AMMANN YANMAR

YANMAR®

MINI-EXCAVATORS

OPERATION & MAINTENANCE MANUAL (GB)

Model: **B25V**



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SAFETY

⚠ WARNING

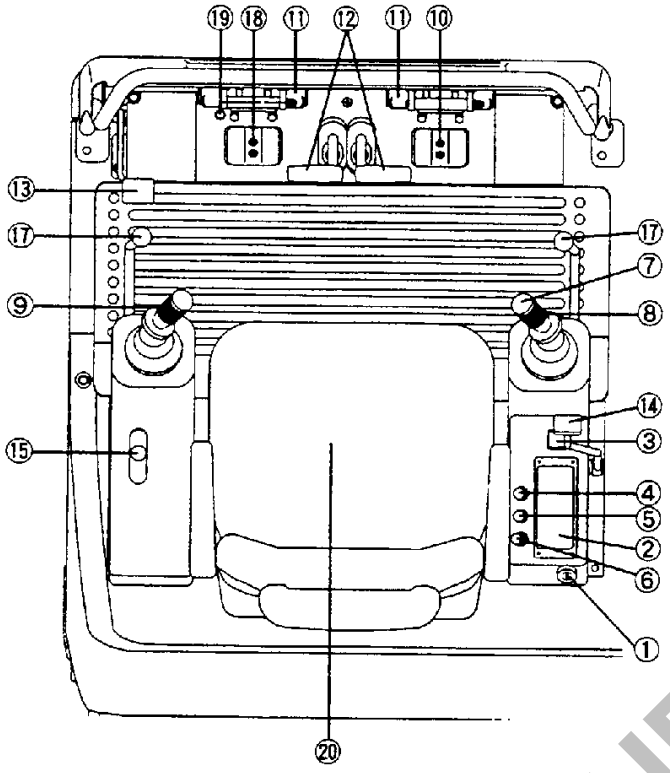
Never attempt to operate or service this machine until you have first read and understood all of the applicable Safety Instructions that are set forth in this Manual.

The failure to comply with all relevant Safety Instructions could result in bodily injury.

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9.2 Controls and switches



1) Starter switch
2) Monitor panel
3) light switch
4) Heater switch (cabin)
5) Wiper switch (cabin)
6) Cigarette lighter
7) Horn switch
8) Control lever (R)
9) Control lever (L)
10) Boom swing pedal
11) Pedal guard (foot rest)
12) Travel levers
13) 2-speed pedal
14) Blade lever
15) Accelerator lever
16)
17) Lock levers
18) P.T.O control pedal
19) P.T.O control pedal lock
20) Seat

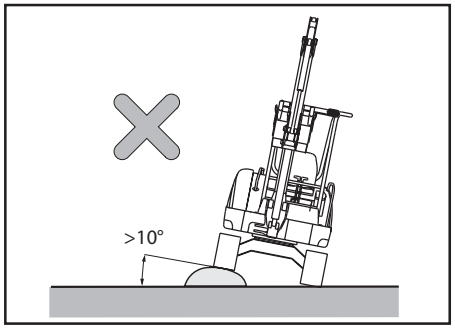
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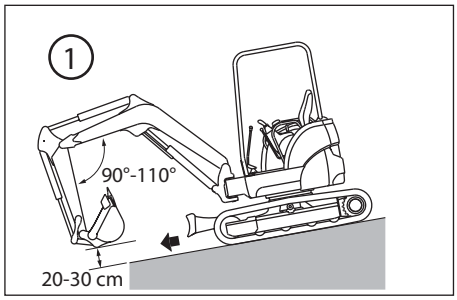
OPERATION

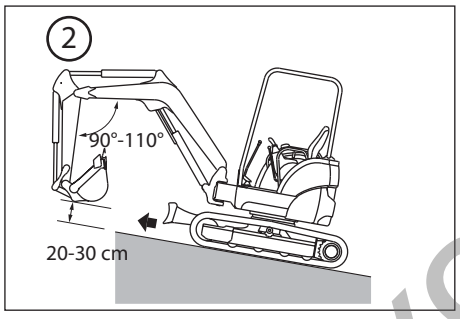
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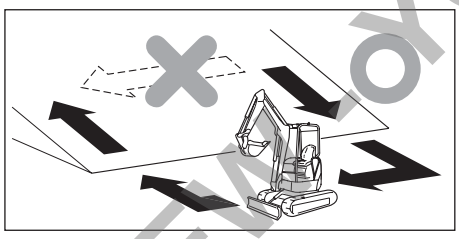
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- Avoid running over obstacles if possible. If unavoidable, run the machine at a low speed while keeping the implement close to the ground. Never run over obstacles that may cause the machine to tilt more than 10 degrees.







Running the machine on a slope

- Run the machine carefully on a slope to avoid overturning or skidding sidewards.
- When running the machine on a slope, keep the bucket 20 to 30 cm above the ground so that you can immediately lower it to the ground and stop the machine in an emergency.
- Never turn the machine on a slope or run it across the slope.
- Move down to flat ground and then make a turn.
- On grasses, dead leaves or a wet metal plate, even with a slight gradient, the machine will easily slip. Under those circumstances, run the machine carefully at low speed to prevent it from skidding.

