

**NEW HOLLAND**

**T8010**

**T8020**

**T8030**

**T8040**

**T8050**

After S/N Z9RW06000

84244947 August 2009  
First Printing



# OPERATOR'S MANUAL





## OPERATOR'S MANUAL



**T8010**  
**T8020**  
**T8030**  
**T8040**  
**T8050**

# Contents

---

<b>1 GENERAL INFORMATION</b>	
Safety rules .....	1-1
Read the Operators Manual .....	1-2
CNH America LLC technical manuals .....	1-2
Proposition 65 .....	1-2
Product identification .....	1-3
Note to the Owner .....	1-4
Tractor intended use .....	1-5
Manual storage .....	1-5
Product identification .....	1-7
Component location .....	1-9
<b>2 SAFETY INFORMATION</b>	
Safety rules .....	2-1
ROPS and CSF .....	2-8
Front-end loader .....	2-9
Hazardous substances .....	2-10
SAFETY DECALS .....	2-11
<b>3 CONTROLS/INSTRUMENTS</b>	
<b>ACCESS TO OPERATOR'S PLATFORM</b>	
Tractor access .....	3-1
<b>OPERATOR'S SEAT</b>	
Overview .....	3-2
Control identification .....	3-4
<b>INSTRUCTOR'S SEAT</b>	
Overview .....	3-7
<b>FORWARD CONTROLS</b>	
Steering column .....	3-8
Front console .....	3-10
Pedal controls .....	3-12
<b>RH SIDE CONTROLS</b>	
Armrest console .....	3-14
Armrest compartment .....	3-24
Adjusting the armrest console .....	3-27
<b>REARWARD CONTROLS</b>	
Fender console .....	3-28
Automatic temperature controls .....	3-33
Automatic temperature control system .....	3-36
Ventilation .....	3-37
<b>OVERHEAD CONTROLS</b>	
Lamp controls .....	3-39
<b>EXTERIOR CONTROLS</b>	
Rear fender controls .....	3-40
<b>INSTRUMENT CLUSTER</b>	
Overview .....	3-41

---

Gauges .....	3-42
Upper display .....	3-44
Keypad .....	3-46
Status and warning icons.....	3-48
Lower display .....	3-50
Display settings.....	3-70
Operator preferences.....	3-81
Icon legend .....	3-95

## 4 OPERATING INSTRUCTIONS

### COMMISSIONING THE UNIT

Before starting the engine .....	4-1
----------------------------------	-----

### STARTING THE UNIT

Normal engine starting .....	4-4
Cold temperature operation .....	4-7

### STOPPING THE UNIT

Stopping the engine .....	4-10
---------------------------	------

### MOVING THE UNIT

Powershift transmission .....	4-11
Transmission default gears.....	4-12
Setting default gears .....	4-15
Best practices for prolonged transmission life.....	4-18
Transmission disengages; neutral icon flashes .....	4-19
Constant ground speed (CGS) .....	4-20
Mechanical front drive (MFD).....	4-27
Differential lock system.....	4-31
Suspended axle .....	4-34
Ride control.....	4-42
Constant engine speed.....	4-45
Headland management system (HMS).....	4-47

## 5 TRANSPORT OPERATIONS

### ROAD TRANSPORT

Tractor warning lamps and SMV symbol .....	5-1
Wide transport marker light.....	5-2
Tractor warning lamps .....	5-4
Safe transport speed .....	5-5
Implement warning lamps and SMV symbol .....	5-6
Safety chain .....	5-7

