

ORIGINAL INSTRUCTIONS - according to Directive 2006/42/EC, Annex I 1.7.4.1

OPERATOR'S MANUAL

T7.230 AutoCommand

T7.245 AutoCommand

T7.260 AutoCommand

T7.270 AutoCommand

Stage IV

Sidewinder II

Tractor

Part number 47960466

2nd edition English

September 2016

Replaces part number 47584468



Contents

1 GENERAL INFORMATION

Metric and imperial units abbreviations.....	1-1
To the owner.....	1-3
Operator's manual storage	1-5
Product identification	1-6
Engine identification	1-7
Drive line identification	1-8
Cab identification	1-8
Product identification plate	1-8
Ecology and the environment	1-9
Noise level information sheet.....	1-10
Programming tractor functions	1-10
Before operating the tractor	1-11
International symbols.....	1-12
Vibration level information sheet	1-13
Machine stability.....	1-14
Selective Catalytic Reduction (SCR) system.....	1-18

2 SAFETY INFORMATION

Safety precautions.....	2-1
Safety decals	2-3
Safety rules.....	2-11
Burn prevention.....	2-17
Prevention of fire or explosions.....	2-18
Fire extinguisher.....	2-19
Protection offered by the tractor.....	2-20
Hazardous substances	2-23
Emergency exit	2-24
Wheel chocks.....	2-25
Intended use statement	2-26
Passenger's seat	2-28
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).....	3-6
Cable and wiring routing.....	3-7
Mobile telephone usage	3-7
Implement monitor installation.....	3-8
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'	3-21
Seat belt	3-27

PASSENGER'S SEAT

Passenger seat	3-28
----------------------	------

FORWARD CONTROLS

Ignition key	3-29
Hazard lights switch	3-29
Lights and turn indicator lever	3-30
Follow me home lights.....	3-30
Windshield wiper and washer controls	3-31
Electronic parking brake.....	3-32
Anti-lock braking system ABS Operation	3-36
Clutch pedal	3-43
Foot brakes.....	3-43
Exhaust brake (where fitted)	3-44
Steering column	3-45

LEFT-HAND SIDE CONTROLS

Handbrake.....	3-46
----------------	------

RIGHT-HAND SIDE CONTROLS

Integrated control panel	3-47
Multi function handle	3-48

REARWARD CONTROLS

Switches on C-pillar	3-49
Hydraulic master switch	3-50
Heated screens (where fitted)	3-51
Autoguidance system (where fitted)	3-52
ISO bus functionality	3-52
Battery isolator switch (where fitted)	3-53
Climate controls	3-54
Manual temperature control	3-55
Automatic Temperature Control (ATC)	3-56

OVERHEAD CONTROLS

Switch panel work lights.....	3-57
Left-hand and right-hand outermost work light switch.....	3-58
Interior light.....	3-59

INSTRUMENT CLUSTER

Analog Digital Instrument Cluster (ADIC)	3-60
Gauges	3-61

Indicator and warning lights	3-62
Displays	3-64
Keypad enhanced	3-67
Selecting or changing the display settings	3-69
Ground speed calibration.....	3-70
Performance monitor	3-73
Armrest color display	3-78
Pop-up screens on color display	3-79
Performance monitor on color display.....	3-84
Programming the displays.....	3-89
Alarm functions	3-92
Accessing stored error codes	3-94
Selective Catalytic Reduction (SCR) exhaust treatment - Overview	3-95
Warning and advisory symbols	3-104
Warning and advisory symbols	3-117

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).....	4-5
Fuel heater (where fitted).....	4-5
Coolant immersion heater (where fitted)	4-6
Transmission oil heater (where fitted)	4-7
Boosting the battery	4-8

STOPPING THE UNIT

Stopping the engine	4-9
Automatic engine shut down	4-9
Automatic engine shut down with enhanced keypad (where fitted)	4-10

MOVING THE UNIT

Operating in cold temperatures.....	4-11
Low idle speed management.....	4-14
Reversible engine fan	4-15

5 TRANSPORT OPERATIONS

PREPARING FOR ROAD TRANSPORT

Carrying the tractor on a transporter	5-1
Secure the high visibility roof panel	5-1

