OPERATOR'S MANUAL

T7.230

T7.245

T7.260

Stage IV

Sidewinder II

Tractor

Contents

1	GENERAL INFORMATION Metric and imperial units abbreviations	1_1
	To the owner	
	Operator's manual storage	
	Product identification	
	Engine identification	
	Drive line identification	1-8
	Cab identification	
	Product identification plate	
	Ecology and the environment	
	Noise level information sheet	
	Programming tractor functions	
	Before operating the tractor	
	International symbols	
	Vibration level information sheet	
	Machine stability	
	Selective Catalytic Reduction (SCR) system	. 1-10
_		
2	SAFETY INFORMATION	0.4
	Safety precautions	
	Safety decals	
	Safety rules	
	Burn preventionPrevention of fire or explosions	
	Fire extinguisher	
	Protection offered by the tractor	
	Hazardous substances	
	Emergency exit	
	Wheel chocks	
	Intended use statement	. 2-26
	Passenger's seat	
	Safety aspects	. 2-29
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	
	Mobile telephone usage	
	Implement monitor installation	
	Cab air pressurisation control (where fitted)	3-9
	OPERATOR'S SEAT	
	Operator's seat	. 3-10

Air suspension seat deluxe	3-11
Air suspension seat with passive or Dynamic Damping System (DDS)	3-15
Air suspension seat 'evolution active'	
Seat belt	3-27
PASSENGER'S SEAT	
Passenger seat	3-28
FORWARD CONTROLS	
Ignition key	3-29
Hazard lights switch	
Lights and turn indicator lever	
Follow me home lights	
Windshield wiper and washer controls	
Electronic parking brake	
Anti-lock braking system ABS Operation	
Clutch pedal	
Foot brakes	
Exhaust brake (where fitted)	
Steering column	3-46
LEFT-HAND SIDE CONTROLS	
Handbrake	3-47
RIGHT-HAND SIDE CONTROLS	
Integrated control panel	3-48
Hand throttle	
Multi function handle	3-49
REARWARD CONTROLS	2 50
Switches on C-pillar	
Hydraulic master switch	
Autoguidance system (where fitted)ISO bus functionality	
Battery isolator switch (where fitted)	
Climate controls	
Manual temperature control	
Automatic Temperature Control (ATC)	
OVERHEAD CONTROLS	
Switch panel work lights	3-58
Left-hand and right-hand outermost work light switch	3-59
Interior light	3-60
INSTRUMENT CLUSTER	
Analog Digital Instrument Cluster (ADIC)	3-61

Gauges	3-62
Indicator and warning lights	3-63
Displays	3-65
Keypad enhanced	
Selecting or changing the display settings	3-70
Ground speed calibration	
Performance monitor	
Armrest color display	
Pop-up screens on color display	
Performance monitor on color display	3-85
Programming the displays	3-90
Alarm functions	3-93
Accessing stored error codes	
Selective Catalytic Reduction (SCR) exhaust treatment - Overv	iew 3-96
Warning and advisory symbols	3-106
Warning and advisory symbols	3-119
4 OPERATING INSTRUCTIONS	
COMMISSIONING THE UNIT	
Refueling the tractor	4-1
STARTING THE UNIT	
Starting the engine	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	
OTODDINO THE LINET	
STOPPING THE UNIT	4.0
Stopping the engine	
Automatic engine shut down	
Automatic engine shut down with enhanced keypad (where fitte	d)4-10
MOVING THE UNIT	
Operating in cold temperatures	4-11
Low idle speed management	
Reversible engine fan	4-14
5 TRANSPORT OPERATIONS	
PREPARING FOR ROAD TRANSPORT	- .
Carrying the tractor on a transporter	
Secure the high visibility roof panel	5-1

RECOVERY TRANSPORT Freeing a stuck tractor	. 5-2
Towing the tractor	
6 WORKING OPERATIONS	
GENERAL INFORMATION	
Variable engine power management	
Constant engine speed	
Differential lock	
Front axle suspension (where fitted)	
Automated headland functions	
Headland turn sequence - Quick guide	6-12
Recording and replaying	
Explanation of symbols	
Recording a sequence	
Replaying a sequence	
Headland function and color display screen	
Deleting a sequence with color display	
Automated headland functions	
Universal Symbols	
Recording a sequence	
Replaying a sequence	
Saving a sequence	
Edit a sequence	
Recalling a sequence	6-45
Deleting a sequence	6-49
TRANSMISSION	
Full powershift transmission	6-52
Foot throttle pedal	
Transmission operation	6-53
Powershift transmission controls	
Transmission shuttle shift lever	
Setting the sharp shuttle function	
Transmission display	
Driving the tractor	
Auto shift function	
Auto shifting field mode	
Auto shifting in road mode	
Setting the forward and reverse gear ratios	
Creeper gears (where fitted)	
Fault codes	6-71
Ground speed chart powershift transmission Ground speeds	6-72

