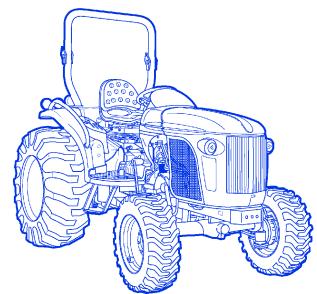


Product: New Holland Boomer 8N Tractor Service Repair Manual  
Full Download: <https://www.arepairmanual.com/downloads/new-holland-boomer-8n-tractor-service-repair-manual/>

# NEW HOLLAND Boomer 8N



# SERVICE MANUAL

 NEW HOLLAND

AGRICULTURE

SERVICE

**SECTION 00 - GENERAL INFORMATION****Chapter 1 - General Information****CONTENTS**

<b>Section</b>	<b>Description</b>	<b>Page</b>
Introduction	.....	3
Precautionary Statements	.....	4
Personal Safety	.....	4
Machine Safety and Information	.....	4
Technical Information	.....	5
Hardware	.....	5
General	.....	5
Plating	.....	5
Nut Tightening	.....	5
Locknuts	.....	5
Jam Nuts	.....	5
Thread Lubrication	.....	5
Working Safety	.....	6
Starting the Tractor	.....	7
Using the Tractor	.....	8
Towing and Transport	.....	9
Using Implements and Agricultural Machinery	.....	10
Stopping the Tractor	.....	10
Servicing the Tractor	.....	11
Diesel Fuel	.....	13
Safety Decals	.....	14
Instruction Decals	.....	16
General Information	.....	20
Universal Symbols	.....	21
Specifications	.....	22
Engine	.....	22
Capacities	.....	22
Cooling System	.....	23
Electrical System	.....	23
Fuel System	.....	23

Sample of manual. Download All 947 pages at:

<https://www.arepairmanual.com/downloads/new-holland-boomer-8n-tractor-service-repair-manual/>

<b>Section</b>	<b>Description</b>	<b>Page</b>
	Brakes .....	24
	Steering .....	24
	Power Take-off .....	24
	Hydraulic Lift System .....	24
	Transmission .....	25
	Transmission Speeds - km/h (mph) .....	25
	Cast Iron Weights .....	26
	Drawbars .....	26
	3 Point Hitch .....	26
	Tires .....	27
	Wheel Bolt Torques .....	27
	General Dimensions .....	28
	Minimum Hardware Tightening Torques .....	32
	Special Tools .....	34
	Tire Ballast and Pressures .....	36
	Liquid Ballast (Optional) .....	36
	Tire Pressure .....	36
	Rear Tire Liquid .....	36

## **INTRODUCTION**

This service manual provides the technical information needed to properly service the New Holland Boomer 8N CVT transmission. Use this manual in conjunction with the operator's manual for complete operation, adjustment, and maintenance information.

On New Holland equipment, left and right are determined by standing behind the unit, looking in the direction of travel.

# PRECAUTIONARY STATEMENTS

## PERSONAL SAFETY



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Throughout this manual and on machine decals, you will find signal words **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**

---

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury. The color associated with Danger is **RED**.

M1169A

---

---

### **WARNING**

---

**WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury. The color associated with Warning is **ORANGE**.

M1170A

---

---

### **CAUTION**

---

**CAUTION**, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. The color associated with Caution is **YELLOW**.

M1171A

---

**FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION INSTRUCTIONS COULD RESULT IN DEATH OR SERIOUS INJURY.**

## MACHINE SAFETY AND INFORMATION

**NOTICE** is used to address practices not related to personal injury.

**NOTICE:** The signal word **NOTICE** is used throughout this manual followed by specific instructions. These messages are intended for machine safety, or to identify and present supplementary information.

## TECHNICAL INFORMATION

### HARDWARE

#### GENERAL

The Boomer 8N tractor has been built using metric hardware.

**NOTICE:** *Be sure to use the hardware specified when using tapped holes, as trying to install a metric bolt in an inch thread, or an inch bolt in a metric thread, will damage the thread.*

Certain hardware must be tightened to specific torque specifications. If specific torque specifications are not noted, tighten the hardware to the standard torque chart specification listed in this manual.

#### PLATING

Hardware used on New Holland tractors is plated with zinc chromate (gold color). Gold colored hardware has different torquing requirements from unplated or zinc plated (silver color) hardware because of the difference in the coefficient of friction of the plating material. The torque charts in this manual list the correct specifications for gold, silver, and unplated bolts.

#### NUT TIGHTENING

Whenever possible, the nut should be tightened, not the head of the bolt. When tightening using the bolt head, the clamp load can be lost because some of the torque applied twists the bolt instead of tensioning (stretching) it. The tension on the bolt is what holds the joint together.

Approximately 90% of the torque applied during assembly goes to overcoming friction between the parts. The other 10% is used to tension (stretch) the bolt. After assembly, the frictional forces disappear, which is the basis for the saying "If it does not fail during assembly, it will not fail in service." The bolt may later fail due to other factors, but not from being over tightened.

### LOCKNUTS

Most locknuts are coated with a special lubricant that is dry to the touch. Anytime a locknut is used, a lower than normal torque is required. Refer to the torque charts in this manual for specific values.

### JAM NUTS

When using a jam nut to lock a regular nut, the jam nut should be installed first and tightened to one half the recommended torque, then held in place while installing a regular nut to the recommended torque.

### THREAD LUBRICATION

The addition of anti-seize compound, Molykote, oil, graphite, or any other lubricant to a bolt decreases the friction between it and a nut. This makes it necessary to reduce the recommended torque to prevent over tensioning of the bolt. When using the torque charts in this manual, decrease the value by 20% whenever a lubricant is used.

