snorkel

SR9244
SR1054



OPERATOR'S and MAINTENANCE MANUAL

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Table of contents

1. GENERAL INFORMATION 9
1.1 PRELIMINARY INFORMATION 10
1.1.1 DOCUMENT IDENTIFICATION 10
1.1.2 SYMBOLS USED IN THE MANUAL 10
1.1.3 MANUAL OWNERSHIP 10
1.1.4 VALIDITY 10
1.1.5 THE IMPORTANCE OF THE MANUAL 11
1.1.6 RECIPIENTS OF THE MANUAL 11
1.1.7 SAFE-KEEPING OF THE MANUAL 11
1.1.8 TERMINOLOGY USED 11
1.2 THE MANUFACTURER 12
1.3 THE DEALER 12
1.4 CE CERTIFICATION 13
1.5 OPERATOR TRAINING 13
1.5.1 DRIVING ABILITY 13
1.6 MACHINE IDENTIFICATION 13
1.6.1 TECHNICAL NAME 13
1.6.2 IDENTIFICATION PLATE 14
1.7 NOISE 15
1.8 VIBRATION 15
1.9 TECHNICAL SPECIFICATIONS 16
1.9.1 MACHINE MASS 16
1.9.2 MACHINE SIZE 17
1.9.3 BRAKING SYSTEMS 18
1.9.4 TRANSMISSION 18
1.9.5 STEERING 18
1.9.6 HYDRAULIC SERVICES SYSTEM 19
1.9.7 DIFFERENTIAL AXLES 19
1.9.8 DIESEL ENGINE 19
1.9.9 COOLING SYSTEM 19
1.9.10 TIRES 19
1.9.11 DRIVER CABIN 20
1.10 REGULATORY REFERENCES 21

MidWestTech | Snorkel SR9244, SR1054 Telehandler Operator's and Maintenance Ma... Order the manual at mid-west-tech.com >

2 SAFETY 23
2.1 INTENDED USE OF THE MACHINE 24
2.2 UNINTENDED USE 24
2.3 LIMITS OF USE 25
2.4 GENERAL REGULATIONS FOR USE 26
2.5 WORKING ON SITE 26
2.6 MANEUVERING ON UNEVEN GROUND 28
2.7 MANEUVERING ON A TRANSVERSAL SLOPE 28
2.8 MANEUVERING ON A LONGITUDINAL SLOPE 29
2.9 IN CASE OF TIPPING OVER 29
2.10 PREPARING TO DRIVE 30
2.10.1 ACCESS TO THE DRIVER CABIN 30
2.10.2 ADJUSTING THE DRIVER'S SEAT 31
2.10.3 TILTING THE SEAT 32
2.10.4 SAFETY BELTS 32
2.10.5 ADJUSTING THE STEERING WHEEL 33
2.11 OPENING THE BACK WINDOW 33
2.12 HEATING AND AIR CONDITIONING 33
2.13 SAFETY DECALS 35
2.14 LOAD CHART 37
2.14.1 STABILITY CONDITIONS 38
2.15 ANTI-TIP SYSTEM 39
2.16 TRANSPORTING THE MACHINE 40
2.16.1 LOADING AND UNLOADING WITH RAMPS 40
2.16.2 LOADING AND UNLOADING WITH A CRANE 40
2.17 GENERAL SAFETY WARNINGS 41
2.18 CHECKING ENGINE START UP 42
2.19 MOVEMENT IN REVERSE DRIVE 43
2.20 REFUELLING THE MACHINE 43
2.21 FUEL QUALITY (DIESEL) 44
2.22 STORING THE MACHINE 44
2.23 MACHINE DEMOLITION 44
2.24 USING THE MACHINE 45
2.24.1 DRIVING ABILITY 45

MidWestTech | Snorkel SR9244, SR1054 Telehandler Operator's and Maintenance Ma... Order the manual at mid-west-tech.com >

