snorkel

SR626



CE

OPERATOR'S and MAINTENANCE MANUAL

Yanmar Stage IIIA
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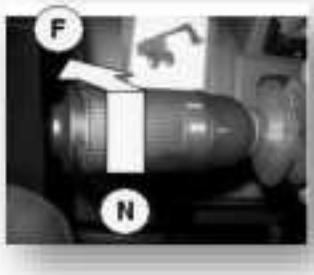
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3.1 DESCRIPTION OF THE CONTROLS

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 in all steering modes. 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.



* 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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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:

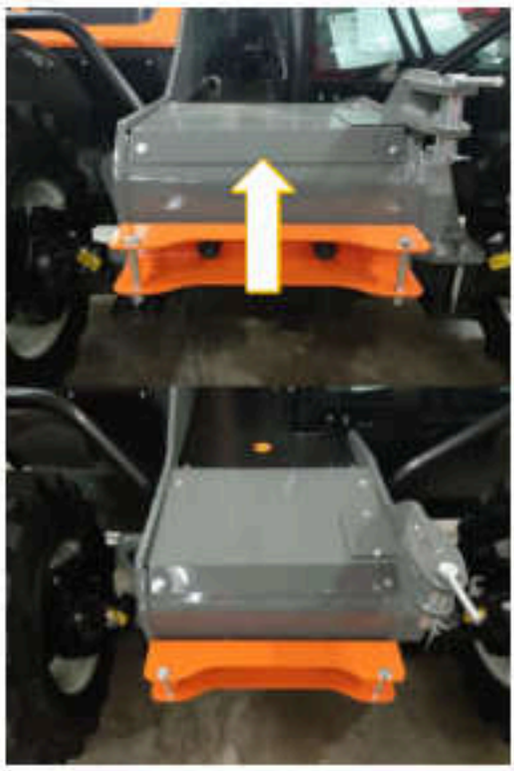
- Make sure the control panel and no accessory is on
- Remove the cover as described in the "inspection" part.
- Remove the plastic protective parts of the poles
- First disconnect the negative terminal and then the positive terminal
- Release the retaining belt, lift the battery (the battery weighs 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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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

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The load diagram of the machine coupled with the fork accessory is always found inside the cabin. All other load diagrams of the accessories compatible with the machine (authorised and/or supplied exclusively by Snorkel) are available in the "Accessories" appendix. If the accessories are purchased at a later time (from the dealer or directly from Snorkel), the user or the client must make sure to have the diagram relative to the accessory in question, otherwise this must be requested from the dealer or directly from the Manufacturer.

2.16 TRANSPORTING THE MACHINE

2.16.1 LOADING AND UNLOADING WITH RAMPS

The ramps must not be slippery and must be adequate to support the weight of the machine; this is indicated on the CE plate or in this manual.
Before loading or unloading make sure the handling area of the machine and that destined for deposit pose no danger.
All operators must maintain a safe distance to avoid being hit if the machine or some of its parts should fall.
Ask a person on the ground to monitor the maneuvers. Block the wheels of the transport vehicle with wedges.
Release the machine from all anchor points to the platform of the transport vehicle. Slowly move the machine, making sure the wheels are centred on the ramps.

2.16.2 LOADING AND UNLOADING WITH A CRANE



The crane must have a load capacity adequate to the weight [kg] of the machine; the weight is indicated on the CE plate or in this manual. The chains or cables must have a minimum unit capacity of 6000 kg; before using them, make sure they are in good condition. Attach the chains to the points on the machine indicated by the decals (code 720000013). Before starting the operations make sure the handling area of the machine and that destined for deposit pose no danger.
Slowly lift the machine as little as required and lower it to the ground as soon as possible.



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