

OPERATOR'S MANUAL

T4.85

T4.95

T4.105

Tractor

Part number 47435555

1st edition English
December 2012



Contents

1 GENERAL INFORMATION

Note to the Owner	1-1
Proposition 65	1-2
Electro-magnetic interference (EMC).....	1-3
International symbols	1-4
Introduction	1-6
Operator's manual storage	1-7
Tractor intended use.....	1-8
Ecology and the Environment	1-10
Identification plates	1-11
Component Identification	1-13

2 SAFETY INFORMATION

Safety rules and signal word definitions	2-1
Safety information	2-2
Air conditioning safety regulations.....	2-6
Vehicle vibration levels	2-7
Cab guard	2-8
Machine stability.....	2-10
Personal protective equipment (PPE).....	2-12
Tractor jacking points.....	2-13
Hazardous chemicals.....	2-14
Burn prevention.....	2-15
Fire or explosion prevention	2-16
Getting in and out of the machine	2-17
Emergency exit	2-18
Safety signs	2-19

3 CONTROLS/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	3-10
Console Front console - Localisation overview.....	3-16

LEFT-HAND SIDE CONTROLS

Cableless version	3-20
Handbrake	3-21

RIGHT-HAND SIDE CONTROLS

Cableless version	3-22
Version with cab	3-23
Console Right-hand console - Localisation overview	3-24
Heating, ventilation or air-conditioning control	3-25

DISPLAY SETTINGS

Programmable display	3-27
Adjusting the dashboard/display brightness	3-28
Calibrating speed	3-30
Calibrating tool width	3-32
Programming maintenance work	3-33
Activating/deactivating buzzer	3-35
Setting units of measurement	3-36
Regenerating the diesel particulate filter (DPF) automatically/manually	3-37
Resetting the oil change counter	3-42
Viewing error codes	3-43

4 OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

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

STARTING THE UNIT

Starting the Engine	4-2
Machine movement start-up	4-5

STOPPING THE UNIT

Stopping the engine	4-6
Battery disconnect switch	4-7

MOVING THE UNIT

Transmission operation	4-8
12 x 12 transmission speed table	4-11
Speed table for 12 x 12 gearbox with additional reducer (20 x 12)	4-13
Speed table for 12 x 12 gearbox with additional reducer (20 x 20)	4-15

5 TRANSPORT OPERATIONS

ROAD TRANSPORT

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

RECOVERY TRANSPORT

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

6 WORKING OPERATIONS

2WD or 4WD

Four-wheel drive with electro-hydraulic control.....	6-1
--	-----

DIFFERENTIAL LOCK

Mechanical differential lock.....	6-1
Electrohydraulic 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
General.....	6-9
Speed adjustment.....	6-10
Electrohydraulically controlled power take-off.....	6-11
Mechanically controlled power take-off.....	6-12
Power take-off speeds.....	6-13

HYDRAULIC LIFT

General safety and precautions.....	6-14
Hydraulic lift with mechanical control.....	6-15

THREE POINT HITCH

Three-point linkage.....	6-17
Three-point linkage dimensions.....	6-19
Additional equipment attachment points.....	6-20

TOWBAR

General safety rules.....	6-22
Swinging drawbar.....	6-23

REAR TOW HITCH

General safety rules.....	6-24
---------------------------	------

MAXIMUM PERMITTED LOADS

Front and rear axle	6-25
Towbar	6-26

WHEELS AND TIRES

Wheels and tyres	6-27
Tyre dimensions	6-31

WHEEL TRACK ADJUSTMENT

Adjustment of the front tracks	6-32
Adjustment of the front mudguards	6-34
Adjustment of the steering angles	6-36
Front tracks diagram	6-37
Rear tracks diagram	6-39

BALLAST

Safety rules	6-40
Front ballast	6-41
Rear Ballast	6-41
Wheels - Ballast	6-42

7 MAINTENANCE

GENERAL INFORMATION

General safety before you service	7-1
Introduction	7-3
Running-in period	7-4
Fuel supply	7-5
Biodiesel fuel - Biodiesel Fuels	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	7-13
Distributor oil recovery pan	7-14
Radiator - Check	7-14
Brakes - Adjust	7-14
Compressor belt	7-15
Machine lights	7-15
Tire pressure	7-15
Clutch pedal adjustment	7-16

AT WARNING MESSAGE DISPLAY

Dry air filter - External cartridge	7-17
Brake fluid level.....	7-18
Fuel filter water drain	7-18

Every 10 hours or daily

Engine oil level	7-19
------------------------	------

Every 50 hours

Rear wheel hub.....	7-20
Lift and linkage	7-20
Front axle.....	7-20

Every 100 hours

Air conditioning condenser	7-21
Transmission oil heat exchanger Only for Power Shuttle and HI-LO	7-21
Intercooler	7-21
Cab air filters	7-22
Cab recirculated air filter	7-22

