snorkel

SR1442
SR1745



CE

OPERATOR'S and MAINTENANCE MANUAL

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Stage IV/Tier 4F and Stage V Deutz Engine
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3.5 PEDALS



The pedal (1) is the normal vehicle-type of accelerator. It is connected to the engine by an electric cable with electronic control. Push the pedal to increase engine rpm and release it to reduce speed.
The pedal (2) is the normal vehicle-type of brake. It is hydraulic type and acts on the brake discs inside the axle. Press the pedal to decrease machine speed.
The pedals must always be ready to be actuated with no hindrance. The pedal area must be free from objects that could end up under the pedals. No mats or other floor covering must be used.
All pedals must be able to return to their original position with no hindrance.
When the machine is moving at fast speed, pushing the brake pedal (2) completely is dangerous for yourself and the machine, in fact:



- *Pressing the pedal more than necessary can cause sudden braking*
- *Stopping the machine suddenly can cause the load being transported to fall*
- *Sudden braking can cause physical trauma caused by the safety belt that should be fastened.*

Combined inching function

The machine is equipped with an inching function, which allows precision handling operations to be performed. Use this feature by pressing the brake and accelerator pedal simultaneously. Briefly releasing only the brake pedal, the machine moves in a slowly and gradually. The inching function can be used by pressing the brake pedal slightly; if it is pressed completely, the machine stops.

Service brake

Push pedal (2) to slow down or stop the machine; the action is transmitted to the servo brake valve which acts on the brake discs inside the front differential axle. As an assisted servo brake, the pressure applied on the pedal does not change the braking force very much. Even if pressed slightly, it brakes immediately. The active parts of the parking brake systems are built into the front axle; the service brake also only acts on the front axle and not on the rear axle. It consists in disks in oil bath, a system that guarantees long-lasting efficiency, as well as being maintenance-free It is hydraulically operated. By pushing the pedal, the brake valve box moves sending oil towards the brake box, pressing the brake discs together.
When the pedal is not pressed, the brakes are free. With the machine off, the parking brake is automatically engaged. In fact, if the vehicle is with the Diesel engine off but with the ignition key in position 1, a pressure accumulator in the system guarantees a number of brakes until the relevant low pressure LED on the second right side dashboard lights up. At this point, if the Diesel engine is not reactivated or if there is a fault/failure in the hydraulic system, the brakes can no longer guarantee that the machine will be stopped correctly. The same applies to the circuit of the parking brake, where a pressure accumulator guarantees a minimum number of brake releases until the relevant low pressure on the second right side dashboard lights up. The system guarantees that in case of a breakdown or fault, the vehicle moves with a Diesel engine switched off and ignition key in position 1.

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4.7 OUTRIGGERS

The front outriggers can be used to enhance stability and capacity or else to level the machine. They are activated by two buttons on the side panel (giving simultaneous consent with the button on top of the left lever) and only with the boom below 30 degrees.
With the outriggers down, see the relative load chart (different than the one with wheels only).



4.8 ACCESSORY COUPLING AND RELEASE

The attachment methods described below apply to all approved accessories, compatible with the machine.

- Slowly approach the accessory with the machine, tilting forwards slightly the accessory carrier.



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		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
GREASING SYSTEM	Lubricate joints		X						
	Lubricate the boom chains [3]		X						
	Boom surfaces in contact with the runners		X						
	Lubricate the cross and transmission shafts		X						
AIR CONDITIONING	Recharging the air conditioning*								X
	Replace the cabin air filter				X				
	Replacing the air conditioning belt*								X
	Replacing the evaporator/condenser filter*								X
** AdBlue®(DEF)	Filtering cartridge for AdBlue® (DEF) supply pump				x				

[1] to be performed annually, even if the expected operating hours are not reached

[2] or in any case every 2 years

[3] if applicable

[4] refer to the specific paragraph

* to be performed by qualified personnel only

**** Only 74,4-100kW engines**

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4.5 LEVELING THE MACHINE

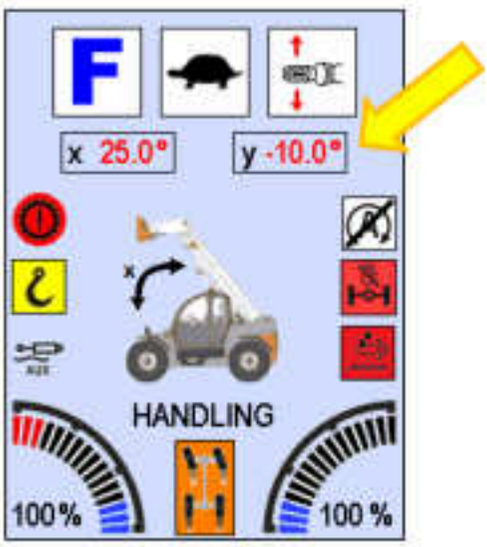
Handling loads and namely lifting or other operations that need to be conducted with the boom partially or completely extended are particularly dangerous if they are carried out with the machine NOT positioned on flat ground (check the flatness with the level in the cabin on the right behind the joystick and with the electronic angle sensor that shows the value of the side angle of the machine respecting the ground in the main page display).



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).

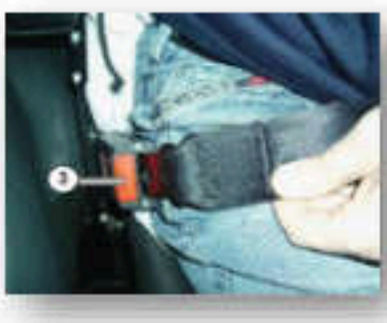


Attention! The seat is fitted with a sensor that is activated when the operator sits and enables the engine to start.

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.

Never try to climb down the machine while it is tipping over. You are safe inside the cabin; the steel structure has been sized to protect the operator inside. Only exit the machine when it is stationary.

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