

ORIGINAL INSTRUCTIONS

# OPERATOR'S MANUAL

---

**T4.85**

**T4.95**

**T4.105**

**T4.115**

Tractor

**Part number 47604535**

1<sup>st</sup> edition English

March 2014



# Contents

---

## 1 GENERAL INFORMATION

Note to the Owner .....	1-1
Proposition 65 .....	1-3
Electro-magnetic interference (EMC).....	1-3
International symbols .....	1-4
Introduction .....	1-6
Operator's manual storage .....	1-7
Tractor intended use.....	1-8
Component Identification .....	1-10

## 2 SAFETY INFORMATION

Safety rules and signal word definitions and signal word definitions .....	2-1
Safety rules - General information .....	2-2
Safety rules - Maintenance .....	2-2
Safety rules - Wheels and tires .....	2-3
Safety rules - Explosions and fires .....	2-4
Safety rules - Fire extinguisher .....	2-4
Safety rules - Battery .....	2-5
Safety rules - Passenger seat .....	2-5
Safety rules - Power Take-Off (PTO) .....	2-5
Safety rules - Seat belts .....	2-6
Safety rules - Operator protective structure .....	2-6
Safety rules - HVAC system .....	2-8
Safety rules - Personal Protective Equipment (PPE) .....	2-8
Safety rules - "Do not use" sign .....	2-8
Safety rules - Hazardous chemicals .....	2-8
Safety rules - Near utilities .....	2-9
Safety rules - In the event of electrical storms .....	2-9
Safety rules - Getting on and off the machine .....	2-9
Safety rules - Lifting and overhead loads .....	2-10
Ecology and the environment .....	2-11
Machine stability.....	2-12
Towing the tractor for recovery .....	2-14
Tractor jacking points.....	2-15
Burn prevention.....	2-16
Getting in and out of the machine .....	2-17
Safety signs .....	2-18

## 3 CONTROLS AND INSTRUMENTS

### ACCESS TO OPERATOR'S PLATFORM

General information .....	3-1
Cab .....	3-2

---

## OPERATOR'S SEAT

Mechanically-adjusted operator seat - Adjust .....	3-6
Pneumatically-adjusted operator seat - Adjust .....	3-7
Seat belt .....	3-9

## INSTRUCTOR'S SEAT

Instructional seat - Localisation overview .....	3-10
--	------

## FORWARD CONTROLS

Instrument cluster .....	3-11
Console Front console - Localisation overview.....	3-16

## LEFT-HAND SIDE CONTROLS

Cabless version .....	3-19
Version with cab .....	3-19

## RIGHT-HAND SIDE CONTROLS

Cabless version .....	3-20
Version with cab .....	3-21
Version with cab .....	3-22
Park lock.....	3-23
Console Right-hand console - Localisation overview .....	3-24
Heating, ventilation or air-conditioning control .....	3-25

## EXTERIOR CONTROLS

Trailer electrical socket .....	3-27
---------------------------------	------

## DISPLAY SETTINGS

Programmable display.....	3-28
Adjusting the dashboard/display brightness .....	3-29
Calibrating speed .....	3-31
Calibrating tool width .....	3-33
Programming maintenance work .....	3-34
Activating/deactivating buzzer.....	3-36
Setting units of measurement .....	3-37
Regenerating the diesel particulate filter (DPF) automatically/manually .....	3-38
Resetting the oil change counter .....	3-43
Viewing error codes .....	3-44

## 4 OPERATING INSTRUCTIONS

### COMMISSIONING THE UNIT

Basic operating safety rules .....	4-1
------------------------------------	-----

### STARTING THE UNIT

Starting the Engine .....	4-2
---------------------------	-----

---

## STOPPING THE UNIT

Stopping the engine .....	4-5
---------------------------	-----

## MOVING THE UNIT

Machine movement start-up.....	4-6
Operating in cold temperatures.....	4-7
Low idle speed management.....	4-8
Transmission operation.....	4-9

## 5 TRANSPORT OPERATIONS

### ROAD TRANSPORT

Transporting the machine .....	5-1
--------------------------------	-----

### RECOVERY TRANSPORT

Towing the tractor.....	5-2
-------------------------	-----

## 6 WORKING OPERATIONS

### FOUR WHEEL DRIVE (4WD)

Four-wheel drive with mechanical engagement.....	6-1
Four-wheel drive with electro-hydraulic control.....	6-2