Every 300 hours

Hydraulic circuit oil filter	7-23
Auxiliary services oil filter.....	7-23
Dry air filter - External cartridge	7-24
Alternator belt.....	7-24
Transmission and hydraulic lift	7-25
Front Axle Oil	7-25
Front axle final drives.....	7-25
Front axle spindle.....	7-26
Towing hitch	7-26
Battery electrolyte level.....	7-26

Every 600 hours

Change engine oil and filter	7-27
Replacing the fuel filters	7-28
Fuel prefilter	7-28
Wheel bolt torque.....	7-29

Every 1200 hours or annually

Replacing cab air filters.....	7-30
Replacing air filters	7-30
Fuel tank drain.....	7-30

Every 1200 hours or two years

Replacing front axle oil	7-31
Replacing front axle final drive oil	7-31

Replacing transmission oil.....	7-31
Washing cooling system.....	7-32

1800 hours Service

Fuel injectors - Check	7-35
------------------------------	------

Every 3000 hours

Diesel particulate filter (DPF).....	7-35
--------------------------------------	------

ELECTRICAL SYSTEM

Battery service.....	7-36
Fuses and relay box.....	7-38
Fuse and relay locations	7-40
Light adjustments.....	7-50
Hood lamp replacement.....	7-51

STORAGE

Tractor storage	7-52
-----------------------	------

CALIBRATION

Clutch calibration	7-53
Electronic lift calibration	7-56

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
Technical data	9-3

10 ACCESSORIES

Radio	10-1
Joystick - Operating	10-9
Front loader and bucket - Operating	10-10

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. Please have all operators read this manual carefully and keep it available for ready reference.

Your NEW HOLLAND AGRICULTURE dealer will instruct you in the general operation of your new equipment. 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.

Your NEW HOLLAND AGRICULTURE dealer carries a complete line of genuine NEW HOLLAND AGRICULTURE service parts. These parts are manufactured and carefully inspected to insure 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):



This is the safety alert 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

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

Proposition 65

CALIFORNIA Proposition 65 Warning
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm. Battery posts, terminals and related accessories contain lead and lead compounds. 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
AREA				
	hectare	ha	acre	ha
	square meter	m ²	square foot	ft ²
			square inch	in ²
	square millimetre	mm ²	square inch	in ²
ELECTRICITY				
	ampere	A	ampere	A
	volt	V	volt	V
	microfarad	μF	microfarad	μF
	ohm	Ω	ohm	Ω
FORCE				
	kilonewton	kN	pound	lb
	newton	N	pound	lb
FORCE PER LENGTH				
	Newton metres	Nm	pound inch	lb in
FREQUENCY				
	megahertz	MHz	megahertz	MHz
	kilohertz	kHz	kilohertz	kHz
	hertz	Hz	hertz	Hz
FREQUENCY - ROTATIONAL				
	revolution per minute	r/min	revolution per minute	r/min ^a
		rpm		rpm
LENGTH				
	kilometre	km	mile	mi
	meter	m	foot	ft
	centimetre	cm	inch	in
	millimetre	mm	inch	in
	micrometer	μm		
MASS				
	kilogram	kg	pound	lb
	gram	g	ounce	oz
	milligram	mg		
POWER				
	kilowatt	kW	horsepower	Hp
	watt	W	Btu/hour	Btu/hr
			Btu/minute	Btu/min
PRESSURE or STRESS (FORCE PER AREA)				
	kilopascal	kPa	pound per square inch	psi
			inch of mercury	inHg
	pascal	Pa	inch of water	inH ₂ 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	h	hour	h
	minute	min	minute	min
	second	s	second	s
TORQUE (includes BENDING MOMENT, MOMENT OF FORCE, and MOMENT OF A COUPLE)				
	newton meter	N m	feet-pounds	lb ft
			inch-pound	lb in
VELOCITY				
	kilometre per hour	km/h	mile per hour	mph
	meter per second	m/s	foot per second	ft/s
	millimetre per second	mm/s	inch per second	in/s
	meter per minute	m/min	foot per minute	ft/min
VOLUME (includes CAPACITY)				
	cubic meter	m³	cubic yard	yd³ (cu yd)
	litre	l	cubic inch	in³
	litre	l	US gallon	US gal
			U.K. gallon	UK gal
			US quart	US qt
			U.K. quart	UK qt
	millilitre	ml	fluid ounce	fl oz
VOLUME PER TIME (includes DISCHARGE and FLOW RATE)				
	cubic meter per minute	m³/min	cubic foot per minute	ft³/min
	litre per minute	l/min	US gallon per minute	US gal/min
	millilitre per minute	ml/min	UK gallon per minute	UK gal/min
SOUND POWER LEVEL and SOUND PRESSURE LEVEL				
	decibel	dB	decibel	dB

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