RECOVERY TRANSPORT

Freeing a stuck tractor.....	5-2
------------------------------	-----

Towing the tractor.....	5-3
-------------------------	-----

6 WORKING OPERATIONS

GENERAL INFORMATION

Variable engine power management	6-1
Constant engine speed	6-3
Differential lock	6-6
Four wheel drive.....	6-8
Front axle suspension (where fitted)	6-10
Automated headland functions	6-12
Headland turn sequence - Quick guide.....	6-12
Recording and replaying	6-14
Explanation of symbols.....	6-16
Recording a sequence	6-18
Replaying a sequence.....	6-20
Headland function and color display screen.....	6-24
Deleting a sequence with color display.....	6-27
Automated headland functions	6-28
Headland turn sequence	6-28
Universal Symbols.....	6-29
Recording a sequence	6-30
Replaying a sequence.....	6-34
Saving a sequence	6-37
Edit a sequence	6-40
Recalling a sequence.....	6-44
Deleting a sequence.....	6-48

TRANSMISSION

CVT transmission operation	6-51
Transmission operation.....	6-51
Anti jack knife.....	6-52
Stationary control	6-53
Engine speed control	6-54
Shuttle lever	6-55
Transmission controls	6-57
Drive pedal	6-60
Programming maximum speed.....	6-61
Transmission display	6-63
Manual mode	6-65
Automatic mode	6-66
Cruise mode	6-68
PTO mode	6-71
Speed matching	6-71
Fault codes	6-71

REAR POWER TAKE-OFF (PTO)

Power Take-Off (PTO) operating precautions	6-72
Changing the PTO output shaft	6-73
Attaching PTO driven equipment.....	6-74

PTO operation	6-75
PTO shiftable multi speed	6-79
Electronic PTO displays Electronic (where fitted)	6-81
External PTO controls	6-82
Auto PTO operation	6-84

FRONT POWER TAKE OFF

PTO operation	6-87
Auto PTO operation	6-89

REAR HITCH

Electronic Draft Control (EDC)	6-91
Settings and adjustments.....	6-95
Electronic Draft Control (EDC) operation.....	6-97
External hitch controls	6-102

FRONT HITCH

Settings and adjustments.....	6-104
Front hitch operation	6-107
Auxiliary front couplers (where fitted).....	6-113
External hitch controls	6-115
Front hitch management	6-116

ELECTRO-HYDRAULIC REMOTE CONTROL VALVES (where fitted)

Remote control valves.....	6-121
Settings and adjustments.....	6-128
Valve priority	6-133
Programming tractor functions	6-134
Connecting remote cylinders	6-141
Operating with remote valves	6-143
Joystick operation with a front loader.....	6-145
Mid mount remote valves.....	6-152
External EHR controls	6-153
EHR implement control setting	6-154
Transmission rear axle and hydraulic system oil level	6-158

HYDRAULIC POWER BEYOND PORT

Power beyond circuit	6-160
Power beyond valve - Static description	6-160
ISO Power beyond couplings.....	6-162

THREE POINT HITCH

Attaching three-point hitch equipment.....	6-163
Lift rod adjustment.....	6-165
Top link adjustment	6-168
Lower links	6-170
Quick hitch.....	6-171

Lower links	6-173
-------------------	-------

DRAWBARS AND TOWING ATTACHMENTS

Drawbars and towing attachments	6-177
Swinging drawbar	6-179
Automatic pickup hitch	6-182
Automatic pickup hitch	6-186
Rear trailer hitches	6-190

TRAILER BRAKING SYSTEMS

Air-operated trailer brakes	6-197
Air-operated trailer brakes (Italian type)	6-200
Trailer brake bias control	6-201
Trailer brakes air operated	6-201
Hydraulic trailer brakes	6-202
Hydraulic trailer brakes (Italian type)	6-203

WHEEL TRACK ADJUSTMENT

Front wheel track adjustment	6-204
Front wheel alignment	6-209
Steering stops	6-210
Front axle oscillation stops	6-211
Front wheel fenders	6-212
Rear wheel track adjustment	6-214
Flange type axle (where fitted)	6-214
Bar type axle (where fitted)	6-218
Dual rear wheels (where fitted)	6-225

BALLASTING AND TIRES

Ballasting and tires	6-228
Iron weights (where fitted)	6-231
Liquid ballast	6-233
Tire inflation	6-235
Tire pressures and permissible loads	6-236

AUXILIARY POWER CONNECTIONS

Diagnostic socket	6-238
Trailer electrical socket	6-239
Electrical power connectors	6-240
Internal power connectors	6-240
External power connectors	6-242
ISO bus classes	6-244
ISO bus functionality	6-246

7 MAINTENANCE

GENERAL INFORMATION

Introduction	7-1
--------------------	-----

Fuel requirement - Diesel fuel	7-2
Fuel - Storage, handling and transport	7-2
Biodiesel fuel	7-3
Engine oil change	7-5
Protective devices	7-6
Tractor jacking points	7-8
Lubricants and coolants	7-9
General specifications	7-10
Capacities	7-11
Organic Acid Technology (OAT) coolant	7-12