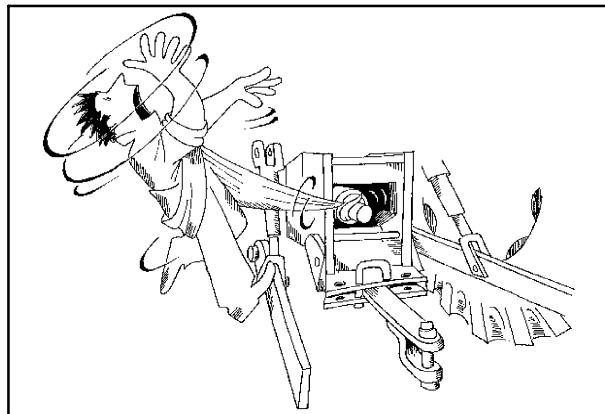
## WORKING SAFELY

1. During the manufacturing of this tractor, every step has been taken to ensure safe operation. However, the best way to avoid accidents is to exercise caution at all times. Once the accident has already happened it is too late to remember what steps should have been taken.
2. Read this manual carefully before starting, using, carrying out maintenance, refueling or performing any other type of operation on the tractor.
3. The time spent reading this manual will allow you to get to know your tractor, thereby saving time and effort. This will also help prevent accidents from taking place.
4. Read all the safety decals on the machine and follow the instructions thereon before starting, operating, refueling or carrying out maintenance on the machine. Promptly replace any decals that are damaged, lost or illegible.

Clean the decals if they are covered by mud or debris.

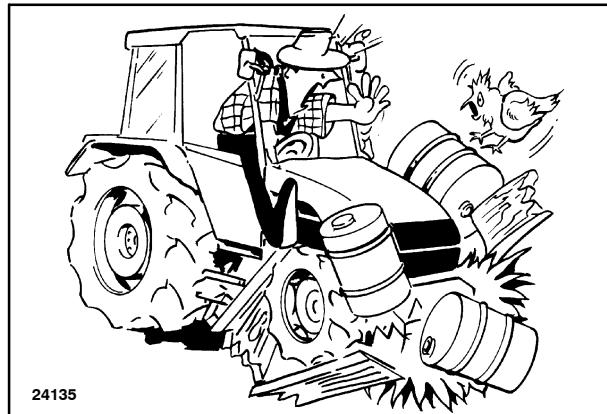
5. Remember that the tractor is exclusively designed for agricultural use. Any other use will require prior authorization from CNH America LLC.
6. It is advisable to keep a first aid kit on hand.
7. The tractor must only be used by responsible personnel, trained in tractor use and authorized to operate the machine.
8. Do not alter the injection system calibration in an attempt to increase maximum engine speed.
9. Do not wear loose clothing that may be trapped in moving parts.

Check that all rotating parts connected to the power take-off are correctly protected.



1

10. Do not alter the calibration of the pressure relief valves in the various hydraulic circuits (steering, hydraulic lift, auxiliary distributors, etc.).
11. Avoid using the tractor in unsuitable physical conditions, stop work instead.
12. Enter and leave the tractor using the steps and handles provided. Keep these fittings free of mud and debris.



2

## STARTING THE TRACTOR

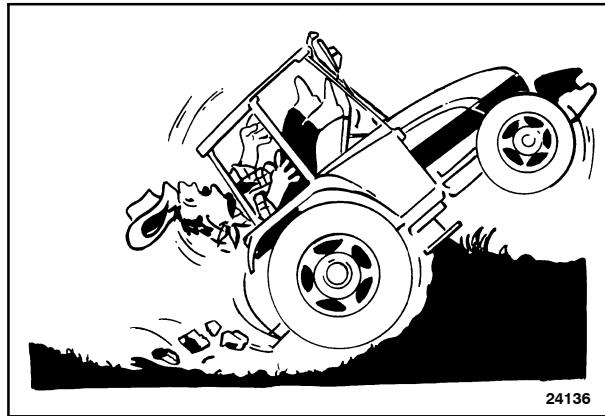
1. Before starting the engine, check that the hand brake is on and that the transmission shuttle shift lever and power take-off are disengaged, even if the tractor is fitted with a start-up safety device. Never disconnect the start-up safety switch. If the switch does not work correctly, contact your local dealer for eventual repair operations.
2. Before starting the engine, make sure that all attached implements are lowered to the ground.
3. Before starting the engine, check that all covers and guards are correctly in position (hood side panels, power take-off guard, front axle transmission shaft cover, etc.).
4. Never start or maneuver the tractor unless seated in the driving position.
5. Before moving the tractor, always check that the area is free of persons or obstacles.
6. Never run the engine in a closed space without ensuring adequate ventilation. Exhaust fumes are damaging to the health and can be lethal.



3

## USING THE TRACTOR

1. Select the most suitable wheel setting for the work in hand, i.e.: the setting that provides the best stability.

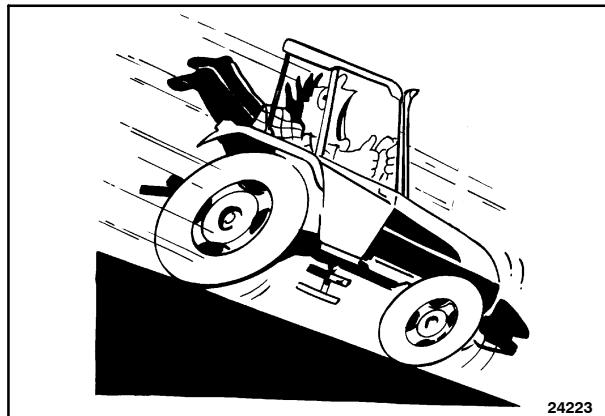


4

2. Depress the speed control pedal slowly: if engaged too quickly, especially when the tractor is getting out of a hole, ditch or operating on muddy ground or steep slopes, the tractor may overturn.

Release the speed control pedal immediately if front wheels begin to lift.

