OPERATOR'S MANUAL

T8.320

T8.350

T8.380

T8.410

T8.435

T8.380 SmartTrax[™]

T8.410 SmartTrax[™]

T8.435 SmartTrax™

Tractor

PIN ZERE08100 and above



Contents

NOTE: The Operator's Manual consists of two volumes. The first volume contains operating information, the second volume the maintenance and diagnostic information.

1 GENERAL INFORMATION	
Note to the owner	
Engine tampering	
Tractor intended use	
Electro-magnetic compatibility (EMC)	
ISOBUS certification	
Product identification	
Machine orientation	
Component identification	
Selective Catalytic Reduction (SCR) system	
2 SAFETY INFORMATION	
Safety rules and signal word definitions	2-1
Safety rules - General	
Safety rules - General maintenance safety	
Safety rules - Wheels and tires	2-4
Safety rules - Driving on public roads and general transportation safety	2-4
Safety rules - Fire and explosion prevention	
Safety rules - General battery safety	
Safety rules - Hydraulic system safety	2-6
Safety rules - Instructional seat safety	
Safety rules - Operator presence system	2-7
Safety rules - Power Take-Off (PTO)	2-7
Safety rules - Reflectors and warning lights	2-7
Safety rules - Seat belts	2-7
Safety rules - Roll Over Protective Structure (ROPS)	2-8
Safety rules - Cab protection	2-9
Safety rules - Air conditioning system	2-9
Safety rules - Personal Protective Equipment (PPE)	2-9
Safety rules - Do Not Operate tag	2-9
Safety rules - Hazardous chemicals	2-10
Safety rules - Utility safety	2-10
Safety rules - Electrical storm safety	2-10
Safety rules - Mounting and dismounting	2-10
Safety rules - Working at heights	2-11
Safety rules - Lifting and overhead loads	2-11
Safety rules - Implements, tools and trailers	2-11
Safety rules - Roll over and tip over	2-12
Proposition 65	
Ecology and the environment	2-14
Safety signs	2-15
Selective Catalytic Reduction (SCR) exhaust treatment - Safety signs	2-25

3 CONTROLS AND INSTRUMENTS	
ACCESS TO OPERATOR'S PLATFORM	
Tractor access	3-1 3-3
Lower Step	5-5
OPERATOR'S SEAT	
Control identification	3-4
INSTRUCTOR'S SEAT	0.0
Overview	3-8
FORWARD CONTROLS	
Steering column	
Front console	
Pedal controls	. 3-14
LEFT-HAND SIDE CONTROLS	
Pneumatic trailer brake	. 3-16
RIGHT-HAND SIDE CONTROLS Armrest console	2 17
Multi function handle	. 3-19
Engine speed control	
Control panel	
Joystick	. 3-33
Rear hitch controls	
Adjusting the armrest console	
REARWARD CONTROLS	
Fender console	
Automatic temperature control system	. 3-46
Ventilation	. 3-47
OVERLIEAR CONTROL C	
OVERHEAD CONTROLS Interior lamps	. 3-49
EXTERIOR CONTROLS	
Rear fender	. 3-50
Front hitch	. 3-52
INSTRUMENT CLUSTER Overview	. 3-53
Gauges	

Status and warning icons	3-55
Upper display	3-58
Lower display	3-62
Keypad	3-64
Setup menu	3-66
Rear tire radius chart	3-72
Adjust menu	3-73
Performance features	3-81
4 OPERATING INSTRUCTIONS	
COMMISSIONING THE UNIT	
Engine - Safety rules	4-1
STARTING THE UNIT	
Normal engine starting	1 1
Cold temperature energica	
Cold temperature operation	4-10
STOPPING THE UNIT	
Stopping the engine	4-12
MOV/INIO THE LINUT	
MOVING THE UNIT	4.44
FULL POWERSHIFT TRANSMISSION	
Powershift transmission Best practices for prolonged transmission life	
Inching pedal and throttle	
Powershift transmission controls	
Upper display - Powershift transmission	
Driving the Powershift vehicle	
Setting default gears	
Ground Speed Management (GSM)	
CONTINUOUSLY VARIABLE TRANSMISSION (CVT)	
Auto Command brake, pedal and throttle operation Auto Command controls	
Upper display	
Auto Command operation	
Driving the Auto Command transmission	4-54
Transmission messages	
POWERSHIFT AND CVT TRANSMISSIONS	
Selective Catalytic Reduction (SCR) system	
Engine idling or full catalyst messages	
Mechanical Front Drive (MFD)	
Differential lock system	
Suspended axle	
Ride controlEngine power boost	
Constant engine speed	
Suspended cab	
Ougpended Cab	4-09

