OPERATOR'S MANUAL

T7.195S

T7.215S

T7.230

T7.245

T7.260

Standard

Tractor - STAGEV

PIN HACT7****KD401001 and above



Contents

	NERAL INFORMATION ric and Imperial units abbreviations	1 1
	he owner	
Elec	ctro-magnetic interference (EMC)	1-5
	erator's manual storage	
•	duct identification	
	jine identification	
	re line identification	
	identification	
	duct identification plate	
	gramming tractor functions	
	ore operating the tractor	
	rnational symbols	
	chine stability	
Sele	ective Catalytic Reduction (SCR) system	1-19
2 SAF	FETY INFORMATION	
	ety precautions	. 2-1
	ety decals	
	ety rules	
	n prevention	
	vention of fire or explosions	
Fire	extinguisher	2-21
Prot	tection offered by the tractor	2-22
Eco	logy and the environment	2-25
	zardous substances	
	ergency exit	
	eel chocks	
	nded use statementructor's seat	
11150	Tuctor's Seat.	2-51
3 COI	NTROLS AND INSTRUMENTS	
	CESS TO OPERATOR'S PLATFORM	
	Introduction	
	Cab air filters	
	In cab storage (where fitted)	
	Mobile telephone usage	
	Implement monitor installation	
	implement monitor installation	. 5-0
OP	PERATOR'S SEAT	
(Operator's seat	. 3-9
	Air suspension seat deluxe	3-10
	Air suspension seat with passive or Dynamic Damping System (DDS)	
;	Seat belt	3-21

INSTRUCTOR'S SEAT Instructional seat	. 3-22
FORWARD CONTROLS	
Ignition key	
Hazard light switch	
Lights and turn indicator lever	
Follow me home lights	
Windshield wiper and washer controls	
Electronic parking brake	
Clutch pedal	
Foot brakes	
Steering Column	. 5-54
LEFT-HAND SIDE CONTROLS	
Hand brake	. 3-35
RIGHT-HAND SIDE CONTROLS	
Switch panel	. 3-36
Advanced Steering Control activation switch	. 3-37
Variable Ratio Steering (VRS)	. 3-38
Autoguidance system	
Autoguidance - Variable ratio steering	
Variable ratio steering and Autoguidance symbols on color display (where fitted)	. 3-43
REARWARD CONTROLS	
Switches on C-pillar	3-44
Battery isolator control switch	
Hydraulic lift rod adjust	
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	
Automatic Temperature Control (ATC)	. 3-54
INSTRUMENT CLUSTER Analog Digital Instrument Cluster (ADIC)	3 EE
Gauges Indicator and warning lights	
Displays	
Keypad enhanced	
neypau eililailiceu	. 5-02

	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	
	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	11
	Neruening the tractor	4 -1
	STARTING THE UNIT	
	Starting the tractor	4-3
	Grid heater cold start aid (where fitted)	
	Fuel heater (where fitted)	
	Coolant immersion heater (where fitted)	
	Transmission oil heater (where fitted)	
	Boosting the battery	
	STOPPING THE UNIT	
	Stopping the engine	
	Automatic engine shut down	
	Automatic engine shut down with enhanced keypad (where fitted)	4-10
	MOVING THE UNIT	
	Operating in cold temperatures	4-11
	Low idle speed management	
	Lon Mio opoda managomonti	T 12
5	TRANSPORT OPERATIONS	
	PREPARING FOR ROAD TRANSPORT	
	Carrying the tractor on a transporter	5_1
	Secure the high visibility roof panel	
	2000.0 the high ficionity roof parior	
	RECOVERY TRANSPORT	
	Freeing a stuck tractor	5-2
	Towing the tractor	

6 WORKING OPERATIONS

GENERAL INFORMATION	
Variable engine power management (where fitted)	
Constant engine speed	
Differential lock	
Four wheel drive	
HTS basic	
Quick guide	
Recording and replaying	
Explanation of symbols	
Recording a sequence	
Replaying a sequence	
	0 .0
TRANSMISSION	
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)	6-36
Fault codes	
Ground speed chart powershift transmission Ground speeds	6-38
REAR POWER TAKE-OFF	
Power Take-Off (PTO) operating precautions	6-43
Changing the PTO output shaft	6-44
Attaching PTO driven equipment	6-45
Power take-off (PTO) operation	6-46
PTO shiftable multi speed	6-51
External PTO controls	
Auto Power Take-Off (PTO) operation	6-55
FRONT POWER TAKE OFF Front PTO operation	6 50
1 10111 F 10 0peration	0-36
REAR HITCH	
Electronic Draft Control (EDC)	6-61
	5 51