3. When traveling downhill, keep the tractor in gear. Never place shuttle shift lever in the neutral position.
4. When the tractor is moving, the operator must remain correctly seated in the driving position.
5. Never get on or off the tractor while in movement.
6. When using the brakes, press the pedal down slowly.
7. Avoid taking turns at high speeds.
8. Always use the tractor at a speed that will guarantee safe operation on the type of land being worked. When working on uneven ground, use maximum care to ensure proper stability.
9. If you have to work with the tractor on a gradient, for example on hillsides, drive at moderate speed especially when taking turns.



5

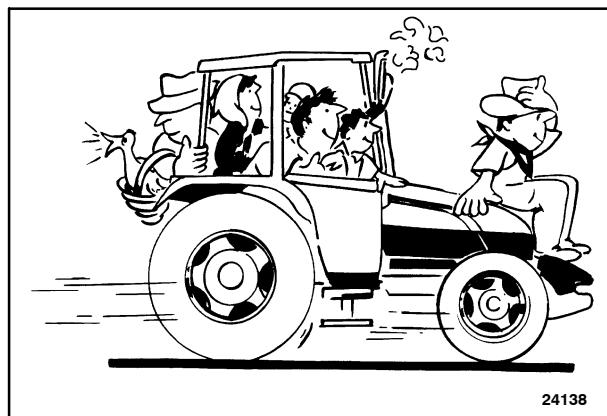
10. Proceed with maximum caution when working with the wheels near the edge of ditches or slopes.
11. When driving on public highways, observe the Highway Code.



6

12. When driving, do not rest your feet on the brake pedals.
13. Never haul passengers on tractor.

When driving on roads, connect the brake pedals using the plate provided. Braking when the pedals are not connected could cause the tractor to skid. Avoid excessive wear on the brakes by using engine braking.



7

## TOWING AND TRANSPORT

1. To guarantee tractor stability when moving, adjust the hitching device according to the trailer or implement to be used.
2. Drive slowly when towing extremely heavy loads.
3. For your own safety, do not tow trailers that are not fitted with an independent braking system.
4. If the tractor is used to tow heavy loads, always use the hitching device and never hitch loads onto the lower arms or the top link of the three-point linkage. This may result in tipping or overturning.
5. When towing, do not negotiate turns with the differential lock engaged as this may prevent you from steering the tractor.



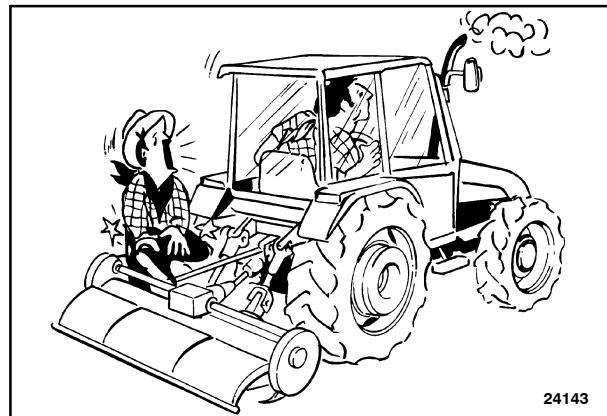
8

## USING IMPLEMENTS AND AGRICULTURAL MACHINERY

1. Do not connect implements or machinery that require more power than can be generated by your tractor model.
2. Never negotiate sharp turns with the power take-off under a heavy load; this may damage the universal joints on the transmission shaft connected to the power take-off.
3. Never stand between the reversing tractor and the implement when hitching.
4. When using implements that require the tractor to be stationary with the engine running, keep the shuttle lever in the neutral position, apply the hand brake and use suitable wheel chocks.
5. Do not operate machines connected to the power take-off without first ensuring that the operating range of the machine is free of bystanders.

Also check that all rotating parts connected to the power take-off shaft are correctly protected.

6. Add some type of rear ballast when using lifting equipment fitted to the front of the tractor. Rear ballast, such as, rear wheel weights, fluid in rear tires or 3pt weight box.



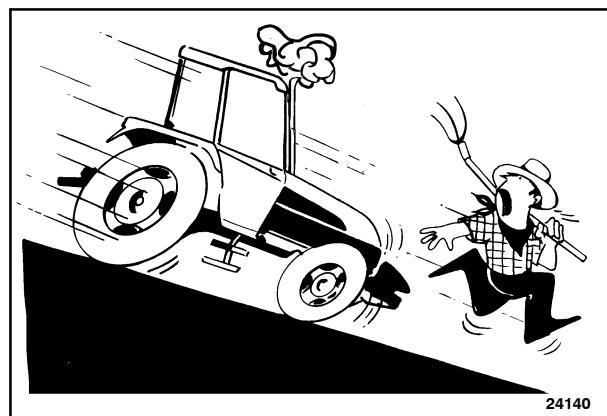
9

## STOPPING THE TRACTOR

1. When the tractor is stationary, never leave connected implements in the raised position. All implements must be lowered before stopping the engine.
2. Before leaving the driving position, move the transmission shuttle shift lever to the neutral position, disengage the power take-off, apply the hand brake and stop the engine.

Always remove the ignition key from the dashboard when leaving the tractor unattended.

3. Park on flat surfaces, where possible, put the tractor into gear and apply the hand brake. As an additional safety measure, use wheel chocks (available as an optional); this procedure is compulsory when parking with a trailer hitched.



10

## SERVICING THE TRACTOR

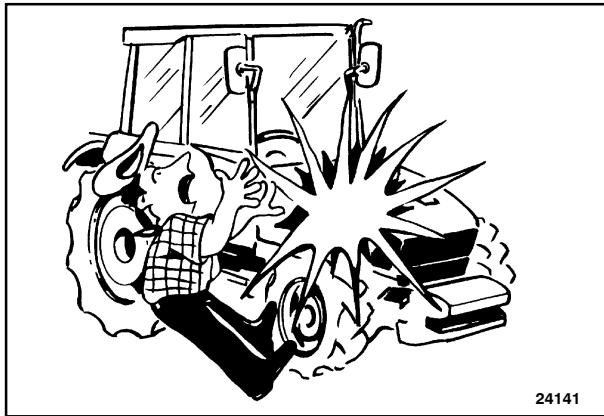
### ▲ CAUTION ▲

Some photographs in this manual may show shields or cover panels removed for purposes of clarity.

