snorkel

SR626



CE

OPERATOR'S and MAINTENANCE MANUAL

Yanmar Stage 5

Part Number 159-0003-001
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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 SR626 MODEL 16
1.9.2 MACHINE SIZE SR626 MODEL 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

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1.10 REGULATORY REFERENCES 21
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
2.20.1 FUEL QUALITY (DIESEL) 44
2.21 STORING THE MACHINE 44
2.22 MACHINE DEMOLITION 44
2.23 USING THE MACHINE 45

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2.23.1 DRIVING ABILITY 45
2.23.2 RESPONSIBLE USE 45
2.23.3 RESPONSIBLE DRIVING 45
2.24 ROAD CIRCULATION 46
2.24.1 BEFORE MOVING 46
2.24.2 FORWARD DRIVE 46
2.24.3 REVERSE DRIVE 47
2.24.4 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 AGRI MODE (OPTIONAL) 57
3.2.1.4 BUCKET MODE 58
3.2.1.5 MENÙ PAGE 59
3.2.1.6 LANGUAGE PAGE 60
3.2.1.7 CONFIGURATION PAGE 61
3.2.1.8 SOFTWARE VERSION PAGE 62
3.2.1.9 ENGINE PAGE 63
3.2.1.10 DIESEL REGENERATION PAGE 64
3.2.1.11 ENGINE ERRORS PAGE 67
3.2.1.12 VEHICLE ERRORS PAG 68
3.2.1.13 INPUTS PAGE 69
3.2.1.14 FNR MODE PAGE 71
3.2.1.15 FLUSSO COSTANTE (OPZIONALE) 72
3.2.1.16 WINCH ACTIVATION (OPTIONAL) 73
3.2.1.17 SAFETY WARNINGS 74
3.2.2 RIGHT FRONT DASHBOARD 77
3.2.3 FIRST RIGHT SIDE DASHBOARD 77

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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.

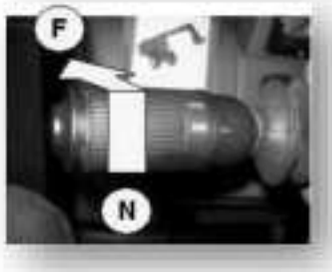
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3.1 DESCRIPTION OF THE CONTROLS

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 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.

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



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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 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, 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								
FUEL	Check/replace 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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5.14 CHECKING THE HYDRAULIC OIL LEVEL

Regularly check the level of hydraulic oil in the tank at the left rear part. You can see the indicator on the storage tank. The hydraulic oil must be topped up when the float is at the level indicated by the arrow. A LED in the cabin indicates this.



Attention: operating the machine with an amount of hydraulic oil below the limit value may seriously damage the machine and its components. Only use hydraulic oil recommended by the manufacturer.

5.15 CHANGING THE HYDRAULIC OIL

This operation must be carried out only by qualified personnel.

Proceed as follows to change the hydraulic oil:

1. Identify the drain plug under the tank near the rear axle (wheel behind the cabin) (1).
2. Place a container (with approximate capacity of 80 litres) under the drain plug (1).
3. Unscrew the oil tank filler plug (2).
4. Unscrew the drain plug and remove it (1).
5. Wait for all the oil to drain.
6. Screw back the drain plug (1) with a 15 Nm torque.
7. Remove and replace the immersed hydraulic oil filter in intake (3) (you must insert your hand into the tank through the hole where the oil filter is installed in return (4) after having removed it).
8. Fill the hydraulic oil tank according to the specifications.
9. Screw back the oil tank filler plug (2)

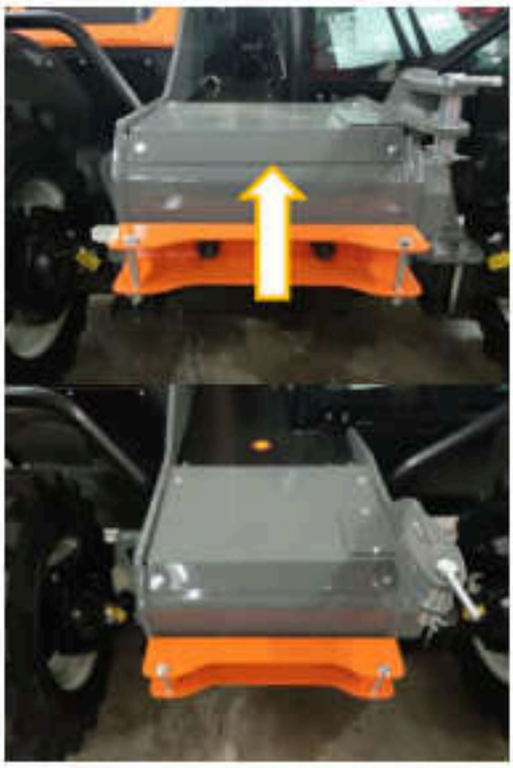
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5.30 INSPECTING, CHARGING AND REPLACING THE BATTERY

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 1 minute 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.*

Attention! *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 necessary 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



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