# **OPERATOR'S MANUAL**

T7.195S

T7.215S

T7.230

T7.245

**T7.260** 

**Standard** 

Tractor - STAGEV

PIN HACT7\*\*\*\*KD401001 and above



# **Contents**

1	GENERAL INFORMATION	
-	Metric and Imperial units abbreviations	1-1
	To the owner	1-3
	Electro-magnetic interference (EMC)	1-5
	Operator's manual storage	1-6
	Product identification	
	Engine identification	
	Drive line identification	
	Cab identification	
	Product identification plate	
	Noise level information sheet	
	Programming tractor functions	
	Before operating the tractor	
	International symbols	
	Vibration level information sheet	
	Selective Catalytic Reduction (SCR) system	
	Selective Catalytic Reduction (SCR) system	. 1-20
2	SAFETY INFORMATION	
	Safety precautions	
	Safety decals	
	Safety rules	. 2-12
	Burn prevention	. 2-19
	Prevention of fire or explosions	. 2-20
	Fire extinguisher	. 2-21
	Protection offered by the tractor	. 2-22
	Ecology and the environment	. 2-25
	Hazardous substances	
	Emergency exit	
	Wheel chocks	
	Intended use statement	
	Passenger's seat	
	Safety aspects in accordance with Regulation (EU) 1322/2014 - Annex XXII and subseamendments and modifications	
	amenuments and modifications	. 2-32
_		
3	CONTROLS AND INSTRUMENTS	
	ACCESS TO OPERATOR'S PLATFORM	
	Introduction	3-1
	Cab air filters	3-5
	In cab storage (where fitted)	
	Cable and wiring routing	3-7
	Mobile telephone usage	3-7
	Implement monitor installation	3-8

OPERATOR'S SEAT	2.0
Operator's seat	
Air suspension seat with passive or Dynamic Damping System (DDS)	
Seat belt	
Seat beit	3-Z I
PASSENGER'S SEAT	
Passenger seat	3-22
FORWARD CONTROLS	
Ignition key	3-23
Hazard light switch	3-23
Lights and turn indicator lever	
Follow me home lights	
Windshield wiper and washer controls	
Electronic parking brake	
Clutch pedal	
Foot brakes	
Steering column	
LEET LIAND CIDE CONTDOLC	
LEFT-HAND SIDE CONTROLS Hand brake	3_35
Tand brake	, o-oo
DICHT HAND SIDE CONTDOLS	
RIGHT-HAND SIDE CONTROLS Switch panel	3_36
Advanced Steering Control activation switch	
Variable Ratio Steering (VRS)	
Autoguidance system	
Autoguidance - Variable ratio steering	
Variable ratio steering and Autoguidance symbols on color display (where fitted).	
variable ratio steering and Autoguldance symbols on color display (where litted).	5-45
REARWARD CONTROLS	
Switches on C-pillar	3-44
Battery isolator control switch	
Hydraulic lift rod adjust	3-46
Hydraulic top link adjust	
Lock switch for Electro Hydraulic Remote (EHR) control valves	3-48
OVERHEAD CONTROLS	
Switch panel	3-49
Left-hand and right-hand outermost work light switch	
Interior light	
Climate controls	
Manual temperature control	3-53
Automatic Temperature Control (ATC)	3-54

	INSTRUMENT CLUSTER	
	Analog Digital Instrument Cluster (ADIC)	3-55
	Gauges	
	Indicator and warning lights	
	Displays	3-59
	Keypad enhanced	
	Selecting or changing the display settings	3-64
	Active and Manual Catalyst Management	3-65
	Manual Catalyst Management	3-67
	Ground speed calibration	3-73
	Performance monitor	
	Color monitor (where fitted)	
	Pop-up screens on color display	
	Performance monitor on color display	
	Programming the displays	
	Alarm functions	3-102
	Accessing stored error codes	
	Selective Catalytic Reduction (SCR) exhaust treatment - Overview	
	Warning and advisory symbols	3-114
4	OPERATING INSTRUCTIONS	
	COMMISSIONING THE UNIT	
	Refueling the tractor	1_1
	Nerdeling the tractor	
	STARTING THE UNIT	
	Starting the tractor	
	Grid heater cold start aid (where fitted)	
	Fuel heater (where fitted)	
	Coolant immersion heater (where fitted)	
	Transmission oil heater (where fitted)	
	Boosting the battery	4-7
	STOPPING THE UNIT	
	Stopping the engine	4-8
	Automatic engine shut down	
	Automatic engine shut down with enhanced keypad (where fitted)	
	, , , , , , , , , , , , , , , , , , ,	
	MOVING THE HAUT	
	MOVING THE UNIT	4 44
	Operating in cold temperatures	
	Low idle speed management	4-12
5	TRANSPORT OPERATIONS	
	PREPARING FOR ROAD TRANSPORT	
	Carrying the tractor on a transporter	5_1
	Secure the high visibility roof panel	
	Coodic the high violetity foot partor	J-1