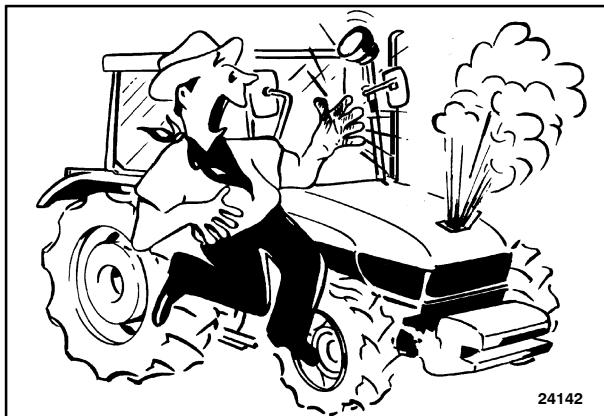
**NEVER OPERATE** unit without all shields and cover panels in place.

M202B

1. Do not work on the tires with unsuitable equipment or without the necessary experience. Incorrect tire fitting may put safety at risk. If in doubt, contact skilled personnel.
2. When changing or storing tires, make sure they are stacked correctly and cannot roll or topple over causing personal injury.
3. Before removing any hydraulic tubing, check that the system is not pressurized.
4. Leaks of pressurized oil can cause serious injuries. When looking for leaks use the appropriate safety equipment: screens, safety glasses and gloves.
5. Before touching any electrical components, disconnect the ground lead from the battery.
6. Only remove the radiator cap after the engine has been allowed to cool. With the engine switched off, use a cloth to slowly unscrew the cap and release the pressure before completely removing the cap.

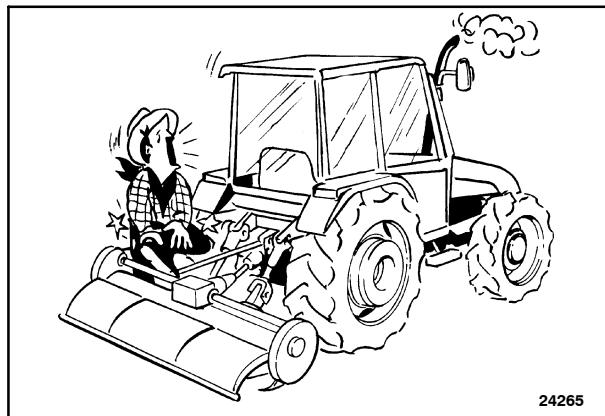


11



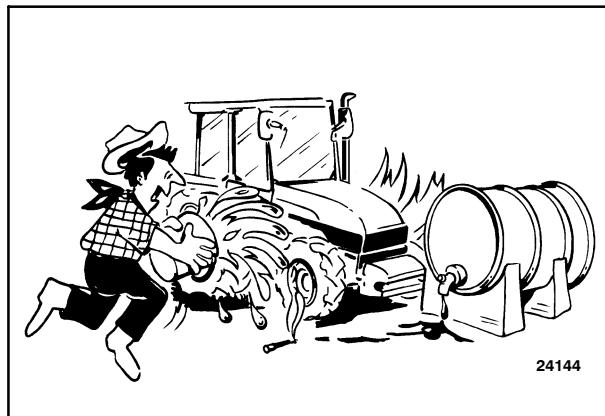
12

7. Before inspecting, cleaning or carrying out maintenance on the tractor (or any implement connected to the tractor), always ensure that the engine is switched off, the transmission shuttle shift lever in neutral, the brakes are on, the power take-off is disengaged and that all moving parts are stationary.



13

8. Always keep a fire extinguisher at hand.



14

**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. Low sulfur diesel fuel required.



**WHEN YOU SEE THIS SYMBOL**

**IT MEANS:**

**ATTENTION!**

**BECOME ALERT!**

**YOUR SAFETY IS INVOLVED!**

## SAFETY DECALS

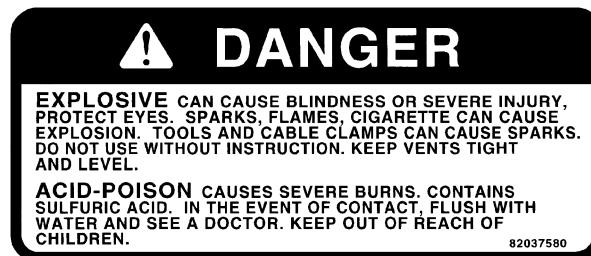
The following safety decals have been placed on your machine in the areas indicated. They are intended for your personal safety and for those working with you. Please take this manual and walk around your machine to note the content and location of these warning signs. Review these warning signs



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

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.



**DANGER:** Battery Safety  
**PART NO:** 82037580  
**LOCATION:** In Front of Battery



**WARNING:** Rotating Fan and Belts  
**PART NO:** 86532907  
**LOCATION:** Both sides of Radiator Shroud



**WARNING:** Before Starting and Operating

**PART NO:** 86401125 B

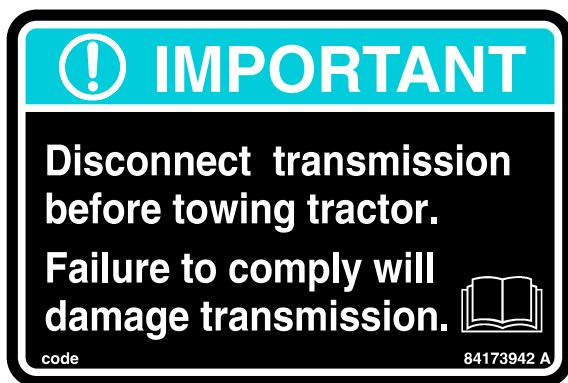
**LOCATION:** Left Side Pod



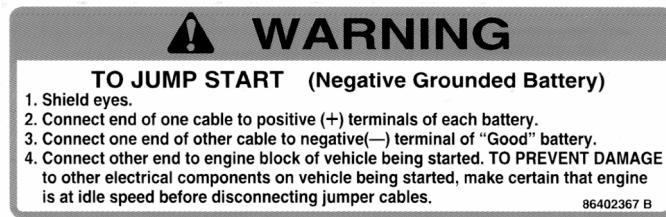
**DANGER:** ROPS  
**PART NO:** 86543805\_D  
**LOCATION:** Top Under Side of ROPS