Electronic Draft Control (EDC)	6-65
Electronic Draft Control (EDC) operation	6-67
Electronic Draft Control (EDC) operation	6-72
External hitch controls	
FRONT HITCH	
Settings and adjustments	6-75
Hitch operation	6-78
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	6-95
Operating with remote valves	
Connecting remote cylinders	
Hydraulic/axle oil level	6-104
ELECTRO-HYDRAULIC REMOTE CONTROL VALVE	S (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	6-117
THREE POINT HITCH	
Attaching three-point hitch equipment	6-118
Lift rod adjustment	6-120
Top link adjustment	
Quick hitch	
Stabilizers	6-127
DRAWBARS AND TOWING ATTACHMENTS	2 121
Drawbars and towing attachments	
Automatic pickup hitch	
Rear trailer hitches	6-138
TRAILER BRAKING SYSTEMS	2.1.
Trailer brake release switch	
Air-operated trailer brakes (UK type)	
All-operated trailer brakes (Or type)	

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	
Front wheel track adjustment	
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)	6-179
BALLASTING AND TIRES	
Ballasting and tires	6 193
Iron weights (where fitted)	
Liquid ballast	0-100 ۵-100 100 ه
•	
Tire inflation Tire pressures and permissible loads	
The pressures and permissible loads	
AUXILIARY POWER CONNECTIONS	
Diagnostic socket	6-193
Trailer socket electrical	
Cab power connections	6-195
Internal power connectors	
External power connectors	6-197
ISO bus classes	6-199
7 MAINTENANCE	
GENERAL INFORMATION	
	7-1
Introduction	7-2
Fuel - Storage, handling and transport	
Biodiesel fuel	
Engine oils	
Protective devices	
Tractor jacking points	
General specifications	
Capacities	
Organic Acid Technology (OAT) coolant	

MAINTENANCE CHART Maintenance chart	7-12
WHEN THE WARNING LAMP LIGHTS	
Change the engine air cleaner outer element	7-14
Draining the fuel filter water separator	7-15
EVERY 10 HOURS OR EACH DAY	
Check the engine coolant level	
Checking the engine oil level	
Check the remote control valve drain bottles	7-18
Check windscreen washer reservoir	7-18 7-18
Diani an reservon on an operated transfer brake	7-10
FIRST 50 HOURS	- 40
Service operations	7-19
EVERY 50 HOURS	
Clean the cab air filter	
Clean the SCR cover air ducts	
Clean the cooler section	
Check the front and the rear wheel nuts	
Check the tire pressures and the tire condition	
EVERY 150 HOURS	
Inspect the compressor drive belt	7-33
EVERY 375 HOURS	
Check the battery fluid level	7-33
Inspect the poly V-belt	7-35
Adjust the hand brake	
Check the transmission oil level, the rear axle oil level and the hydraulic oil level	7-37
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	
Change the charge pump oil filter	
Check the engine air intake connections	
Check the transmission oil cooler pipe couplings	
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 Change the Diesel Exhaust Fluid (DEF)/AdBlue® suction filter Change the 4WD differential oil	7-50
Change the hydraulic suction pump oil filter	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. Check first stage fuel filter and water trap. Bleeding the fuel system Hydraulic system hoses Check the brake pedal latching/unlatching	
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	
Fuses and relays	7-73
Protecting the electronic and electrical systems during battery charging or welding	7-85
Battery removal and installation	
•	
STORAGE	
Tractor storage	
Preparation for use after storage	7-88
8 TROUBLESHOOTING	
FAULT CODE RESOLUTION	
Introduction	8-1
ALARM(S)	
Fault codes and symbols	8_2
r aut codes and symbols	0-2
SYMPTOM(S)	
Engine	8-4
Transmission	
Hydraulics	
Three-point hitch	
Brakes	8-6
Cab	
Electrical system	8-7
9 SPECIFICATIONS	
GENERAL DIMENSIONS	9_1
General dimensions	
Minimum turn radius	
Axle dimension	9-4
Maximum permissible operating weights	
Tractor weights	
Engine and Fuel tank - Capacity	
Driveline - Capacity	
Front axle system - Capacity	
Engine	
Transmission	
Rear Power Take-Off (PTO)	
Front Power Take-Off (PTO)	
Hydraulic system	
Three-point hitch	
Remote control valves	
Three-point hitch	
Brakes	
Steering	9-15

	Electrical equipment	9-15
	Minimum hardware tightening torques	
10	ACCESSORIES	40.4
	Radio (where fitted)	10-1
	External rear view mirrors	10-2
	Border marker plates	
	Auxiliary head lights and signature lights (where fitted)	
	Rotating beacon	10-6
	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 ^a
	par in	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 the					
	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			· · · · ·	·	
·	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