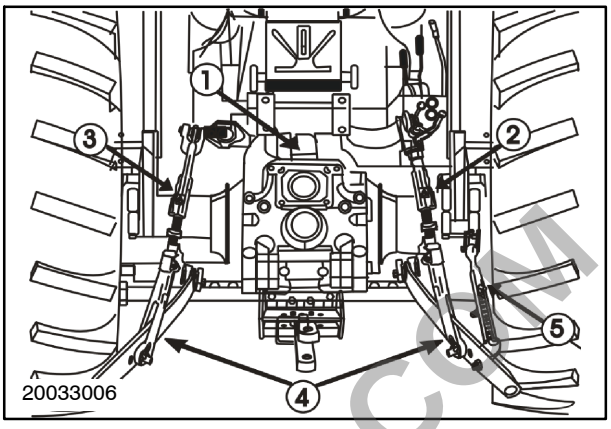


2

A. Fuel Gauge
B. Tachometer and Hourmeter
C. Engine Coolant Temperature Gauge
1. Alternator Charge
2. Air Filter Restriction
3. Engine Oil Pressure
4. Left Turn
5. PTO "ON"
6. Parking Lights
7. Lights "ON" Warning Light
8. Thermostart
9. Parking Brake
10. Right Turn

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THREE-POINT LINKAGE



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1. Top Link Draft Sensing Spring
2. Right Side Lift Rod
3. Left Side Lift Rod
4. Lower Links
5. Stabilizer

Before attaching equipment to the tractor, check the following points:

- Ensure the stabilizer is adjusted correctly for the equipment you are attaching.
- Ensure the lift rods are in the appropriate hole in the lower links.
- When attaching close-mounted equipment, remove the swinging drawbar.

⚠ WARNING ⚠

Always operate in position control when attaching, detaching, or transporting equipment. Position control is recommended at any time when not using draft control.

Attach equipment to this tractor by following these steps:

- Find a level, firm surface to park the equipment and tractor.
- Position the tractor until lower link hitch points are level with and slightly ahead of the implement hitch pins.
- Carefully inch the tractor back to align the tractor and implement hitch pins.
- Stop the engine, insert the hitch pins, and secure with linchpins.
- Lengthen or shorten the top link until the implement mast pin inserts through the mast and top link.
- Adjust the top link to an initial setting of 685 mm (27.0 in.) between the hole centers.
- Connect the remote cylinders.

After mounting the equipment, make minor adjustments, as needed. To ensure the equipment operates properly, check and adjust the top link, the lift rods and lower links, the hydraulic lift draft sensing spring, and the check chains.

When detaching equipment, the following steps must be observed:

- Park the tractor and equipment on a level, firm surface.
- Support the equipment to prevent it from tipping or falling when detached from the tractor.
- Relieve all hydraulic pressure in the remote cylinders before unhitching.

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TOWING THE TRACTOR

IMPORTANT: *Only tow the tractor a short distance, such as out of a building. Do not tow the tractor on roadways. Do not tow the tractor to transport it any substantial distance. To transport the tractor any distance, haul the tractor with all four wheels on a flatbed trailer or truck.*

Use a strong chain for towing the tractor. Tow the tractor from the rear using only the drawbar or the three-point linkage. Tow the tractor from the front using a front support. Have someone steer and brake the tractor during the tow.

To avoid damaging the transmission or other turning components that will not be properly lubricated during towing, always:

- Release the parking brake.
- Tow only a short distance.
- Keep speed below 8 KPH (5 MPH).
- If possible, run the engine to provide lubrication and power steering.

⚠ WARNING ⚠

Never use cables or rope to tow the tractor. If the cable or rope snaps or slips, it might whip with enough force to cause serious injury. When using a chain, attach the chain with the hook side facing up, so it will drop down if it slips.

⚠ CAUTION ⚠

Never tow the tractor faster than 8 kph (5 mph) with the engine off. Steering is much slower and turning much more difficult without the engine running.