	Headland management system 4	l-90
	PARKING THE UNIT Automatic park lock4	l-96
5	TRANSPORT OPERATIONS	
	ROAD TRANSPORT	
	Tractor warning lamps and Slow Moving Vehicle (SMV) symbol	
	Wide transport marker light	
	Tractor warning lamps	
	Safe transport speed	
	Safety chain	
	Calcty Shain	0 1
	CHIDDING TOANCDODT	
	SHIPPING TRANSPORT Securing the tractor for shipping	5-8
	RECOVERY TRANSPORT	
	Safety rules	5-9
	Towing the tractor	
6	WORKING OPERATIONS	
	GENERAL INFORMATION	
	Overview	6-1
	REAR POWER TAKE-OFF (PTO)	
	Safety rules	6-2
	Connecting the Power Take-Off (PTO)	
	Interchangeable Power Take-Off (PTO) shaft	
	Rear Power Take-Off (PTO) operation	
	Power Take-Off (PTO) fender switch operation	
	Auto Power Take-Off (PTO) operation)-17
	FRONT POWER TAKE-OFF (PTO)	
	Overview	6-20 8-21
	Tront tower rake-on (t ro) operation)-∠ 1
	DEAD LITCH	
	REAR HITCH Identification	5-24
	Link adjustment6	
	Hitch high clearance adjustment6	6-29
	Hydraulic links	
	Sway limiter adjustment	
	Mechanical float adjustment	
	moonamoa noat aajaotmont	, 51

Hitch quick coupler - Category III/IIIN Hitch quick coupler - Category IVN Hitch operation Hitch remote switch operation Position control operation Load control operation Slip control operation Hitch set point	
FRONT HITCH Overview Front hitch operation	
DRAWBARS AND TOWING ATTACHMENTS Safety rules Drawbar capacity/position Adjusting the drawbar	6-69
TRAILER BRAKING SYSTEMS Safety rules	6-76
AUXILIARY CONNECTIONS Auxiliary power and lighting Cab power connections Radar connection Implement ISOBUS connector	6-80 6-81
HYDRAULIC REMOTE CONTROL VALVES Valve couplers and connections Motor return circuit Power beyond circuit Flow capacity Hydraulic transport lock Operating the controls Remote valve display screens Remote hydraulic auto mode Auto depth control Joystick operation	6-87 6-88 6-89 6-90 6-91 6-95 6-98
BALLASTING THE TRACTOR Guidelines Tire load and inflation charts Weights, cast metal. Wheel slip and power hop performance	6-118 6-132

MECHANICAL FRONT DRIVE (MFD) AXLES	
Front axle identification	. 6-149
Tire combinations and tread positions	
Steering and oscillation stops	
Tread and fender settings - Class 4.75 and 5.0 fixed front axles	
Tread and fender settings - Class 4.75 and 5.0 saddle suspended front axles .	
Tread and fender settings - Class 5.0 wide front axles	
Front wheel fenders	. 6-176
Front wheel fenders - Class 4.75 and 5.0 fixed and suspended axles	
Front wheel fenders - Class 5.0 wide fixed and suspended axles	. 6-182
REAR AXLE	
Rear wheel installation	
Rear wheel tread settings	
Dual/triple wheel setup for 508 mm (20 in)/559 mm (22 in) row spacing	
Adjustable rear wheel	. 6-206
REAR TRACKS	
Tire load and inflation charts Tractors with rear tracks	. 6-208
Maximum front ballast recommendations	
Front wheel tread settings	
Track preconditioning	. 6-216
7 MAINTENANCE	
GENERAL INFORMATION	
Safety rules	
Dealer service and parts	
Maintenance guidelines	
Opening the hood	
Closing the hood	
Filling the fuel tank	
Filling the Diesel Exhaust Fluid (DEF)/AdBlue® tank	
Battery disconnect switch	
Battery access and service	
Tire and rim service	
Tractor jacking points	
Capacities	
Consumables - Engine oil	
Consumables - Transmission/hydraulic system fluid	
Consumables - Diesel fuel	
Consumables - Biodiesel fuels	
Consumables - Diesel Exhaust Fluid (DEF)/AdBlue®	
Consumables - Organic Acid Technology (OAT) coolant	
Electrical component location	
Lamps and bulbs	
Maintenance chart notes	
manitoriano danimary addamininininininininininininininininininin	

MAINTENAN Maintenance	NCE CHART chart	7-34
•	nessage display ice icon/message*	7-36
	message	
	n oil filter switch	
	filter switch	
First 10 to 50	0 hours	7_17
	orque	
•	nd planetary oil	
Every 10 hou	•	
•	/el	
	n oil level	
•	nt level	
	nd front axle	
•	urs or weekly ary fuel filter	7-53
First 100 hou Powershift tra	U rs ansmission clutch calibration	7-55
Every 100 ho		
Front hitch Front Power	Take-Off (PTO) drive shaft	7-61 7-63
Every 200 ho	ours	
Track alignme	ent	7-64
Every 300 ho		
•	r level (Note B)	
_	take and exhaust hoses	
_	Int level - deaeration tank	
	orque	
	lote A)	
	nd planetary oil level (Note B)	
	n oil pressure	
	Take-Off (PTO) oil level	