### SHIPPING TRANSPORT

Securing the tractor for shipping .....	5-8
---	-----

### RECOVERY TRANSPORT

Safety rules.....	5-9
Towing the tractor.....	5-10

## 6 WORKING OPERATIONS

### GENERAL INFORMATION

Overview .....	6-1
<b>REAR PTO</b>	
Safety rules .....	6-2
Connecting the PTO .....	6-5
Interchangeable PTO shaft .....	6-6
Reversible PTO shaft .....	6-12
PTO operation .....	6-14
PTO fender switch operation .....	6-18
Auto PTO operation .....	6-19
<b>THREE POINT HITCH</b>	
Identification .....	6-23
Link adjustment .....	6-24
Hitch high clearance adjustment .....	6-28
Hydraulic links .....	6-31
Sway limiter adjustment .....	6-32
Lower link block adjustment .....	6-33
Mechanical float adjustment .....	6-34
Hitch quick coupler - Category III/IIIN .....	6-35
Hitch quick coupler - Category IVN .....	6-40
Hitch operation .....	6-44
Hitch remote switch operation .....	6-50
Position control operation .....	6-51
Load control operation .....	6-53
Slip control operation .....	6-55
Hitch set point .....	6-58
<b>FRONT HITCH</b>	
Overview .....	6-61
Hitch operation .....	6-63
<b>DRAWBARS AND TOWING ATTACHMENTS</b>	
Safety rules .....	6-66
Drawbar capacity/position .....	6-66
Adjusting the drawbar .....	6-71
<b>AUXILIARY POWER CONNECTIONS</b>	
Auxiliary power and lighting .....	6-73
Cab power connections .....	6-75
<b>HYDRAULIC REMOTE CONTROL VALVES</b>	
Valve couplers and connections .....	6-77
Motor return circuit .....	6-80
Power beyond circuit .....	6-81
Overview .....	6-83
Operating the controls .....	6-84
Changing the functional mode .....	6-87
Remote hydraulic auto mode .....	6-91
Auto depth control .....	6-94
<b>BALLASTING THE TRACTOR</b>	
Guidelines .....	6-97
Tire load and inflation charts .....	6-101

---

Weights, cast metal and liquid .....	6-109
Wheel slip and power hop performance .....	6-122

## MECHANICAL FRONT DRIVE (MFD) AXLES

Tire combinations and tread positions .....	6-125
Steering and oscillation stops .....	6-136
Steering and oscillation stops - SuperSteer axles .....	6-141

## REAR AXLE

Rear wheel installation .....	6-149
Rear wheel tread settings .....	6-152

# 7 MAINTENANCE

## GENERAL INFORMATION

Safety rules .....	7-1
Opening the hood .....	7-2
Battery access and service .....	7-5
Tire and rim service .....	7-6
Tractor jacking points .....	7-8
Capacities .....	7-10
Consumables .....	7-12
Electrical component location .....	7-16
Electrical system specification .....	7-20
Maintenance chart notes .....	7-21

## MAINTENANCE CHART

Maintenance Chart .....	7-21
-------------------------	------

### At warning message display

Air filter service icon/message .....	7-24
---------------------------------------	------

### First 10 to 50 hours

Differential and planetary oil .....	7-25
Wheel bolt torque .....	7-26
Weight bolt torque .....	7-27

### Every 10 hours or daily

Engine oil level .....	7-28
Transmission oil level .....	7-29
Engine coolant level .....	7-30
Engine auxiliary fuel filter .....	7-31
Air reservoir - Drain fluid .....	7-32
Rear hitch and front axle .....	7-33
Foam filter (reversible fan compressor) .....	7-34

### Every 50 hours

Engine primary fuel filter .....	7-35
Front axle linkage - Supersteer axle .....	7-36

### Every 100 hours

Zuidberg front hitch .....	7-37
----------------------------	------

### Every 300 hours

Battery water level (Note E) .....	7-38
------------------------------------	------

---

Engine air intake hoses.....	7-39
Engine coolant level - deaeration tank .....	7-40
Engine oil and filter .....	7-41
Wheel bolt torque.....	7-43
Weight bolt torque .....	7-44
Front axle (Note A) .....	7-45
Rear hitch (Note A) .....	7-54
Fuel tank.....	7-56
Differential and planetary oil level (Note B).....	7-57
Transmission oil pressure oil pressure .....	7-59
Reversible 1000 RPM PTO shaft (Note D).....	7-61
Cartridge filter (reversible fan compressor).....	7-62

### Every 600 hours

Engine coolant antifreeze protection .....	7-63
Engine coolant filter .....	7-64
Engine coolant hoses and clamps.....	7-65
Engine primary fuel filter.....	7-66
Changeable PTO internal splines .....	7-68