2.24.2 RESPONSIBLE USE 45
2.24.3 RESPONSIBLE DRIVING 45
2.25 ROAD CIRCULATION 46
2.25.1 BEFORE MOVING 46
2.25.2 FORWARD DRIVE 46
2.25.3 REVERSE DRIVE 46
2.25.4 PARKING 47
3 CONTROLS AND GENERAL REGULATIONS 49
3.1 DESCRIPTION OF THE CONTROLS 50
3.1.1 CONTROL LEVERS ON THE STEERING COLUMN 50
3.1.1.1 LEFT LEVER OF THE STEERING WHEEL (STALK) 50
3.1.1.2 LEVER ON THE RIGHT OF THE STEERING WHEEL 50
3.2 DESCRIPTION OF THE RIGHT FRONT DASHBOARD 52
3.2.1 ON BOARD COMPUTER 52
3.2.1.1 MAIN PAGE 54
3.2.1.2 MACHINE'S FORWARD MOVEMENT AND STREET MODE 55
3.2.1.3 BOOM LIFTED MODE 57
3.2.1.4 AGRI MODE (OPTIONAL) 58
3.2.1.5 BUCKET MODE 59
3.2.1.6 MENU PAGE 60
3.2.1.7 LANGUAGE PAGE 61
3.2.1.8 CONFIGURATION PAGE 61
3.2.1.9 SOFTWARE VERSION PAGE 62
3.2.1.10 ENGINE PAGE 63
3.2.1.11 SCR PARAMETERS PAGE 64
3.2.1.12 DIESEL REGENERATION PAGE 65
3.2.1.13 IAS – IDLE AUTO STOP PAGE (OPTIONAL) 68
3.2.1.14 ENGINE ERRORS PAGE 70
3.2.1.15 VEHICLE ERRORS PAGE 71
3.2.1.16 INPUTS PAGE 72
3.2.1.17 FNR MODE PAGE 74
3.2.1.18 CONSTANT FLOW 75
3.2.1.19 SAFETY WARNINGS 76
3.2.2 RIGHT FRONT DASHBOARD 82

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2.18 CHECKING ENGINE START UP

Before starting the engine, make sure the connection to the battery has been enabled using the battery switch in the front left part of the machine. The F-N-R machine movement (viewed on the display on the front right dashboard) can be controlled with the control lever on the left side of the steering wheel or with the joystick if enabled.





The engine will not start if the drive control lever or the button on the joystick are not in the "N" neutral position shown on the display (if the control mode from the joystick has been selected).
The machine can distinguish whether the operator is sitting in the driver's seat or not through a sensor inside the driver's seat. In fact, if the operator leaves the driver's seat, the machine will automatically switch to neutral drive and engage the hydrostatic braking and a continuous acoustic signal is emitted until the operator returns to the driver's seat and the control lever is set back into "N" neutral or the parking brake is engaged.
For safety purposes it is important to sit correctly during transfers especially when performed at high speed, although the seatbelts are fastened. Despite the timed sensor (3 second intervention delay), there is a risk the machine will brake gradually and inadvertently.

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5.11 MAINTENANCE SCHEDULE

The data sheet below lists all the necessary maintenance operations and the frequency required to maintain the efficiency of the machine.

		FREQUENCY		FREQUENCY OF SCHEDULED MAINTENANCE					
GROUP	TYPE OF VERIFICATION	DAILY	WEEKLY	FIRST INTERVENTION (250 HOURS)	500 HOURS	1000 HOURS	1500 HOURS	2000 HOURS	3000 HOURS
DIESEL ENGINE	Check the lubricant oil level (top-up if necessary)	X							
	Check the coolant liquid level (top-up if necessary)	X		X					
	Visually inspect the engine seal	X							
	Drain the water from the fuel pre-filter		X						
	Check the condition and tension of the belt			X		X			
	Change the engine oil [1*]			X	X				
	Verify and if necessary replace the fuel pre-filter*				X				
	Replace the engine oil filter/s cartridge*			X	X				
	Replace the fuel filter/s*					X			
	Replace the fuel pre-filter*					X			
	Replace the auxiliary part belt/s*								X
	Replace the coolant liquid [2*]					X			
	Verify the efficiency of the pre and post heating system *3					X			
	Verify the integrity of the engine air intake pipes*				X				
	Verify the condition of the battery and the cable connections*					X			
	Verify the tightness of the complete exhaust gas system and the post-treatment components [3]	X							
	Verify the engine monitoring*					X			
	Verify the engine supports*					X			
RADIATOR	Clean the radiator		X						
	Clean the closing nets	X							

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of the rated capacity, privileging a slow charge, for about 10 hours or until the absorbed current is not reduced to a few mA and the voltage is about 13.5 V. It is recommended not to provide higher currents or a fast charge that could speed up the sulphation process to the plates.
The charging operations and battery maintenance can be carried out calmly, in accordance with the basic safety standards, using fully automatic battery chargers, which can provide current according to the nominal capacity and start full charge maintenance once the charging process is completed.

Maintenance

If a period of downtime is foreseen and the battery is not to be used for a long time, its efficiency and charge are kept unchanged over time by connecting it to a charge controller without necessarily disassembling it from the machine. The charge is maintained by supplying the battery with a constant voltage current of a few milliamps for the entire period of inactivity.