MAINTENANCE CHART

Maintenance chart	7-13
-------------------------	------

WHEN THE WARNING LAMP LIGHTS

Engine air cleaner	7-15
Fuel system water separator	7-16
Check the brake fluid level	7-17

EVERY 10 HOURS OR EACH DAY

Coolant level check	7-18
Engine oil level	7-19
Remote valve collection bottle	7-19
Windscreen wash wipe	7-20
Air reservoir	7-20

FIRST 50 HOURS

Service operations	7-21
--------------------------	------

EVERY 50 HOURS

Cab air filters	7-22
Selective Catalytic Reduction (SCR) system	7-24
Clean the coolers	7-25
Grease fittings	7-26
Check the front and the rear wheel nuts	7-33
Tire inflation pressures	7-33

EVERY 100 HOURS

Drive belts - check	7-34
Drive belts - check	7-35

EVERY 300 HOURS

Battery fluid level	7-36
Transmission oil level	7-38
Handbrake	7-39
Front PTO oil level	7-39
Front axle oil - Four-Wheel Drive (4WD)	7-40

EVERY 600 HOURS

Change engine oil and filter	7-41
Change the first stage fuel filter and the fuel filter element.....	7-43
Engine air precleaner.....	7-45
Hydraulic return and charge pump filters.....	7-46
Check the air intake system	7-47
Transmission	7-48
DEF/AdBlue® in-line filter	7-48

EVERY 1200 HOURS OR ANNUALLY

Cab air filters	7-49
Change the hydraulic suction pump oil filter.....	7-50
Differential and planetary oil.....	7-51
Front hubs - 4WD.....	7-52
Front PTO change oil.....	7-52
Grease the rear axle shaft bearing	7-53

EVERY 1200 HOURS OR EVERY 2 YEARS

DEF/AdBlue® filter	7-54
Change the engine air cleaner inner element	7-55
Engine tappet valve clearance	7-56
Air-operated trailer brakes.....	7-56
Poly (V) belts change.....	7-57
Change transmission oil	7-59

EVERY 2 YEARS

Change the air conditioning receiver drier.....	7-60
---	------

EVERY 1800 HOURS OR EVERY 2 YEARS

Engine - breather filter replacement.....	7-61
---	------

EVERY 3600 HOURS OR EVERY 2 YEARS

DEF/AdBlue® filter	7-61
--------------------------	------

EVERY 3600 HOURS OR EVERY 4 YEARS

Change the engine coolant fluid.....	7-62
--------------------------------------	------

GENERAL MAINTENANCE

Cleaning the tractor.....	7-66
Fuel system water separator	7-68
Bleeding the fuel system	7-68
Hydraulic system hoses	7-69
Brake Pedal	7-69
Cab suspension, if equipped	7-70
Adjust the automatic pickup hitch	7-71
Headlight adjustment	7-72

Work light adjustment	7-72
Bulb replacement	7-73
Fuses and relays	7-76
Protecting the electronic and electrical systems during battery charging or welding ..	7-84
Battery - replacement.....	7-85

STORAGE

Tractor storage	7-86
Removing the machine from storage.....	7-86

8 TROUBLESHOOTING

FAULT CODE RESOLUTION

Introduction	8-1
--------------------	-----

ALARM(S)

Fault codes and symbols	8-2
-------------------------------	-----

SYMPTOM(S)

Engine	8-4
Transmission	8-5
Hydraulics	8-6
Three-point hitch	8-6
Brakes	8-7
Cab	8-7
Electrical system	8-8

9 SPECIFICATIONS

General dimensions	9-1
Frame - General specification	9-1
Capacities	9-4
Transmission - Capacity	9-4
Front axle system - Capacity	9-4
Engine	9-5
Transmission	9-6
Rear Power Take-Off (PTO)	9-7
Front Power Take-Off (PTO).....	9-8
Hydraulic system	9-9
Three-point hitch	9-11
Remote control valves	9-11
Three-point hitch	9-11
Brakes	9-12
Steering.....	9-12
Electrical equipment.....	9-13
Minimum hardware tightening torques	9-14

10 ACCESSORIES

Radio (where fitted).....	10-1
External rear view mirrors	10-1

Auxiliary head lights and signature lights.....	10-3
Rotating beacon	10-3
Front-end loader fixation points	10-4

11 FORMS AND DECLARATIONS

CE Declaration of conformity	11-1
Service record 1st 50 hour, Owner copy	11-3
Service record 1st 50 hour, Dealer copy	11-5

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	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 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	Hp
	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		

1 - GENERAL INFORMATION

Typical applications	Metric unit		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	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	l	cubic inch	in³
	liter	l	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 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 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