### DIFFERENTIAL LOCK

Mechanical differential lock.....	6-3
-----------------------------------	-----

### REMOTE CONTROL VALVES

Safety rules.....	6-4
Rear remote control valve(s) .....	6-5
Single/double action hydraulic valves .....	6-7

### REAR POWER TAKE-OFF (PTO)

Safety rules.....	6-8
Power Take-Off (PTO) specifications.....	6-9
Spline output shaft replacement.....	6-9
Electrohydraulically controlled power take-off.....	6-10
Mechanically controlled power take-off.....	6-11
Power take-off speeds.....	6-12

### REAR HYDRAULIC LIFT

Hydraulic lift with mechanical control.....	6-13
Hydraulic lift with electronic control.....	6-15

### REAR 3-POINT HITCH

Three-point hitch adjustments.....	6-21
------------------------------------	------

---

Three-point linkage dimensions .....	6-23
--------------------------------------	------

## TOWBAR

General safety rules .....	6-24
Swinging drawbar .....	6-25

## WHEELS AND TIRES

Wheels and tires .....	6-26
Tire dimensions .....	6-30

## WHEEL TRACK ADJUSTMENT

Adjustment of the front tracks .....	6-31
Adjustment of the front mudguards .....	6-33
Adjustment of the steering angles .....	6-35
Front tracks diagram .....	6-36
Rear tracks diagram .....	6-38

## BALLAST

Safety rules .....	6-39
Front ballast .....	6-40
Rear Ballast .....	6-40
Liquid ballast .....	6-41

## 7 MAINTENANCE

### GENERAL INFORMATION

General safety before you service .....	7-1
Introduction .....	7-3
Fuel supply .....	7-4
Biodiesel fuel - Biodiesel Fuels .....	7-5
Organic Acid Technology (OAT) coolant .....	7-6
Body maintenance .....	7-7
Opening the hood .....	7-9
Fluids and lubricants .....	7-10

### MAINTENANCE CHART

Maintenance Chart .....	7-11
-------------------------	------

### As required

Radiator expansion tank .....	7-13
Windshield washer reservoir .....	7-13
Air conditioning - Dehydration filter .....	7-14
Radiator - Check .....	7-14
Brake pedals - Check .....	7-14
Machine lights .....	7-15
Tire pressure .....	7-15
Clutch pedal adjustment .....	7-15

---

## At warning message display

Dry air filter - External cartridge .....	7-16
Brake fluid level.....	7-17
Fuel filter water drain .....	7-17

## Every 10 hours or daily

Engine oil level .....	7-18
------------------------	------

## Initial 50 hours

Maintenance - Tighten.....	7-18
Maintenance - Check.....	7-18
Maintenance - Replace.....	7-19
Maintenance - Cleaning .....	7-19
Maintenance - Test .....	7-20
Maintenance - Grease.....	7-20

## Every 50 hours

2WD steering cylinder .....	7-21
2WD front axle trunnion pin .....	7-21
2WD steering spindle.....	7-21
Front axle 4WD.....	7-22
Rear three-point hitch - Grease .....	7-22
Rear hydraulic lift with mechanical control .....	7-23

## Every 100 hours

Air conditioning condenser .....	7-24
Transmission oil heat exchanger .....	7-24
Intercooler .....	7-24
Cab air filters .....	7-25
Cab recirculated air filter .....	7-25
Alternator belt.....	7-26
Compressor belt.....	7-26

## Every 300 hours

Hydraulic circuit oil filter .....	7-27
Auxiliary services oil filter.....	7-27
Dry air filter - External cartridge .....	7-28
Hydraulic oil tank .....	7-28
Front axle (4WD) oil level.....	7-29
4WD front axle final drives .....	7-29
4WD front axles stub .....	7-29

## Every 600 hours

Change engine oil and filter .....	7-30
Replacing the fuel filters .....	7-31
Fuel prefilter .....	7-31

---

Wheel bolt torque.....	7-32
------------------------	------

## Every 1200 hours or annually

Rear wheel hub.....	7-33
Replacing cab air filters.....	7-34
Replacing air filters.....	7-34
Fuel tank drain.....	7-34
Blow-by filter.....	7-35

## Every 1200 hours or two years

Front axle (4WD) oil replace.....	7-36
Replacing front axle final drive oil.....	7-36
Replacing transmission oil.....	7-36
Change the engine coolant fluid - Conventional type coolant.....	7-38

## Every 3600 hours

Change the engine coolant fluid - OAT type coolant.....	7-40
Diesel particulate filter (DPF).....	7-42