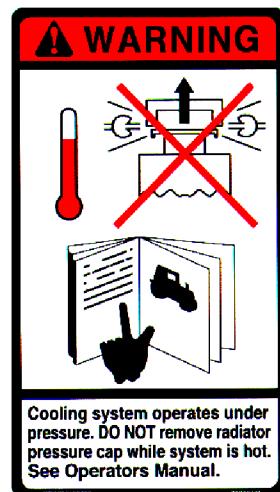
WARNING: Tractor Dismounting  
PART NO: 84222486  
LOCATION: Top Left Dash



IMPORTANT: Disconnect Transmission  
PART NO: 84173942  
LOCATION: Top Left Dash



WARNING: To Jump Start  
PART NO: 86402367  
LOCATION: In front of battery



WARNING: Cooling System Under Pressure  
PART NO: 82029421  
LOCATION: Air Filter Intake Tube



DANGER: Start Engine Only From Operator's Seat  
PART NO: 82985062  
LOCATION: On Top of Starter



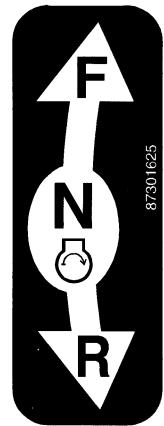
WARNING: Operate Controls only from Tractor seat  
PART NO: 87300025  
LOCATION: PTO Shield

## INSTRUCTION DECALS

PTO Engagement  
PART NO: 84143212  
LOCATION: Left-Hand  
POD near Floor  
(With Mid PTO Only)



Position Control  
Lever  
PART NO: 86567896  
LOCATION:  
Right-Hand POD Top



Forward-Reverse Shuttle  
PART NO: 87301625  
LOCATION: Top Left of Dash

Operating Remote  
Control  
Valve-Single  
Spool (Optional)  
PART NO: 86567895  
LOCATION:  
Right-Hand POD Top



Differential Lock  
PART NO: 86532901  
LOCATION: Above  
Pedal Left Side of  
Operator's Platform



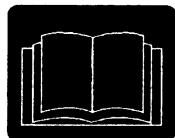
Starter Switch  
PART NO: 87656846  
LOCATION: Starter  
Switch, Right Side of  
Instrument Panel



Flow Control Valve  
PART NO: 86400295  
LOCATION: Top of Flow  
Control Knob



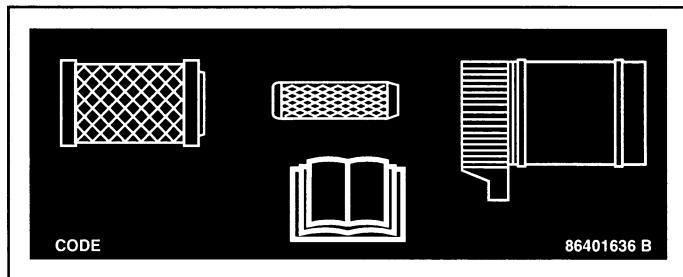
Engine Oil  
PART NO: 86532916  
LOCATION: Engine Oil  
Filler Cap



Hyd. Manifold Operation  
(See Operator's Manual)  
PART NO: 86532914  
LOCATION: Right Side  
Frame Rail Underneath  
Operator's Platform

Lubrication and  
Maintenance Intervals  
PART NO: 84181050  
LOCATION: Inside of Hood

LUBRICATION AND MAINTENANCE ITEM	CHECK	CLEAN	LUBE	CHANGE	ADJUST	SERVICE INTERVAL	
Radiator Coolant Engine Oil Level Air Cleaner	• • •					Every 10 Hours or Daily	
Transmission Oil Level Front Diff Oil Level Front Axle Oil Level Tires Clutch Pedal Battery Lubrication Fittings 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 Super Steer Gearbox	• • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • •		Every 50 Hours
Fuel Filter Air Cleaner		• •				Every 100 Hours	
Engine Oil Engine Oil Filter Fan Belt Brakes	•			• • •		Every 200 Hours	
Fuel Filter Front Axle Oil Front Diff Oil Hydraulic Filters Transmission Oil				• • • •		Every 300 Hours	
Fuel Injectors Valve Clearance Front Wheel Bearings G-Rotor Inner Filter Super Steer Gearbox	• •		• •	• • •	• • •	Every 600 Hours	
Radiator Coolant Air Cleaner Element			• •	•		Seasonal	
<b>Refer to your Operator's Manual for additional information.</b>							



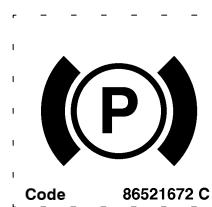
Air Cleaner Maintenance  
PART NO: 86401636  
LOCATION: Air Cleaner Canister



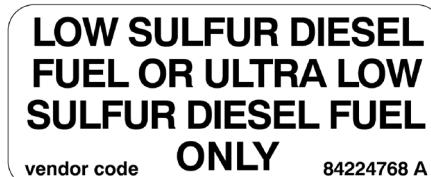
Red Reflective Tape  
PART NO: 86547781  
LOCATION: Back Rear Fender  
(Both Sides)