RECOVERY TRANSPORT Freeing a stuck tractor. Towing the tractor.	
6 WORKING OPERATIONS	
GENERAL INFORMATION  Variable engine power management (where fitted)  Constant engine speed  Differential lock  Four wheel drive  Front axle suspension (where fitted)	6-3 6-5 6-7
HTS basic Quick guide Recording and replaying Explanation of symbols Recording a sequence Replaying a sequence	. 6-11 . 6-13 . 6-15 . 6-16
Full powershift transmission Foot throttle pedal Hand throttle lever Transmission operation. Transmission electronic control module Powershift - Control Shuttle lever Setting the sharp shuttle function. Driving the tractor. Speed matching Auto shifting field mode (where fitted) Auto shifting in road mode (where fitted) Start off gear (where fitted) Autoshift field mode (where fitted) Setting the forward and reverse gear ratios (where fitted) Auto shifting and 'go to' modes (where fitted) Creeper gears (where fitted) Fault codes Ground speed chart powershift transmission Ground speeds	6-20 6-21 6-22 6-23 6-24 6-25 6-27 6-28 6-30 6-33 6-34
REAR POWER TAKE-OFF Power Take-Off (PTO) operating precautions Changing the PTO output shaft Attaching PTO driven equipment Power take-off (PTO) operation PTO shiftable multi speed External PTO controls Auto Power Take-Off (PTO) operation	6-44 6-45 6-46 6-51 6-53

FRONT POWER TAKE OFF Front PTO operation	6-58
REAR HITCH	
Electronic Draft Control (EDC)	
Electronic Draft Control (EDC)	
Electronic Draft Control (EDC) operation	
Electronic Draft Control (EDC) operation	
External hitch controls	0-73
FRONT HITCH	
Settings and adjustments	6-75
Hitch operation	
Front hitch operation	
External hitch controls	6-86
Front hitch management (where fitted)	
Auxiliary front couplers (where fitted)	
External controls for front couplers	6-94
HYDRAULIC REMOTE CONTROL VALVES	
Remote control valves	
Operating with remote valves	
Connecting remote cylinders	
Hydraulic/axle oil level	
ELECTRO-HYDRAULIC REMOTE CONTROL VAL	VES (where fitted)
Mid mount remote valves	,
Setting the remote valve priority	
Mid mount (EHR) valve settings	
Joystick operation	6-112
HYDRAULIC POWER BEYOND PORT	
Power beyond circuit	
ISO Power beyond couplings	
J. J	
THREE POINT HITCH	
Attaching three-point hitch equipment	
Lift rod adjustment	
Top link adjustment	
Quick hitch	
Stabilizers	6-127
DRAWBARS AND TOWING ATTACHMENTS	
Drawbars and towing attachments	
Automatic pickup hitch	
Rear trailer hitches	6-138

TRAILER BRAKING SYSTEMS	
Trailer brake release switch	6-145
Air-operated trailer brakes (Universal type)	6-146
Air-operated trailer brakes (UK type)	6-149
Air-operated trailer brakes (Italian type)	6-150
Auxiliary air supply connector (where fitted)	6-151
Hydraulic trailer brakes (Universal type - Dual line)	6-152
Hydraulic trailer brakes (Universal type - Single line)	6-155
Hydraulic trailer brakes (Italian type)	6-156
WHEEL TRACK ADJUSTMENT	
Tire combinations	6-157
Front wheel track adjustment	6-159
Front wheel alignment	
Steering stops	
Front axle oscillation stops	
Front wheel fenders	
Rear wheel track adjustment	
Flange type axle (where fitted)	
Bar type axle (where fitted)	
Dual rear wheels (where fitted)	
BALLASTING AND TIRES	0.400
Ballasting and tires	
Iron weights (where fitted)	
Liquid ballast	
Tire inflation	
Tire pressures and permissible loads	
AUXILIARY POWER CONNECTIONS	
Diagnostic socket	
Trailer socket electrical	
Cab power connections	
Internal power connectors	
External power connectors	
ISO bus classes	6-199
7 MAINTENANCE	
GENERAL INFORMATION	7.4
Introduction	
Fuel - Storage, handling and transport	
Biodiesel fuel	
Engine oils	
Protective devices	
Tractor lacking points	