Every 400 hours	
Cab air filter*	7-79
Every 600 hours	
Engine oil and filter*	7-82
Engine coolant antifreeze protection	
Engine coolant hoses and clamps	
Engine fuel filter*	
Engine auxiliary fuel filter*	
Fuel system bleeding	
Changeable Power Take-Off (PTO) internal splines	
Diesel Exhaust Fluid (DEF)/AdBlue® in-line filter	
Front Power Take-Off (PTO) oil and filter*	
Engine air precleaner*	
Engine all precieatier	1-91
Every 1000 hours or annually	
Pneumatic brake system dryer	7-98
Powershift transmission clutch calibration	
Every 1200 hours or annually	
Differential and planetary oil	7 105
Engine air filters*	
Lingino dii intera	
Every 1500 hours	
Transmission oil	7 112
Hydraulic oil filter*	
Transmission oil filter*	
Idler/roller wheel oil	
Engine crankcase filter*	7-118
Every 3000 hours	
	7 400
Engine valve adjustment (Note C)	7-122
Every 3600 hours	
Diesel Exhaust Fluid (DEF)/AdBlue® supply module filter	7-123
Event 4000 bears on event fever veens	
Every 4000 hours or every four years	
Engine coolant	7-126
As required	
Vehicle fire prevention	7-128
Track inspection and bolt torque	
·	

Track rotation	
Track tension releaseTrack alignment	7-130
Cab air filter*	7-134
Grille screen and radiator area	
Transmission clutch and accumulator	
Tire pressure	
Fan belt	
Remote valve collection bottle	
Remote valve couplers	
Cab fabric and carpet	
Seat belt	7-150
STORAGE	
Preparing for storage	
Removal from storage	7-152
ELECTRICAL SYSTEM	
Radio or audio system	
Battery removal and installation	
Auxiliary battery connections Headlight	
Flood and work light	
Grille work light	
Fender tail light and warning light	
Roof work light	
Side turn indicator light	
Rotating beacon light	
Interior light	7-103
8 TROUBLESHOOTING	
ALARM(S)	
Display warnings overview	8-1
Display warnings overview	
Display warnings - Level 2	
Display warnings - Level 3	8-7
Display warnings - Level 4	8-9
0) (1457014(0)	
SYMPTOM(S)	
Engine symptoms	
Transmission symptoms	
Hitch symptoms	
Brake symptoms	
Cab environment symptoms	
Electrical power system symptoms	8-17

9 SPECIFICATIONS	
Engine specifications	9-1
Power train specifications	9-2
Operating speeds	
Operating speeds - SmartTrax™ tractors	9-7
Vehicle dimensions and shipping weight	
Vehicle dimensions and shipping weight - SmartTrax™ tractors	
Maximum operating weight	9-19
10 ACCESSORIES Farming system displays Rear view mirrors Chemical tank mounting Loader connection and operation General accessories	
11 FORMS AND DECLARATIONS	
Delivery report - owner copy	
Delivery report - dealer copy	
First service - owner copy	
First service - owner copy	

1 - GENERAL INFORMATION

Note to the owner

This manual contains important information about the safe operation, adjustment and routine maintenance of your T8. or T8. SmartTrax™ series tractor. The manual is divided into 10 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 behind the operator's seat in the vehicle. Make

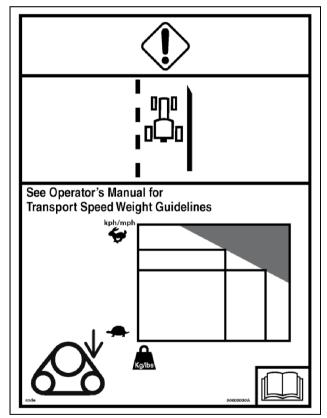
sure this manual is in good condition. Contact your dealer to obtain additional manuals.

Your NEW HOLLAND 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. They will also provide any after-sales service you may need, and genuine NEW HOLLAND parts, your guarantee of quality and match.

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

Tractors equipped with rear tracks

On SmartTrax models, refer to the information starting on page **9-7** for transport speed weight limitations.



RAIL14TR03870BA

Engine tampering

The fuel system, exhaust after-treatment 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!

Tractor intended use

T8. or T8. SmartTrax™ series tractors with standard equipment and authorized attachments, are intended to be used for customary farming, land leveling and related agriculture operations (intended use). Installation of utility (dozer) blades, tile plows, or push bars on the tractor is not recommended. Any tractor damage resulting from the installation and/or use of such equipment is not covered by the tractor warranty.

Consult an authorized dealer or CNH Industrial America LLC on changes, additions or modifications that can be required for this machine to comply with various regulations and safety requirements. Unauthorized modifications will cause serious injury or death. Anyone making such unauthorized modifications is responsible for the consequences.

The tractor is not designed for light/heavy forestry applications; usage is prohibited for forestry applications.

Do not use this machine for any purpose or in any manner other than as described in the manual, decals, or other product safety information provided with the machine. These materials define the machine's intended use.

Use in any other way is considered as contrary to the intended use. The manufacture accepts no liability for any damage or injury resulting from this misuse and these risks must be born solely by the user.

Electro-magnetic compatibility (EMC)

Interference may arise as a result of add-on equipment that 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 NEW HOLLAND warranty null and void.

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