snorkel

SR5719



CE

OPERATOR'S and MAINTENANCE MANUAL

Stage IIIA
Replaces September 2022

Part Number 159-0065-001
November 2022

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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:

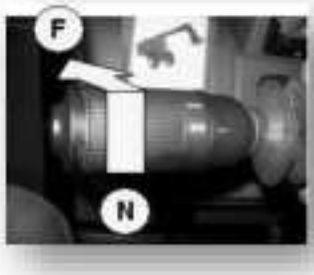
- Turned soils, soft ground, land filled ground — 0-1 kg/cm^2
- Average particle size sand — 2-2.5 kg/cm^2
- Gravel — 3-4 kg/cm^2
- Clay soil — 2-4 kg/cm^2
- Rocky ground — 10-15 kg/cm^2

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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)



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.
Engage 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 not fully lifted*



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 maneuvering 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.



* If in place or if the function is in place.

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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. 52 kW stage IIIA Yanmar engine

GROUP	TYPE OF VERIFICATION	CHECK DAILY	FREQUENCY OF SCHEDULED MAINTENANCE						
			EVERY 50 HOURS	EVERY 250 HOURS	EVERY 500 HOURS	EVERY 1000 HOURS	EVERY 1500 HOURS	EVERY 2000 HOURS	EVERY 3000 HOURS
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	Adjust the play of the discharge-intake valves (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 the turbocharger								X
	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								
SAVINGS	Check/release 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	
UNLOADING	Check the integrity of the exhaust pipe		X						

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5.30 INSPECTING, CHARGING AND REPLACING THE BATTERY

The battery is the part that allows the electrical system of the machine to operate. Its malfunction could create problems in the machine start-up and operating phases. It is housed inside the front compartment shown in the figure.

Inspection



The battery can be inspected by removing the cover from the battery compartment on the front of the machine. It can be opened by loosening the four screws.
It is good practice to carry out a periodic inspection (every 50 hours) to verify its external conditions.

Attention! *If charging or replacing or any other operation that requires the removal of contact terminals from the battery and its disconnection, ALWAYS wait at least 3 minutes from when the machine is switched off. This interval is required for the control unit to complete its next control cycle after the machine is switched off.*

Attention2! *If charging or replacing or any other operation that requires the removal of the battery from its compartment, bear in mind that the sulphuric acid contained within is poisonous and can cause burns. It is therefore a good precaution to work in a ventilated place, with appropriate protective equipment for the face and skin; do not light naked flames nearby and keep children away.*
Proceed as follows only if you are well aware of your actions.

Charging



If a battery is flat due to prolonged inactivity or due to malfunctions in the machine charging system or is drained accidentally, contact a specialised workshop or provide your own in accordance with minor precautions to safeguard your safety and the integrity of the battery. Operate in a ventilated area that is covered and away from sources of flame and sparks, remove the battery from the machine by loosening the clamps below the plastic protective parts (refer to the following operations to replace the battery) and connect the battery poles to the respective terminals of the charger, providing the battery a maximum current corresponding to 10% of the rated capacity, privileging a slow charge, for about 10 hours or until the absorbed current is not reduced to

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6. Tighten the breather valve ([6] figure 1) if it was loosened.
7. Open the fuel valve ([4] figure 1).
8. Prime the fuel system:
   - *After maintenance on the fuel system, for example emptying/replacement of the water separator or fuel filter or other component of the fuel system, the system needs to be primed by turning the ignition key to ON (1 click) for a period of 10-15 seconds. This allows the electric pump to prime the system. Do not use the starter motor to rotate the engine for the purpose of priming the system. This may cause the starter motor to overheat and damage the coils, the pinion and/or the gearwheel.*
9. Check for any fuel leaks

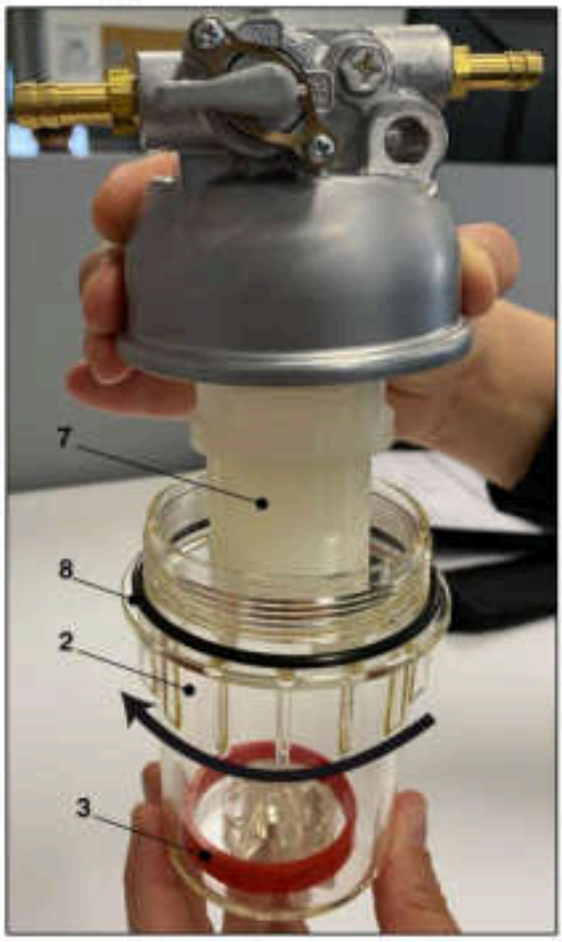
5.12.7 REPLACING THE WATER SEPARATOR ELEMENT

The water separator filters impurities such as water, dust or dirt, which frequently penetrate the engine. Replace the fuel filter element every 500 operating hours.

Follow the procedure below:

1. Place a suitable container under the water separator ([1] figure 1) to collect the water and contaminants.
2. Close the fuel valve ([4] figure 1).
3. Open the drain valve ([5] figure 1) in the bottom part of the separator. Drain any water therein.
4. Turn the sump ([2] figure 2) to the left and remove it. If present, disconnect the wire of the sump sensor before removing the sump.
5. Remove the floating ring ([3] figure 2) in the sump. Pour the contaminants into the container and dispose of them appropriately.
6. Clean the inside of the sump ([2] figure 2) .
7. Install the new element on the body ([7] figure 2)
8. Place the floating ring inside the sump ([3] figure 2).
9. Check the condition of the seal ring ([8] figure 2). Replace it if necessary.

Fig. 2



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