snorkel

SR5719



OPERATOR'S and MAINTENANCE MANUAL

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2.4 GENERAL REGULATIONS FOR USE



When transporting a load, keep the accessory at a maximum height of 300 mm from the ground.
Where possible avoid winding roads, otherwise, move cautiously and very slowly.
Respect the limits imposed by the load diagram referred to the accessory being used. If a different accessory from that delivered with the machine is purchased at a later time, please contact the Manufacturer to obtain the correct load diagram.
If the material to be moved is on a supporting base, before lifting it with the material, ensure that it is in good condition and can withstand the weight to be lifted.

Never lift a strapped load with the forks; use the specific accessory. The edges of the forks could in fact cut the lifting cables due to the weight, thereby causing the loss of material. In any case, never lift a load with only one arm of the fork.
When transporting a suspended load from a rope, do not allow it to swing excessively, otherwise, stop immediately and wait for the load to stabilise before proceeding.

When transporting a load with a mobile centre of gravity, such as a liquid, avoid sudden acceleration and braking. Be very careful when the route has a slight gradient.
Immediately after use, place the accessory in a horizontal position and if it seems unstable, prop it with suitable and safe supports to make it stable.
It is forbidden to operate the machine under the influence of alcohol and/or drugs and/or medicine, which alters the physical and mental condition.

2.5 WORKING ON SITE



Operate in good physical and mental conditions.
It is forbidden to operate the machine under the influence of alcohol and/or drugs.
It is mandatory to wear a safety belt.
You must wear ear plugs or hearing protection headphones in case of excessive noise. A safety helmet must be worn in case of the risk of objects falling from above, even if the machine's driver cabin is designed to protect against such a risk.
Keep the machine as far as possible from the edges of excavations or the road and always examine the conformation and the condition of the work area in relation to the dimensions of the machine in the various configurations.
Identify the best route toward the work area.
Ground capacity characteristics:

- Turned soils, soft ground, land filled ground — 0-1 kg/cm^2
- Average particle size sand — 2-2.5 kg/cm^2
- Gravel — 3-4 kg/cm^2
- Clay soil — 2-4 kg/cm^2
- Rocky ground — 10-15 kg/cm^2

The characteristics provided above are approximate and can vary based on the ground and humidity conditions, environmental temperatures and meteorological conditions.

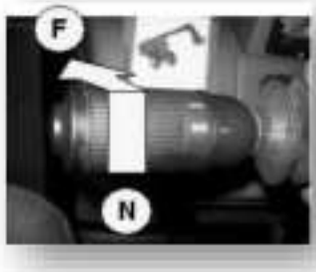
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3.1 DESCRIPTION OF THE CONTROLS

3.1.1 CONTROL LEVERS ON THE STEERING COLUMN

3.1.1.1 LEFT LEVER OF THE STEERING WHEEL (STALK)

Lever operation is only enabled if you have selected from the display to use the FNR function from the lever and not from the joystick.
To enable the forward drive of the machine (F), pull the lever towards the steering wheel and move it forward. The letter "F" will appear on the display on the front right dashboard.



To enable the reverse drive of the machine (R), pull the lever towards the steering wheel and move it back. The letter "R" will appear on the display on the front right dashboard.
Enable the neutral gear (N) by moving the lever to the central position.
The lever controls do not operate when:

- the parking brake is engaged
- the operator is not sitting in the driver's seat.
- The outriggers are complete extended (if not completely lifted, a message appears on the display).



For the function of the button located at the top of the lever, see the "Levelling the Machine" paragraph*.

In the guide below the left lever of the steering wheel is referred to as the "stalk".



The lever can be used solely if the steering mode is with the front wheels only It is dangerous to change the driving direction when the machine is moving at high speed; the machine suddenly inverts the driving direction; before changing direction, allow the machine to reduce speed to a minimum. When reverse drive is selected an acoustic signal will sound to indicate the risk of danger to any people in the maneuvring area. Attention! If the operator leaves the driver's seat, the neutral gear "N" is automatically engaged after 3 seconds. Operation of the lever is disabled if the "concentric" and/or "crab" steering mode is selected.

3.1.1.2 LEVER ON THE RIGHT OF THE STEERING WHEEL

Lights control

Rotate the lever by holding it from the knurled part until the desired symbol of the rotating part is aligned with the horizontal line of the fixed part. 3 positions are possible:

- Position 0 = lights off
- Position 1 = parking lights on
- Position 2 = low beam lights on



High beam lights

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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. 51.7 kW TIER IV FINAL Yanmar engine

GROUP	TYPE OF VERIFICATION	CHECK DAILY	FREQUENCY OF SCHEDULED MAINTENANCE						
			EVERY 50 h	EVERY 250 h	EVERY 500 h	EVERY 1000 h	EVERY 1500 h	EVERY 2000 h	EVERY 3000 h
RADIATOR	Check and top up the cooling liquid	X							
	Check and clean the radiator	X		X					
	Clean the closing nets	X		X					
	Check and tension the cooling fan belt		X 1st time	X 2nd and subsequent times					
	Change the cooling liquid[2]							X	
HEAD ENGINE	Adjust the exhaust-intake valves clearance (if required)					X			
ELECTRICAL COMPONENTS	Check the indicators	X							
	Check the battery		X						
ENGINE OIL	Check the engine oil level	X							
	Change the oil and filter[1]		X 1st time		X 2nd and subsequent times				
EMISSION CONTROL SYSTEM									
	Inspect, clean and check the EGR valve								X
	Clean the main EGR valve								X
	Clean the EGR radiator (clean the water/air pipes)								X
	Inspect the engine casing ventilation system							X	
	Check and clean the DPF fine particulate matter filter								X
	Inspect and clean the intake throttle valve								x
FUEL	Check/repleace the fuel filter/water separator	X			X				
	Empty the water separator		X						
	Check and clean the injector								X
HOSES	Change the fuel and cooling system supply pipes[2]							X	
EXHAUST LINE	Check the integrity of the exhaust pipe		X						

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- *After maintenance on the fuel system, such as the emptying/replacing the water separator or fuel filter or other components of the feed system, prime the system by setting the ignition key to the ON position (to the first step) for 10-15 seconds. This allows the electric pump to prime the system. Do not use the starter motor to run the engine with the purpose of priming the system. This might lead to overheating of the starter motor and damage the coils, the pinion and/or the crown gear.*

9. Check for fuel leaks

5.12.7 REPLACING THE FILTER ELEMENT OF THE PRE-FILTER

The water separator (or pre-filter) filters impurities such as water, dust or dirt that frequently penetrate into the engine. Replace the fuel filter element every 500 hours of operation.

Proceed as follows:

1. Place a suitable container under the water separator to collect water and contaminants.
2. Close the fuel valve (4).
3. Open the drain valve (5) in the lower part of the separator. Remove any water there may be inside.
4. Turn the sump (2) to the left and remove it. If in place, disconnect the wire of the sump sensor before removing the sump.
5. Remove the floating ring (3) of the sump. Place the contaminants in the container and dispose of them appropriately.
6. Clean the inside of the sump (2).
7. Install the new element on the body (7).
8. Place the floating ring (3) in the sump (2).
9. Check the conditions of the sealing ring (8). Replace, if necessary.







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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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