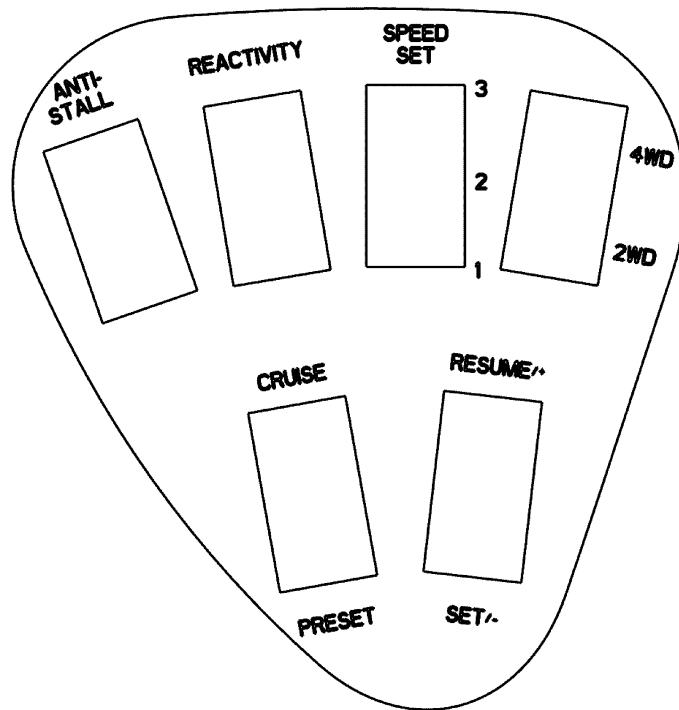
Throttle  
PART NO: 81863547  
LOCATION: Top Right Dash



Parking Brake  
PART NO: 86521672  
LOCATION: Right side of operator's platform



Low Sulfur Fuel  
PART NO: 84224768  
LOCATION: Left Rear Post of ROPS, near fuel tank



Transmission Controls Decal  
PART NO: 84153067  
LOCATION: Top of Left-Hand Pod



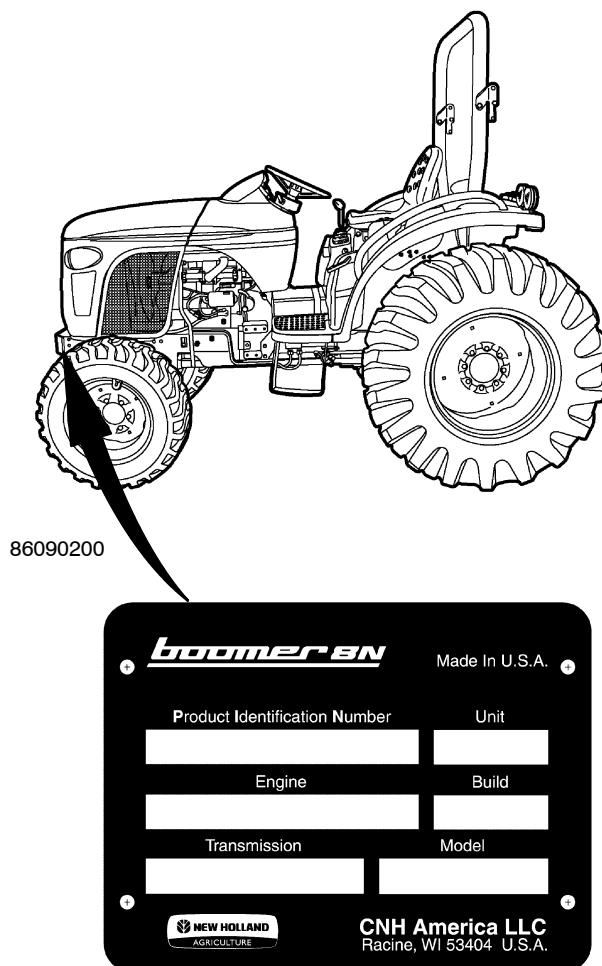
Boomer 8N Emblem  
PART NO: 84174524  
LOCATION: Both Sides of the Hood

# GENERAL INFORMATION

## PLEASE READ CAREFULLY:

For a complete list of the pre-delivery service checks performed by your dealer, refer to the DELIVERY REPORT checklist found at the back of this manual. Keep one copy as your record of the service performed. The other copy should be removed from the manual and kept by your dealer. MAKE SURE THAT BOTH COPIES ARE COMPLETED AND THAT YOU AND THE DEALER SIGN BOTH COPIES.

A PRODUCT IDENTIFICATION PLATE is located on the left-hand side of the front frame.

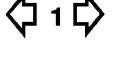
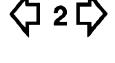


All data given in this book is subject to production variations. Dimensions and weights are approximate only, and the illustrations do not necessarily depict

tractors in standard condition. For exact information about any particular tractor, please consult your New Holland dealer.

## UNIVERSAL SYMBOLS

As a guide to the operation of your tractor, various universal symbols have been utilized on the instruments, controls, switches, and fuse box. The symbols are shown below with an indication of their meaning.