Start-up using an external battery

If the machine must be started with an external battery pay special attention so risks that may be major might be encountered. Do not proceed if you are not fully aware of the activity to be carried out.
Use only batteries of the same voltage and capacity (or greater capacity).
STRICTLY avoid accidental contact between opposite poles when connecting the cables in order to prevent sparks, priming of flames or explosions.
The cables must be suitable for the purpose and not worn so as to minimise the resistance.
Proceed as follows:

1. "Donor" machine engine off
2. Uncover the plastic protective parts of the poles of both batteries (the "donor" and "receiver")
3. Interconnect the positive poles of the two batteries (+ with + // with the red cable)
4. Interconnect the negative poles of the two batteries (- with - // with the black cable)
5. Start-up the engine of the "donor" machine and allow it to reach a medium/high speed
6. Start-up the engine of the "receiving" machine
7. With the "receiving" machine started up, first disconnect the negative cable (black/ - with -) and then the positive (red/ + with +), first disconnecting the pole of the "donor" battery and then that of the "receiving" battery for both cables.
8. Replace the plastic protective parts on the poles of both batteries

Replacement

If the battery must be replaced due to a malfunction or end of service life, it is advisable to contact an authorised workshop.
If you decide to do so autonomously, it is recommended to follow a few simple tips:

- Make sure the control panel and no accessory is on
- Remove the cover as described in the "inspection" part.
- Remove the plastic protective parts of the poles
- First disconnect the negative terminal and then the positive terminal
- Release the retaining belt, lift the battery (the battery weighs over 30 kg so it is recommended to have at least two people do this) and remove it
- Clean the battery compartment from any leaves, dirt or oxide

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4.5 LEVELLING THE MACHINE



Handling loads and namely lifting or other operations that need to be conducted with the boom partially or completely extended are particularly dangerous if they are carried out with the machine NOT positioned on flat ground (check the flatness with the level in the cabin on the right behind the joystick).

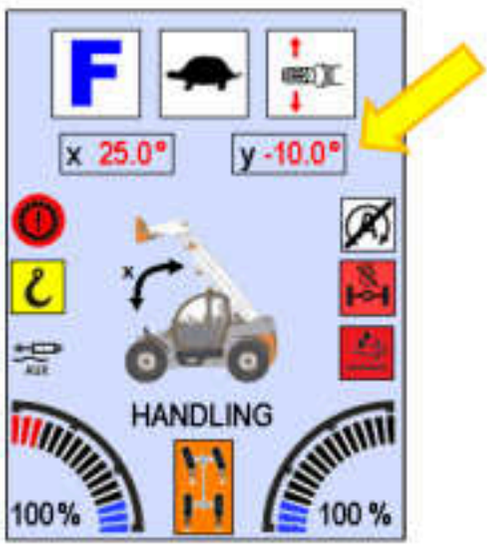




To level the machine:

1. press the button on the top of the lever on the left of the steering wheel:
2. keeping the above button pressed, operate on button 5 of the second right side dashboard;
3. press the accelerator pedal to modulate levelling movement speed.

An hydraulic cylinder connected to the chassis lowers or lifts the chassis according to the command given.



The box of the main screen indicates the side inclination of the machine.
This inclination is detected and measured by specific position sensors.
These sensors have a working range for inclinations between +5° and -5°, beyond these limits the box indicated disappears.
The machine is levelled when the angle value is near **0.**



The machine can only be levelled with the boom down, the engine running in neutral "N" and someone in the driver seat. After completing operations related to moving the equipment up and down, the levelling must be manually reset by the operator before starting other activities; use the bubble level to set back the machine to its normal operating conditions.

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2.10.3 TILTING THE SEAT



Press the lever (G) completely to tilt the backrest forward to access the rear compartment where the accessories supplied are housed together with the instruction booklet of the machine and the various equipment installed. The side arm rests can be tilted freely.

The windscreen wiper water tank (H) is found on the left side of the seat (with a level indicator).

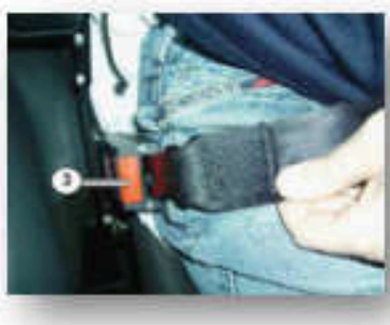


Attention! The seat is fitted with a sensor that is activated when the operator sits and enables the engine to start.

2.10.4 SAFETY BELTS



In case of an accident, the properly fastened safety belt offers good protection. The risk of injury is reduced and the chances of survival are increased.
Adjust the driver's seat before fastening the safety belt. Hold the tongue and slowly pull the belt over the pelvis. Insert the tongue (1) into the buckle (2) of the seat until you hear it click. Try to pull the safety belt to make sure it is engaged in the buckle.
Adjust the belt by pulling the flap of the belt with your left hand to tighten it across your body. If the belt is too tight, unhook it and lengthen the left side accordingly and repeat the coupling operation.
Release belt by pressing the red button (3). The tongue is expelled.



The belt is adjusted correctly when it is positioned on your pelvis without causing particular discomfort while driving. Using the belt increases the level of operator safety and reduces the risk of accidents. The driver cabin has been designed to support the weight of the machine in case of tipping over (ROPS). Therefore, the safety belt must always be fastened to avoid being thrown out of the cabin and/or being crushed in case of possible tipping over.

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