### Every 1200 hours or annually

Differential and planetary oil .....	7-69
Engine air filters .....	7-73
Engine air precleaner.....	7-77

### Every 1500 hours

Transmission oil .....	7-78
Transmission oil filter .....	7-80
Regulated transmission filter .....	7-81

### Every 2100 hours

Engine coolant.....	7-82
Fuel injector nozzles (Note C).....	7-85
Engine valve adjustment (Note C).....	7-85

### Every 3000 hours

Engine vibration damper (Note C).....	7-86
---------------------------------------	------

### As required

Vehicle fire prevention.....	7-87
Cab air filter.....	7-88
Engine primary air filter .....	7-91
Grille screen and radiator area .....	7-94
Fuel tank vent filter .....	7-96
Transmission clutch and accumulator .....	7-96
Tire pressure .....	7-96
Fan belt.....	7-97
Spark arresting muffler .....	7-98
Remote valve collection bottle.....	7-99
Engine auxiliary fuel filter.....	7-100
Cab fabric and carpet.....	7-102
Seat belt .....	7-103

---

<b>STORAGE</b>	
Tractor storage .....	7-104
Removal from storage .....	7-104
<b>ELECTRICAL SYSTEM</b>	
Radio or audio system.....	7-105
Battery removal and installation .....	7-106
Auxiliary battery connections .....	7-108
Head light - Replace.....	7-109
Grille work light .....	7-112
Fender tail light and warning light .....	7-114
Roof warning light .....	7-116
Roof work light.....	7-119
Belt line, roof or fender work light .....	7-122
High intensity work light .....	7-126
Wide transport marker light.....	7-128
Rotating beacon light .....	7-129
Interior light - Replace .....	7-130
<b>8 TROUBLESHOOTING</b>	
<b>ALARM(S)</b>	
Display warnings .....	8-1
<b>9 SPECIFICATIONS</b>	
ENGINE - General specification.....	9-1
POWER TRAIN - General specification .....	9-3
TRAVELLING - Speeds .....	9-6
Vehicle dimensions and shipping weight .....	9-15
Maximum operating weight.....	9-19
<b>10 ACCESSORIES</b>	
Front wheel fenders - Axle mounted fenders .....	10-1
Front wheel fenders - Dynamic fenders .....	10-5
Front wheel fenders - Fixed frame fenders .....	10-12
Farming system displays .....	10-21
Chemical tank mounting.....	10-24
Loader connection and operation .....	10-26
Trailer brake connections.....	10-27
General accessories.....	10-30
<b>11 FORMS AND DECLARATIONS</b>	
DELIVERY REPORT CUSTOMER COPY .....	11-3
DELIVERY REPORT DEALER COPY .....	11-5
FIRST SERVICE CUSTOMER COPY.....	11-7
FIRST SERVICE DEALER COPY.....	11-9

---



# 1 - GENERAL INFORMATION

## Safety rules

### 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 special instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.



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

M1170A



**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

**IMPORTANT:** *IMPORTANT* is used to address practices not related to personal safety.

The word IMPORTANT is intended for machine safety. It is used throughout this manual followed by specific instructions to prevent machine damage. Failure to follow IMPORTANT messages could result in machine damage.

#### INFORMATION

**NOTE:** *Instructions that clarify steps, procedures, or other information in this manual.*

## Read the Operators Manual



IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the manual(s) pertaining to the machine.
- Reads and understands ALL safety decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow CNH America LLC instructions on machine operation and maintenance.

## CNH America LLC technical manuals

Manuals are available from your dealer for the operation, service and repair of your machine. For prompt convenient service, contact your dealer for assistance in obtaining the manuals for your machine.

Your dealer can expedite your order for Operators Manuals, Parts Catalogs, Repair Manuals and maintenance records.

Always give the machine name, model and S.N. (serial number) of your machine so your dealer can provide the correct manuals for your machine.

The company is continually striving to improve its products and therefore reserves the right to make improvements and changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously.

All data given in this manual is subject to production variations.