TRANSPORTING THE TRACTOR ON A FLATBED TRAILER OR TRUCK

Always transport the tractor with all four wheels on a flat bed trailer or truck. Securely chain the tractor to the trailer or truck. Use the drawbar or drawbar hanger for a rear tie down point.

IMPORTANT: *Never chain around the four-wheel drive shaft, the steering cylinders, the front wheel drive axle, or other components that could be damaged by the chain or by heavy loading.*

PRE-OPERATION CHECKS

Before operating the tractor, make sure you are thoroughly familiar with the location and operation of all the controls. Perform all daily and scheduled lubrication and maintenance in accordance with Section 3.

After completing the maintenance operations, perform a walk-around visual inspection of the tractor. Make any necessary repairs before using the tractor. Look particularly for any:

- Fan belt cracks
- Engine area debris
- Leaking or damaged hoses, lines, and fittings
- Damaged tires
- Loose hardware or connections
- Leaks or debris in the driveline and hydraulic pump areas

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CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

(North America Only)
(California Only)

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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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.

GENERAL PRECAUTIONS

1. Every measure has been taken in manufacturing this tractor to ensure you can work safely. However, the best way to avoid accidents is to exercise caution at all times.
2. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
3. Only allow properly trained and qualified persons to operate the tractor.
4. 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.
5. Read all safety decals on the machine and follow the instructions they contain before starting, operating, refuelling or carrying out maintenance on the tractor. Promptly replace any which are damaged, lost or illegible.

   Clear them if they are covered in mud or debris.
6. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra passengers.
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.
10. Do not wear loose clothes which can easily be caught up in any moving part.

    Check that all rotating parts connected to the power take-off are shielded.
11. Always operate with the cab or ROPS safety frame correctly installed on the tractor.
12. Remember, the tractor was made only for agricultural use. Any other use requires prior authorization from the company.

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FEDERAL EMISSIONS WARRANTY

(North America Only)

(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.

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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To Drain the Solution from Tires

- Raise the wheel off the ground.
- Position the tire so the valve is at the lowest position.
- Unscrew the valve seal and drain the water.
- Screw the draining connector (part no. 291886) onto the valve seal.
- Add pressurized air to the tire through the draining connector attachment, 3. The remaining water will drain from the outlet, 4.
- Remove the draining connector and replace it with the valve.
- Inflate the tire to its specified pressure.

Maximum Tire Ballasting for Safe Tractor Operation:

	Water		Calcium Chloride		Solution Weight	
Tire Size	Liters	US Gal.	kg	lbs.	kg	lbs.
9.5L - 15	42	11	25	55	67	147
7.50 - 16	28	7.4	18	40	46	102
10.00 - 16	58	15.2	34	76	92	203
7.50 - 18	36	9.5	20	45	56	124
9.5 - 24	53	14	32	70	85	187
11.2 - 24	72	19	43	95	115	253
12.4 - 24	93	25	55	125	148	335
13.6 - 24	114	30	68	150	182	400
14.9 - 24	144	38	86	190	230	510
13.6 - 28	132	35	79	175	212	467
14.9 - 28	163	43	98	215	260	574
16.9 - 28	212	56	127	280	339	747
16.9 - 30	223	59	132	292	355	782
18.4 - 30	273	72	163	360	436	960

Limits on the amount of water ballasting weight you can safely add are detailed in the chart. The recommended calcium chloride concentration is 0.6 kg per liter of water (5 lbs. per US gallon). The figures in the chart will give you a 90% fill of front tires or a 75% fill of the rear tire.

⚠ WARNING ⚠

The calcium chloride flakes must dissolve in the water before adding the solution to a tire. Always stir the solution until all the calcium chloride dissolves.

⚠ CAUTION ⚠

Never add water to calcium chloride — mixing these two compounds this way can be dangerous. If the flakes get in your eyes, flush your eyes with clean, cold water for at least five minutes. Consult a doctor as soon as possible.

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