	Thermostat starting aid		Radio		P.T.O.		Position Control
	Alternator charge		Keep alive memory		Transmission in neutral		Draft Control
	Fuel level		Turn signals		Creeper gears		Accessory socket
	Automatic Fuel shut-off		Turn signals -one trailer		Slow or low setting		Implement socket
	Engine speed (rev/min x 100)		Turn signals -two trailers		Fast or high setting		%age slip
	Hours recorded		Front wind-screen wash/wipe		Ground speed		Hitch raise (rear)
	Engine oil pressure		Rear wind-screen wash/wipe		Differential lock		Hitch lower (rear)
	Engine coolant temperature		Heater temperature control		Rear axle oil temperature		Hitch height limit (rear)
	Coolant level		Heater fan		Transmission oil pressure		Hitch disabled
	Tractor lights		Air conditioner		FWD engaged		Hydraulic and transmission filters
	Headlamp main beam		Parking brake		FWD disengaged		Remote valve extend
	Headlamp dipped beam		Brake fluid level		Warning!		Remote valve retract
	Work lamps		Trailer brake		Hazard warning lights		Remote valve float
	Stop lamps		Roof beacon		Variable control		Malfunction! See Operator's Manual
	Horn		Warning! Corrosive substance		Pressurized! Open carefully		Malfunction! (alternative symbol) See Operator's Manual

## SPECIFICATIONS

### Boomer 8N

#### ENGINE

Type/Model .....	Diesel/N844L
Engine Gross Horsepower .....	33.6 kW (45)
Cylinders .....	4
Bore .....	84 mm (3.31 in)
Stroke .....	100 mm (3.94 in)
Displacement .....	2.2 L (135.2 cu in)
Compression Ratio .....	22.5:1
Firing Order .....	1-3-4-2
Low Idle Speed .....	1050 rpm
Maximum Speed:	
High Idle .....	3050 rpm
Rated .....	2800 rpm

#### CAPACITIES

Fuel Tank .....	49.2 L/ 13 US gal
Cooling System .....	9.0 L/ 9.6 US qt
Engine Crankcase:	
With Filter .....	6.0 L/ 6.3 US qt
Rear Axle & Transmission (Includes Hydraulics) .....	35.2 L/ 9.3 US gal
Front Axle Differential/ Final Reduction Gear Case .....	5.3 L/ 5.6 US qt

**Boomer 8N**

**COOLING SYSTEM**

Type .....	Pressurized Liquid with Recirculating Bypass
Water Pump:	
Type .....	Centrifugal
Drive .....	V-Belt
Belt .....	10 - 15 mm (7/16 - 9/16 in) when 9 - 11 kg (20 - 25 lb) pressure is applied midway between belt pulleys
Deflection .....	410 mm (16.1 in)
Fan Diameter .....	6
Number of Fan Blades .....	
Thermostat:	
Start to Open .....	80°C (176°F)
Fully Open .....	95°C (203°F)
Radiator Cap .....	90 kPa (13 psi)
Antifreeze .....	Ethylene Glycol

**ELECTRICAL SYSTEM**

Main System Protection .....	60 amp Maxifuse
Number Fuses for Circuit Protection .....	17
Alternator .....	12-volt, Heavy Duty, 55 amps
Battery Type .....	12-volt, w/ negative ground, 600 cca, BCI Group 47
Starter HP (KW) Rating .....	2.7 (2.0)
Battery Rating Amp Hrs .....	64 - 69
Starting Motor .....	Solenoid Pre-Engaged Reduction

**FUEL SYSTEM**

Fuel Type .....	Diesel
Type of Fuel to Use if Above 40°F .....	No. 2-Diesel, Cetane Rating: Minimum 40
Type of Fuel to Use if Below 40°F .....	No. 1-Diesel, Cetane Rating: Minimum 40
Injection Pump:	
Type .....	In-Line
Timing .....	19.5° BTDC

**Boomer 8N**

**BRAKES**

Type .....	Wet Disc
3 Disc Diameter .....	175 mm x 143 mm (6.9 in x 5.6 in)

**STEERING**

Type .....	Power
Pump Flow @ Rated rpm .....	21.0 L/min (5.54 US gal/min)
Turns Lock-to-Lock: FWD .....	4.3 R to L and 3 L to R
Front Wheel Toe-In .....	0 - 5 mm (0 - 13/64 in)
Turning Radius w/o Brakes: FWD .....	3238.5 mm (127.5 in)
Max. Turn Angle: 4WD .....	54°
Front to rear axle ratio .....	1.67 to 1

**POWER TAKE-OFF**

Type .....	Independent
Shaft:	
Rear PTO .....	35 mm (1-3/8 in)
Mid PTO .....	25.4 mm (1 in)
Engine Speed for 540 rpm Rear PTO Operation .....	2409 rpm
Horsepower Rear PTO Observed .....	29.8 kW (40 Hp)
Horsepower Mid PTO Observed .....	24.6 kW (36 Hp)
Engine Speed for 2000 rpm Mid PTO Operation .....	2407 rpm
Direction of Rotation (As viewed from rear of tractor)	
Rear PTO .....	Clockwise
Mid PTO .....	Counter-clockwise

**HYDRAULIC LIFT SYSTEM**

Type .....	Open Center
Pump Type .....	Gear
Pump Capacity .....	39.8 L/min (10.5 US gal/min)
System Relief Valve Setting .....	17161 kPa (2489 psi)
Number of Rear Remotes Available .....	3 (optional)
Number of Mid Remotes Available .....	2 (optional)

**TRANSMISSION**

Transmission Type ..... CVT

**TRANSMISSION SPEEDS - km/h (mph)**

Forward Min @ rated speed (AG) .....	0.46 (0.28)
Forward Max @ rated speed (AG) .....	32.48 (20.18)
Reverse Min @ rated speed (AG) .....	0.45 (0.27)
Reverse Max @ rated speed (AG) .....	32.24 (20.03)
Forward Min @ rated speed (R4) .....	0.46 (0.28)
Forward Max @ rated speed (R4) .....	32.15 (19.98)
Reverse Min @ rated speed (R4) .....	0.45 (0.27)
Reverse Max @ rated speed (R4) .....	31.91 (19.83)
Forward Min @ rated speed (Turf) .....	0.42 (0.26)
Forward Max @ rated speed (Turf) .....	29.95 (18.61)
Reverse Min @ rated speed (Turf) .....	0.42 (0.26)
Reverse Max @ rated speed (Turf) .....	29.72 (18.47)
Forward Min @ rated speed (Galaxy Turf Special) .....	0.41 (0.25)
Forward Max @ rated speed (Galaxy Turf Special) .....	29.12 (18.09)
Reverse Min @ rated speed (Galaxy Turf Special) .....	0.41 (0.25)
Reverse Max @ rated speed (Galaxy Turf Special) .....	28.9 (17.96)