**IMPORTANT:** *Operating and service messages displayed on the electronic operating panel may vary from what is shown in the Operators Manual. If this occurs, heed the latest instructions on the electronic operating panel.*

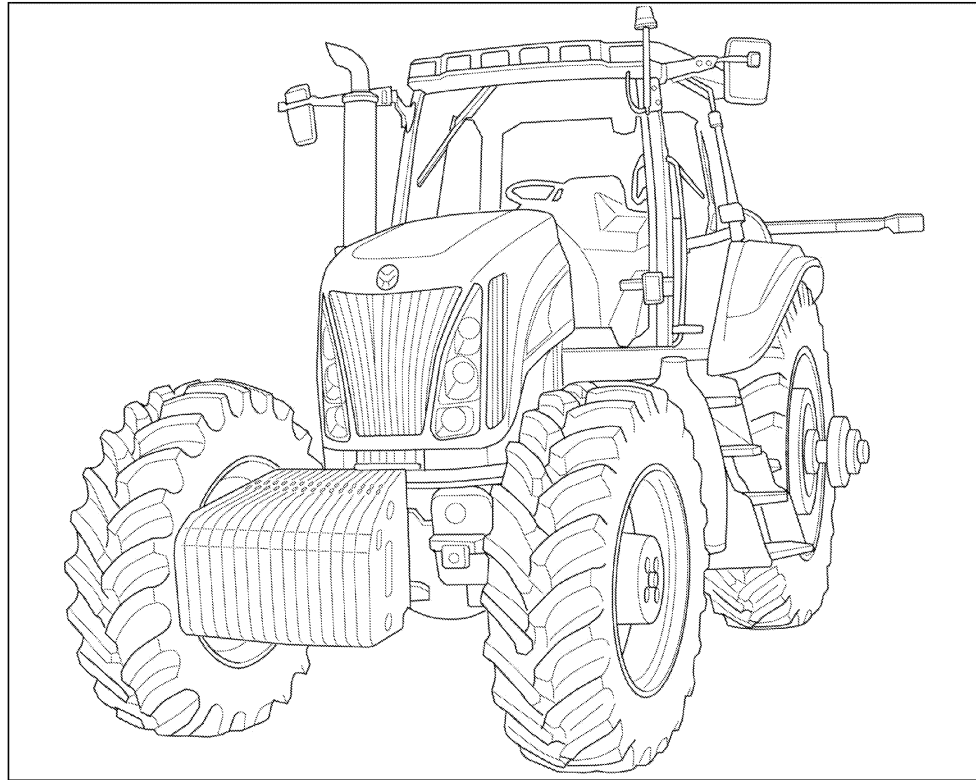
Dimensions and weights are approximate only and the illustrations do not necessarily show the machine in standard condition. For exact information about any particular machine, please consult your dealer.

## Proposition 65

<p style="text-align: center;"><b>CALIFORNIA</b></p> <p style="text-align: center;"><b>Proposition 65 Warning</b></p> <p><b>Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.</b></p> <p><b>Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.</b></p>
---

RCIL08CCH001EAA 1

Product identification



RCPH08CCH008FAB 1



RCPH08CCH014FAB 2

## Note to the Owner

This manual contains important information about the safe operation, adjustment and routine maintenance of your New Holland T8000 series tractor. The manual is divided into eleven chapters as outlined in the table of contents. Refer to the index at the end of this manual for locating specific items about your tractor.

Do NOT operate or permit anyone to operate or service this machine until you or the other persons have read this manual. Use only trained operators who have demonstrated the ability to operate and service this machine correctly and safely.

This Operator's Manual is to be stored in the manual compartment equipped on this machine. Make sure this manual is in good condition. Contact your dealer to obtain additional manuals. Contact your dealer for any further information or assistance about your machine. Your dealer has approved service parts. Your dealer has technicians with special training that know the best methods of repair and maintenance for your tractor.

Thank you so much for reading.  
Please click the “Buy Now!”  
button below to download the  
complete manual.



After you pay.

You can download the most  
perfect and complete manual in  
the world immediately.

Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)