## ELECTRICAL SYSTEM

Battery service.....	7-43
Fuses and relay box.....	7-45
Fuse and relay locations.....	7-47
Light adjustments.....	7-57
Hood lamp replacement.....	7-58

## STORAGE

Tractor storage.....	7-59
----------------------	------

## CALIBRATION

Clutch calibration.....	7-60
Clutch calibration — Dual Command™ transmission.....	7-63

## 8 TROUBLESHOOTING

### FAULT CODE RESOLUTION

TROUBLESHOOTING ENGINE.....	8-1
Electrical system - Troubleshooting ELECTRICAL SYSTEM.....	8-3
Hydraulic systems - Troubleshooting HYDRAULIC SYSTEM.....	8-4
Rear three-point hitch - Troubleshooting HYDRAULIC LIFT AND 3-POINT LINKAGE.....	8-5
Hydraulic service brakes - Troubleshooting.....	8-6
Cab climate control - Troubleshooting.....	8-7

### ALARM(S)

Alarms.....	8-8
Display warnings overview.....	8-9

---

## SYMPTOM(S)

Viewing error codes .....	8-13
Error code identification .....	8-13
Fault code of digital instrument.....	8-15

## 9 SPECIFICATIONS

Dimensions and weights .....	9-1
Maximum permitted loads on front and rear axle.....	9-4
Maximum permitted loads on drawbar .....	9-4
Additional equipment attachment points .....	9-5
Speed table for 8 x 8 gearbox .....	9-7
Speed table for 12 x 12 gearbox .....	9-8
Speed table for 20 x 20 gearbox .....	9-10
Speed table for 24 x 24 gearbox .....	9-14
Speed table for 40 x 40 gearbox .....	9-16
Technical data .....	9-19

## 10 ACCESSORIES

Radio .....	10-1
Joystick operation .....	10-9
Joystick operation .....	10-10
Front-end loader.....	10-12

---



# 1 - GENERAL INFORMATION

## Note to the Owner

This manual contains information concerning the adjustment and maintenance of your new equipment. You have purchased a dependable machine, but only by proper care and operation can you expect to receive the performance and long service built into this equipment. Ensure that all operators read this manual with care and always leave it at their disposal for immediate reference.

The NEW HOLLAND Dealer will provide you with the general instructions for operating your new machine. Your dealer's staff of factory-trained service technicians will be glad to answer any questions that may arise regarding the operation of your machine.

New Holland Top Service is also available. Call 1-866-NEWHLND (1-866-639-4563) or email: [na.topservice@cnh.com](mailto:na.topservice@cnh.com).

Your NEW HOLLAND dealer carries a complete line of genuine NEW HOLLAND service parts. These parts are manufactured and carefully inspected to ensure high quality and accurate fitting of any necessary replacement parts. Be prepared to give your dealer the model and product identification number of your new equipment when ordering parts. Locate these numbers now and record them below. Refer to the 'General Information' section of this manual for the location of the model and product identification numbers of your machine.

PLEASE RECORD THE FOLLOWING INFORMATION
Model :
Product Identification Number (PIN):



Warning symbol. It is used with and without signal words to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

### **⚠ WARNING**

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

**Replace all shields before operating the machine.**

**Failure to comply could result in death or serious injury.**

W0012A

The machine has been designed and built according to the highest standards of quality and complies with the standing regulations on safety. However, the risk of accidents can never be completely excluded. That is why it is essential to observe elementary safety rules and precautions.

Read this manual carefully, paying particular attention to the instructions concerning safety, operation and maintenance so as to avoid the risk of injury while operating or servicing the machine.

Do not use this machine for any application or purpose other than those described in this manual. If the machine is to be used for work involving the use of special attachments, accessories or equipment, consult your NEW HOLLAND Dealer in order to make sure that any adaptations or modifications made are in keeping with the machine's technical specifications and with prevailing safety requirements.

Any modification or adaptation which is not approved by the manufacturer may invalidate the machine's initial conformity with safety requirements.

The machine must undergo regular inspections, the frequency of which varies according to the type of use. NEW HOLLAND Consult your authorised dealer.

Always keep this manual in the operator's compartment (in the seat back, behind the operator's seat). Make sure it is always complete and in good condition. To receive extra copies of the manual or copies in languages other than that of the country of residence, please contact your NEW HOLLAND dealer.