REAR POWER TAKE-OFF (PTO)	
Power Take-Off (PTO) operating precautions	6-77
Changing the PTO output shaft	6-78
Attaching PTO driven equipment	6-79
PTO operation	
PTO shiftable multi speed	
Electronic PTO displays Electronic (where fitted)	
External PTO controls	
Auto PTO operation	6-89
FRONT POWER TAKE OFF	
PTO operation	
Auto PTO operation	6-94
REAR HITCH	
Electronic Draft Control (EDC)	
Settings and adjustments	
Electronic Draft Control (EDC) operation	
External hitch controls	6-107
FRONT HITCH	0.400
Settings and adjustments	
Front hitch operation	
Auxiliary front couplers (where fitted)	
External hitch controls	6-121
Tront management	0 121
ELECTRO-HYDRAULIC REMOTE CONTROL VALVE	•
Remote control valves	6-126
Valve priority	
Programming tractor functions	
Connecting remote cylinders	
Operating with remote valves	
Joystick operation with a front loader	
Mid mount remote valves	
External EHR controls	6-158
EHR implement control setting	
Transmission rear axle and hydraulic system oil level	6-163
HYDRAULIC POWER BEYOND PORT	
Power beyond circuit	
Power beyond valve - Static description	
ISO Power beyond couplings	6-167

THREE POINT HITCH	
Attaching three-point hitch equipment	
Lift rod adjustment	
Top link adjustment	
Lower links	
Quick hitch	
Lower links	6-178
DRAWBARS AND TOWING ATTACHMENTS	
Drawbars and towing attachments	6-182
Swinging drawbar	
Automatic pickup hitch	
Automatic pickup hitch	
Rear trailer hitches	6-195
TRAILER BRAKING SYSTEMS	
Air-operated trailer brakes	6 202
Air-operated trailer brakes (Italian type)	
Trailer brake bias control	
Trailer brakes air operated	
Hydraulic trailer brakes	
Hydraulic trailer brakes (Italian type)	
, , , , , , , , , , , , , , , , , , ,	
WHEEL TRACK ADJUSTMENT	
Front wheel track adjustment	
Front wheel alignment	
Steering stops	
Front axle oscillation stops	6-216
Front wheel fenders	
Rear wheel track adjustment	
Flange type axle (where fitted)	
Bar type axle (where fitted)	
Dual rear wheels (where fitted)	6-230
BALLASTING AND TIRES	
Ballasting and tires	6 ₋233
Iron weights (where fitted)	
Liquid ballast	
Tire inflation	
Tire pressures and permissible loads	6-241
ALIVII IADV DOMED COMMENTALIO	
AUXILIARY POWER CONNECTIONS	0.040
Diagnostic socket	
Trailer electrical socket	
Electrical power connectors	
Internal power connectors	
External bower confilectors	0-247

ISO bus classes ISO bus functionality	
7 MAINTENANCE	
GENERAL INFORMATION	
Introduction	
Fuel requirement - Diesel fuel	
Fuel - Storage, handling and transport	
Biodiesel fuel	
Protective devices	
Tractor jacking points	
Lubricants and coolants	
General specifications	
Capacities	
Organic Acid Technology (OAT) coolant	. 7-12
MAINTENANCE CHART	7.40
Maintenance chart	. 7-13
WHEN THE WARNING LAMP LIGHTS	
Engine air cleaner	
Fuel system water separator	
Check the blake lidid level	. 1-11
EVERY 10 HOURS OR EACH DAY Coolant level check	7_18
Engine oil level	
Remote valve collection bottle	
Windscreen wash wipe	
Air reservoir	. 7-20
FIRST 50 HOURS	7.04
Service operations	. 7-21
EVERY 50 HOURS	
Cab air filters	7-23
Clean the coolers	
Grease fittings	
Check the front and the rear wheel nuts	. 7-34
Tire inflation pressures	
EVERY 100 HOURS	
Drive belts - check	
Drive belts - check	. 7-36