General specifications	
Capacities	
Organic Acid Technology (OAT) coolant	7-11
MAINTENANCE CHART	
Maintenance chart	7-12
WHEN THE WARNING LAMP LIGHTS	
Change the engine air cleaner outer element	
Draining the fuel filter water separator	7-15
EVERY 10 HOURS OR EACH DAY	
Check the engine coolant level	7-16
Checking the engine oil level	
Check the remote control valve drain bottles	7-18
Check windscreen washer reservoir	7-18 7-18
Dialit all reservoir oit all operated trailer brake	7-10
FIRST 50 HOURS	
Service operations	7-19
EVERY 50 HOURS	
Clean the cab air filter	7-21
Clean the SCR cover air ducts	7-23
Clean the cooler section	
Grease all fittings	
Check the tire pressures and the tire condition	7-32
EVERY 150 HOURS	7 22
Inspect the compressor drive belt	7-33
EVERY 375 HOURS	
Check the battery fluid level	
Inspect the poly V-belt	
Adjust the hand brake	
Check the transmission oil level, the rear axle oil level and the hydraulic oil level	
Check the front PTO gearbox oil level	7-38
EVERY 750 HOURS	
Change engine oil and filter	7-39
Change the first stage fuel filter and the fuel filter element	7-41
Change the charge pump oil filter	
Check the engine air intake connections	
Check the transmission oil cooler pipe couplings	7-45

EVERY 750 HOURS OR EVERY YEAR Change the engine air cleaner outer element	7-46
EVERY 750 HOURS OR EVERY 2 YEARS Change the 4WD planetary hub oil	7-46
EVERY YEAR Check the accumulators (where fitted)	7-47
EVERY 1500 HOURS Change the front PTO gearbox oil	7-47
EVERY 1500 HOURS OR EVERY YEAR Change the cab air filters	7-47
EVERY 1500 HOURS OR EVERY 2 YEARS Change the engine air cleaner inner element	7-50
Change the hydraulic suction pump oil filter	7-52 7-53 7-54
EVERY 2 YEARS Change the air conditioning receiver drier	7-56
EVERY 1500 HOURS OR EVERY 4 YEARS Change the poly V-belts	7-56
EVERY 2250 HOURS Check the engine tappet valve clearance	7-58
EVERY 3750 HOURS OR EVERY 3 YEARS Change the DEF/AdBlue main filter	7-59
EVERY 3750 HOURS OR EVERY 4 YEARS Change the engine coolant fluid	7-60
GENERAL MAINTENANCE Cleaning the tractor	7-66

Hydraulic system hoses	
Check the brake pedal latching/unlatching	7-67
Adjust the cab suspension (where fitted)	7-68
Adjust the automatic pickup hitch	7-69
Headlight adjustment	7-70
Work light adjustment	7-70
Bulb replacement	7-71
Fuses and relays	7-73
Protecting the electronic and electrical systems during battery charging or welding	7-85
Battery removal and installation	7-86
STODACE	
STORAGE Tractor storage	7 88
Preparation for use after storage	
Freparation for use after storage	7-00
8 TROUBLESHOOTING	
FAULT CODE RESOLUTION	
Introduction	. 8-1
ALARM(S)	
Fault codes and symbols	. 8-2
·	
SYMPTOM(S)	
	0.4
Engine	
Transmission	
Three-point hitch	
Brakes	
Cab	
Electrical system	
9 SPECIFICATIONS	
GENERAL DIMENSIONS	. 9-1
General dimensions	
Minimum turn radius	
Axle dimension	
Maximum permissible operating weights	
Tractor weights	
Engine and Fuel tank - Capacity	
Driveline - Capacity	
Front axle system - Capacity	
Engine	
Transmission	. 9-8
Rear Power Take-Off (PTO)	
Front Power Take-Off (PTO)	
Hydraulic system	
Remote control valves	
Nomote control varves	J-1J

	Three-point hitch	9-13
	Brakes	9-14
	Steering	9-15
	Electrical equipment	
	Minimum hardware tightening torques	
10	ACCESSORIES	
. •	Radio (where fitted)	10-1
	External rear view mirrors	10-2
	Border marker plates	10-4
	Auxiliary head lights and signature lights (where fitted)	
	Rotating beacon	
	Front-end loader fixation points	
11	FORMS AND DECLARATIONS	
• •	Service record 1st 50 hour, Owner copy	11-1
	Service record 1st 50 hour, Dealer copy	11-3
	Telematics module declaration of conformity	