**NOTICE:** *The information in this manual is provided on the basis of information that was available at the time the manual was written. Settings, procedures, part numbers, software and other items may change, which may affect the maintenance of the machine. Ensure that you have the complete and most current information from your dealer before you start any machine operation. All data given in this book is subject to production variations.*

**Engine tampering statement:**

**ATTENTION:** *The fuel system and engine on your machine are designed and built to government emissions standards. Tampering by dealers, customers, operators and users is strictly prohibited by law. Failure to comply could result in government fines, rework charges, invalid warranty, legal action, and possible confiscation of the machine until rework to original condition is completed. Engine service and/or repairs must be done by a certified technician only!*

**Improvements**

CNH America LLC applies a policy of continuous product development and improvement. 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.

## Proposition 65

<b>CALIFORNIA Proposition 65 Warning</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. Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.

## Electro-magnetic interference (EMC)

Interference may arise as a result of add-on equipment which may not necessarily meet the required standards. As such interference can result in serious malfunction of the unit and/or create unsafe situations, you must observe the following:

- The maximum power of emission equipment (radio, telephones, etc.) must not exceed the limits imposed by the national authorities of the country where you use the machine.
- The electro-magnetic field generated by the add-on system should not exceed **24 V/m** at any time and at any location in the proximity of electronic components.
- The add-on equipment must not interfere with the functioning of the on board electronics.

Failure to comply with these rules will render the [brand] warranty null and void.

## International symbols

TYPICAL APPLICATIONS	RECOMMENDED SI (METRIC) UNITS		IMPERIAL UNIT	
	NAME	SYMBOL	NAME	SYMBOL
<b>AREA</b>				
	hectare	ha	acre	ha
	square meter	m <sup>2</sup>	square foot	ft <sup>2</sup>
			square inch	in <sup>2</sup>
	square millimetre	mm <sup>2</sup>	square inch	in <sup>2</sup>
<b>ELECTRICITY</b>				
	ampere	A	ampere	A
	volt	V	volt	V
	microfarad	μF	microfarad	μF
	ohm	Ω	ohm	Ω
<b>FORCE</b>				
	kilonewton	kN	pound	lb
	newton	N	pound	lb
<b>FORCE PER LENGTH</b>				
	Newton metres	Nm	pound inch	lb in
<b>FREQUENCY</b>				
	megahertz	MHz	megahertz	MHz
	kilohertz	kHz	kilohertz	kHz
	hertz	Hz	hertz	Hz
<b>FREQUENCY - ROTATIONAL</b>				
	revolution per minute	r/min	revolution per minute	r/min <sup>a</sup>
		rpm		rpm
<b>LENGTH</b>				
	kilometre	km	mile	mi
	meter	m	foot	ft
	centimetre	cm	inch	in
	millimetre	mm	inch	in
	micrometer	μm		
<b>MASS</b>				
	kilogram	kg	pound	lb
	gram	g	ounce	oz
	milligram	mg		
<b>POWER</b>				
	kilowatt	kW	horsepower	Hp
	watt	W	Btu/hour	Btu/hr
			Btu/minute	Btu/min
<b>PRESSURE or STRESS (FORCE PER AREA)</b>				
	kilopascal	kPa	pound per square inch	psi
			inch of mercury	inHg
	pascal	Pa	inch of water	inH <sub>2</sub> O
	megapascal	MPa	pound per square inch	psi