EVERY 300 HOURS Battery fluid level	7-37
Transmission oil level	
Handbrake	7-40
Front PTO oil levelFront axle oil - Four-Wheel Drive (4WD)	
Tront axie oii - rodi-wheel brive (+vvb)	7-41
EVERY 600 HOURS	
Change engine oil and filter	
Change the first stage fuel filter and the fuel filter element	
Engine air precleaner	
Charge pump hydraulic filter	
Transmission	
DEF/AdBlue® in-line filter	7-49
EVERY 1200 HOURS OR ANNUALLY	
Cab air filters	7-50
Change the hydraulic suction pump oil filter	7-51
Differential and planetary oil	
Front hubs - 4WD.	
Front PTO change oil	
Grease the rear axle shaft bearing	7-54
EVERY 1200 HOURS OR EVERY 2 YEARS	
DEF/AdBlue® filter	
Change the engine air cleaner inner element	
Engine tappet valve clearance	
Air-operated trailer brakes Poly (V) belts change	
Change transmission oil	
EVERY 2 YEARS	- 0.1
Change the air conditioning receiver drier	7-61
EVERY 1800 HOURS OR EVERY 2 YEARS	
Engine - breather filter replacement	7-62
EVEDY 2600 HOURS OF EVERY 2 VEARS	
EVERY 3600 HOURS OR EVERY 2 YEARS DEF/AdBlue® filter	7-62
EVERY 3600 HOURS OR EVERY 4 YEARS Change the engine coolant fluid	7-63
	. 00
GENERAL MAINTENANCE	
Cleaning the tractor	7-67

	Fuel system water separator	7-69
	Bleeding the fuel system	
	Hydraulic system hoses	7-70
	Brake Pedal	
	Cab suspension, if equipped	
	Adjust the automatic pickup hitch	
	Headlight adjustment	
	Work light adjustment	
	Bulb replacement	
	Fuses and relays	
	Protecting the electronic and electrical systems during battery charging or welding.	
	Battery - replacement	. 7-86
	STORAGE	
	Tractor storage	7-87
	Removing the machine from storage	
0 7		
Ø I	FROUBLESHOOTING	
	FAULT CODE RESOLUTION	
	Introduction	. 8-1
	ALARM(S)	
	Fault codes and symbols	8-2
	T duit oodoo diid symbols	0 2
	0)//40701//0)	
	SYMPTOM(S)	
	Engine	
	Transmission	
	Hydraulics	
	Three-point hitch	
	Brakes	
	Cab Electrical system	
	Licotrical system	
	SPECIFICATIONS	
	eneral dimensions	
	Frame - General specification	
	Capacities	
	Transmission - Capacity	
	Front axle system - Capacity	
	Engine	
	Transmission	. 9-6
	Rear Power Take-Off (PTO)Front Power Take-Off (PTO)	
	,	
	Hydraulic system Three-point hitch	
	Remote control valves	
	Three-point hitch	
	Brakes	

9-12 9-13 9-14
9-14
10-1
10-1
10-3
10-3
10-4
11-1
11-3
11-5

1 - GENERAL INFORMATION

Metric and imperial units abbreviations

Typical applications	Metric unit		Imperial unit	
<i>.</i> , .,	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	А	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
	-	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				
	milligram per kilogram	mg/ kg	parts per million	ppm
Power				
	kilowatt	kW	horsepower	Нр
	watt	W	Btu per hour	Btu/hr
			Btu per 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	inH2O
	megapascal	MPa	pound per square inch	psi
	millibar	mbar		•
	bar	bar		
-			<u>.</u>	

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 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 authorised 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 authorised 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 authorised dealer.

Your tractor has been designed and built to give maximum performance, economy and ease of operation under a wide variety of operating conditions. 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 **7-13** of this Manual, are carried out at the recommended intervals.

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 op-

- eration 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.

CLEANING THE TRACTOR

Your tractor is a state- of- the- art machine with sophisticated, electronic controls. This should be taken into consideration when cleaning the tractor, particularly if using a high pressure washer. Even though every precaution has been taken to safeguard electronic components and connections, the pressure generated by some of these machines is such that complete protection against water ingress cannot be guaranteed.

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