## 1 - GENERAL INFORMATION

# Metric and Imperial units abbreviations

Typical applications	Metric unit		Imperial unit	
	Name	Symbol	Name	Symbol
Area (Land area)				
	hectare	ha	acre	ac
	square meter	m²	square foot	ft²
			square inch	in²
	square millimeter	mm²	square inch	in²
Electricity				
	ampere	Α	ampere	Α
	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 per meter	N/m	pound per foot	lb/ft
	· ·		pound per 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 <sup>a</sup>
	par in management	rpm	_	rpm
Length		•		•
	kilometer	km	mile	mi
	meter	m	foot	ft
	centimeter	cm	inch	in
	millimeter	mm	inch	in
	micrometer	μm		
Mass				
	kilogram	kg	pound	lb
	gram	g	ounce	OZ
	milligram	mg		
Mass per mass		, i		
	milligram per kilogram	mg/ kg	parts per million	ppm
Power		J		
	kilowatt	kW	horsepower	Нр
	watt	W	Btu per hour	Btu/hr
		• • •	Btu per minute	Btu/min
Pressure or stress (Force	per area)		Dia poi illiffato	2(0/111111
	kilopascal	kPa	pound per square inch	psi
	Miopascai	in a	inch of mercury	inHg
	pascal	Pa	inch of water	inH2O
	·	MPa		
	megapascal		pound per square inch	psi
	millibar	mbar	+	
	bar	bar	1	

Typical applications	Metric unit		Imperial unit		
	Name	Symbol	Name	Symbol	
Temperature (other than th					
	degrees Celsius	°C	degrees Fahrenheit	°F	
Time					
	hour	h	hour	h	
	minute	min	minute	min	
	second	S	second	S	
Torque (includes bending n	noment, moment of force, an			1	
	newton meter	N m	pound foot	lb ft	
			pound foot	lb in	
Velocity					
	kilometer per hour	km/h	mile per hour	mph	
	meter per second	m/s	foot per second	ft/s	
	millimeter 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	
	liter	I	cubic inch	in³	
	liter		US gallon	US gal	
			UK gallon	UK gal	
			US quart	US qt	
			UK quart	UK qt	
	milliliter	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	
	liter per minute	l/min	US gallon per minute	US gal/min	
	milliliter per minute	ml/min	UK gallon per minute	UK gal/min	
Sound power level and sou	Sound power level and sound pressure level				
·	decibel	dB	decibel	dB	
Water hardness					
	German hardness	°dH	English hardness	°e	
	French hardness	°fH	parts per million	ppm	

### Glossary

Acronym	Definition
DEF	Diesel Exhaust Fluid
ISO	International Organization for Standardization
MSDS	Material Safety Data Sheet
NOx	Nitrogen Oxide
PPE	Personal Protective Equipment
SCR	Selective Catalytic Reduction
ULSD	Ultra Low Sulfur Diesel
%	Percent
<	Less than
>	Greater than

#### To the owner

#### General information

This manual has been prepared according to ISO 3600:1996 to assist you in the correct procedure for running-in, driving and operating and for the maintenance of your new tractor. Read this manual carefully. Your tractor is intended for use in normal and customary agricultural applications.

If at any time you require advice concerning your tractor, do not hesitate to contact your authorized dealer. He has factory trained personnel, genuine manufacturers' parts and the necessary equipment to carry out all your service requirements.

The specification are provided for your information and guidance. For further information concerning your tractor and equipment, consult your authorized dealer.

All data given in this manual is subject to production variations. Dimensions and weight are approximate only. The illustrations do not necessarily show tractors in standard condition or imply that these features are available in all countries. For exact information about any particular tractor, please consult your authorized dealer.

Your tractor has been designed and built to give maximum performance, economy and ease of operation under a wide variety of operating conditions. Your tractor fulfills all requirements as specified in the Regulation (EU) No 167/2013 of the European Parliament and of the Council. Prior to delivery, the tractor was carefully inspected, both at the factory and by your dealer to ensure that it reaches you in optimum condition. To maintain this condition and ensure trouble- free operation, it is important that the routine services, as specified on page **7-12** of this manual, are carried out at the recommended intervals.

All persons training to operate, or who will operate this tractor should be old enough to possess a valid local vehicle operating permit (or meet other applicable local age requirements). These persons must demonstrate the ability to operate and service the tractor in correct and safe manner.

#### About this manual

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 condition 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.

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