1 - GENERAL INFORMATION

TYPICAL APPLICATIONS	RECOMMENDED SI (METRIC) UNITS		IMPERIAL UNIT	
	NAME	SYMBOL	NAME	SYMBOL
TEMPERATURE (other than THERMODYNAMIC)				
	degrees Celsius	°C	degrees Fahrenheit	°F
TIME				
	hour	<b>h</b>	hour	<b>h</b>
	minute	<b>min</b>	minute	<b>min</b>
	second	<b>s</b>	second	<b>s</b>
TORQUE (includes BENDING MOMENT, MOMENT OF FORCE, and MOMENT OF A COUPLE)				
	newton meter	<b>N m</b>	feet-pounds	<b>lb ft</b>
			inch-pound	<b>lb in</b>
VELOCITY				
	kilometre per hour	<b>km/h</b>	mile per hour	<b>mph</b>
	meter per second	<b>m/s</b>	foot per second	<b>ft/s</b>
	millimetre per second	<b>mm/s</b>	inch per second	<b>in/s</b>
	meter per minute	<b>m/min</b>	foot per minute	<b>ft/min</b>
VOLUME (includes CAPACITY)				
	cubic meter	<b>m<sup>3</sup></b>	cubic yard	<b>yd<sup>3</sup> (cu yd)</b>
	litre	<b>l</b>	cubic inch	<b>in<sup>3</sup></b>
	litre	<b>l</b>	US gallon	<b>US gal</b>
			U.K. gallon	<b>UK gal</b>
			US quart	<b>US qt</b>
			U.K. quart	<b>UK qt</b>
	millilitre	<b>ml</b>	fluid ounce	<b>fl oz</b>
VOLUME PER TIME (includes DISCHARGE and FLOW RATE)				
	cubic meter per minute	<b>m<sup>3</sup>/min</b>	cubic foot per minute	<b>ft<sup>3</sup>/min</b>
	litre per minute	<b>l/min</b>	US gallon per minute	<b>US gal/min</b>
	millilitre per minute	<b>ml/min</b>	UK gallon per minute	<b>UK gal/min</b>
SOUND POWER LEVEL and SOUND PRESSURE LEVEL				
	decibel	<b>dB</b>	decibel	<b>dB</b>

## Introduction

### About this manual

#### **⚠ DANGER**

**Improper operation or service of this machine can result in an accident.**

**Do not operate this machine or perform any lubrication, maintenance, or repair on it until you have read and understood the operation, lubrication, maintenance, and repair information.**

**Failure to comply will result in death or serious injury.**

D0010A

This manual gives information for use of your machine, as intended and under the conditions foreseen by the manufacturer during normal operation and routine service and maintenance. Read and understand; keep it in good conditions and always safely store it in the provided pocket in the back of your seat for later easy retrieval. This manual does not contain all the information related to periodical service, converting and repairs to be carried out by professional service personnel. The Table of Contents page(s) are provided to have an overview of main manual's topics. A detailed alphabetic index is available at the end of this manual for locating specific items.

### Normal operation

- Normal operation means the use of the tractor for the purpose intended by the manufacturer by an operator familiar with the tractor and the mounted or towed equipment and complying with the information for operation and safe practices, as specified by the manufacturer in this manual and by the decals on the tractor and the equipment.
- Normal operation includes the preparation and storage of the tractor, swinging components into work position and vice versa, adding or removing ballast and picking up and setting off attachments.
- Normal operation includes the adjustment and setting of the tractor and equipment, for the specific condition of the field and/or the crop.

### Routine service

Routine service and maintenance means activities that must be done daily by an operator familiar with the tractor characteristics and complying with the information for routine service and safe practices, as specified by the manufacturer in this manual and by decals on the tractor, in order to maintain its proper function. Routine service includes activities such as fueling, cleaning, washing, topping up fluid levels, greasing, replacing of consumable articles such as lamp bulbs.

### Converting, periodical service and repair

- Periodical service means activities that must be done at defined intervals by trained personnel familiar with the tractor characteristics and which are complying with the information for periodical service and safe practices, as

partly specified by the manufacturer in this manual and in other Company literature, in order to maintain the expected life time of the tractor.

- Converting means activities that must be done by professional service personnel familiar with the tractor characteristics and complying with the information for converting, as partly specified by the manufacturer in this manual, in assembly instructions or in other Company literature, in order to fit the tractor to a specific configuration.
- Repair means activities that must be done by professional service personnel only familiar with the tractor characteristics and complying with the information for repair, as specified by the manufacturer in the dealer's workshop manual, in order to restore the proper function of the tractor after a failure or degradation of performance.

### Spare Parts

"Non-original" spare parts have not been tested or authorised by the Manufacturer. Installation and/or use of such products may adversely affect the tractor's design specifications, thereby compromising operational safety. The manufacturer cannot be held responsible for any damage resulting from the use of "non-original" spare parts. No modifications may be made to the tractor without written authorisation from the Manufacturer.

### Warranty

The tractor is guaranteed in accordance with current legislation in your country and in line with contractual agreements reached with the dealer at the time of sale. However, the warranty is no longer valid if the rules and instructions for the use and maintenance of the tractor, described in this Manual, are not observed.

### Cleaning the tractor

Your tractor is an advanced machine, fitted with an electrohydraulic control system. Care must be taken when cleaning the tractor, especially if a pressurized water cleaner is used.

Never stand too close to the tractor or direct the water jet on electrical components, seals or intake openings, etc. Never direct jets of cold water at the hot engine or exhaust.

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)