**Boomer 8N**

**CAST IRON WEIGHTS**

Front End:

Ag, R-4 & Turf Tires with FWD ..... (2) weights @ 29.7 kg  
(66 lb) each

Optional (2) weights @  
45 kg (100 lb) each

Standard FWD Axle: (with extension bracket) ..... (5) weights @ 26 kg  
(60 lb) each  
Total 26 kg (300 lb)

Or

(5) weights @ 45 kg  
(100 lbs.) each  
Total 225 kg (500 lb)

Rear Wheel:

R-4 Tires ..... (4) weights (2) per wheel  
@ 34 kg  
(75 lb) each

Turf Tires ..... ---

Ag. Tires ..... (4) weights (2) per  
wheel @ 48 kg  
(105 lb) each

**DRAWBARS**

Swinging/Extendible ..... Standard

**3 POINT HITCH**

Category Type	I
Position Control Type	Hydraulic
Drop Rate Control	Standard
Maximum Lift Capacity @ ball ends	1606 kg (3541 lb)
Lift Capacity @ 24 in behind	1059 kg (2330 lb)

**Boomer 8N**

**TIRES**

**FRONT:**

Agricultural:	
FWD	..... 8x16, 6PR, R11
Turf:	
FWD	..... 27x10.50-15, 4PR, R3 27/12LL x 15
Industrial:	
FWD	..... 10x16.5, 6PR, R4

**REAR:**

Agricultural	..... 14.9x24, 4PR, R1
Turf	..... 44x18-20, 4 PR, R3
Industrial	..... 17.5x24, 8PR, R4
Galaxy Turf Special	..... 22.5 LL x 16

**WHEEL BOLT TORQUES**

Front Wheel—

Disc-to-Hub:	
FWD	..... 129 N·m (95 lb ft)

Rear Wheel—

Rear Wheel & Disc-to Axle	..... 129 N·m (95 lb ft)
---------------------------	--------------------------

Disc-to Rim	..... 244 N·m (180 lb ft)
-------------	---------------------------

## GENERAL DIMENSIONS

		Boomer 8N
<b>(1)—LENGTH Overall (w/Vertical 3 pt. Hitch) - mm (in)</b>		
STD FWD		
AG Tires	.....	3098 (122)
R4 Tires	.....	3098 (122)
Turf Tires	.....	3098 (122)
Galaxy Turf Special	.....	3098 (122)
<b>(2) - WHEEL BASE - mm (in)</b>		
FWD	.....	1867 (73.5)
<b>(3) - WIDTH - mm (in)</b>		
<b>Rear Axle—Outside</b>		
AG Tires - 14.9 x 24		
Dished In	.....	1687 (66.4)
Dished Out	.....	2090 (82.3)
R4 Tires - 17.5 x 24		
Dished In	.....	1876 (73.9)
Dished Out	.....	2184 (86.0)
Turf Tires - 44-18 x 20		
Dished In	.....	1819 (71.6)
Dished Out	.....	1841 (72.5)
Galaxy Turf Special - 22.5LL x 16		
Dished In	.....	NA
Dished Out	.....	2131 (83.9)
<b>(4)—GROUND CLEARANCE - mm (in) (at * CL)</b>		
<b>AG TIRES</b>		
Std. FWD Minimum	.....	318 (12.5)
Front Axle Crop Clearance	.....	403 (15.9)
Rear Axle Crop Clearance	.....	433 (17.0)
<b>R4 TIRES</b>		
Std. FWD Minimum	.....	302 (11.9)
Front Axle Crop Clearance	.....	395 (15.6)
Rear Axle Crop Clearance	.....	417 (16.4)
<b>TURF TIRES</b>		
Std. FWD Minimum	.....	280 (11.0)
Front Axle Crop Clearance	.....	352 (13.9)
Rear Axle Crop Clearance	.....	395 (15.6)
<b>GALAXY TURF SPECIAL</b>		
Std. FWD Minimum	.....	262 (10.3)
Front Axle Crop Clearance	.....	357 (14.1)
Rear Axle Crop Clearance	.....	377 (14.8)

\* CL - Center Line of Tractor

**HEIGHTS - mm (in):****(5) -****ROPS Height - FOLDING**

sm AG Tires - UP .....	2413 (95.0)
sm AG Tires - DOWN .....	1969 (77.5)
lg AG Tires - UP .....	2426 (95.5)
lg AG Tires - DOWN .....	1981 (78.0)
R4 Tires - UP .....	2426 (95.5)
R4 Tires - DOWN .....	1981 (78.0)
TURF Tires - UP .....	2350 (92.5)
TURF Tires - DOWN .....	1905 (75.0)

**(6) -****Hood Height (top inst. cluster) - mm (in)**

sm AG Tires .....	1594 (62.75)
lg AG Tires .....	1606 (63.23)
R4 Tires .....	1619 (63.75)
TURF Tires .....	1568 (61.73)

**(7) -****Steering Wheel Height - mm (in)**

sm AG Tires - UP .....	1651 (65.0)
sm AG Tires - DOWN .....	1600 (63.0)
lg AG Tires - UP .....	1664 (65.5)
lg AG Tires - DOWN .....	1613 (63.5)
R4 Tires - UP .....	1676 (66.0)
R4 Tires - DOWN .....	1626 (64.0)
TURF Tires - UP .....	1626 (64.0)
TURF Tires - DOWN .....	1575 (62.0)

**(8) - Width - Standard Fenders - mm (in)**

1486 (58.5)

**(9) -****Step Height - mm (in)**

Number of Steps (per tractor) .....	2
AG Tires FWD .....	490 (19.3)
R4 Tires FWD .....	480 (18.9)
Turf Tires FWD .....	414 (16.3)
Galaxy Tires FWD .....	429 (16.9)