(1) Going down a slope
(2) Going up a slope

Note: For the maximum accepted gradient, refer to the specification table.

Braking when going down a slope

- When going down a slope, you can automatically brake the machine by setting the travel levers to the neutral position.

When the crawler is slipping

- If you cannot climb a slope by operating the travel levers because the crawler is slipping, retract the arm and make use of the pull-back power of the implement to climb the slope.

When the engine stops

- If the engine stops while climbing a slope, set the travel levers to the neutral position, stop the machine, and restart the engine.

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11 Transportation

11.1 Precautions for transporting the machine

Shipping weight: Refer to the specification table.

⚠ CAUTION

- **Select a route for transporting the machine based on the road width and clearance, and the height and weight of the machine.**

For safer transportation, comply with all local regulations and laws.

11.2 Suspending the machine

⚠ CAUTION

- **Never suspend the machine if any person is on the machine or the implement.**
- **Use wire ropes strong enough for the weight of the machine.**
- **Do not suspend the machine in any way other than that explained on the following page.**
- **Failure to suspend the machine as prescribed will throw the machine off balance.**
- **Do not swing the machine being suspended.**
- **When suspending the machine, keep the machine in balance taking care on the center of gravity of the machine.**
- **Never stand near or under the suspended machine.**

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16 Basic Servicing Practices

16.1 Filter

The filters are very important parts which prevent impurities from getting into critical devices through the lube oil, fuel and air systems. Replace the filter elements periodically according to the instructions of the Operation Manual. Under difficult conditions, you need to replace the filter elements earlier than suggested in the Operation Manual depending on the type of oil and fuel (sulfur content).

- Never reuse the filter elements (cartridge type) by cleaning them.
- When replacing an oil filter element, check that no metallic dust or foreign solids are present on the old filter.
- If they are found to be present, contact the nearest dealer.
- Do not unpack the filter element before use.
- Use YANMAR genuine filter elements.

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21 Specifications

21.1 Specifications

		B25V			
Crawlers		steel	rubber	steel	rubbe
H (crawler tension)	mm	105~115	8~13	105~115	8~13
Items		Cabin		Canopy	
Weight (in compliance with CE standards)					
Operating mass (with operator + 75 kg)	kg	2905	2825	2805	2715
Working range and performance					
Operating temperature range	°C	-15 ~ 40			
Bucket capacity, standard	m^3	0.06~0.08			
Bucket width, standard	mm	490			
Maximum digging depth	mm	2600			
Maximum vertical wall digging depth	mm	1580			
Maximum cutting height	mm	4100			
Maximum dumping height	mm	2700			
Maximum digging radius of the ground	mm	4480			
Front minimum swing radius <at swinging the boom>	mm	1850<1400>			
Boom swing angle : left / right		50° / 90°			
Maximum digging force : bucket / arm	kN	20.4			
Travel speed : high / low	km / h	4.4 / 2.5	4.6 / 2,6	4.4 / 2.5	4.6 / 2.6
Maximum gradient		30°			
Swing speed	rpm	10			
Average ground pressure, standard crawler	kg / cm^2	0,.32	0,316	0,31	0,30
Hydraulic pump displacement	L / min	P1=30.6; P2=30.6; P3=25.2			
System relief set pressure	MPa	P1=18.1; P2=18.1; P3=18.1			

Engine		**B25V**
Type	-	Vertical three cycle, Water-Cooled, Direct Injection, Diesel
Model	-	YANMAR 3TNV82A - VB1A
Rated output / revs	kW / rpm	15.3 / 2100
Displacement	cm^3	1,330
Compression pressure	MPa	3,16 at 2150 rpm
Nozzle injection pressure	MPa	19.6 ~ 20.6
Generator capacity	V / A	12 / 40
Type	V / Ah	12 / 60

Subject to technical modifications

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14.2 Troubleshooting

Engine

- Contact your dealer about the measures shown in parentheses in the list below.
- If there is any abnormality or trouble whose cause is unknown other than those shown below, ask your dealer for repair.

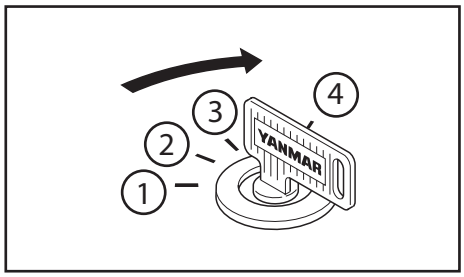
Problem		Cause	Measure
Engine	Steam comes out of top of radiator.	• Shortage of cooling water	• Check cooling water level. Refill, if necessary. (Check cooling water for leak from water port.)
	Water temp alarm lamp lights.	• Loose fan belt	• Adjust belt tension.
		• Buildup of dust and water scale on cooling system	• Replace cooling water. Clean inside of cooling water system.
		• Defective thermostat	• Replace thermostat.
		• Clogged radiator fin or inclined fin	• Clean or repair fin.
		• Defective electrical system	• Check or replace electrical system.
	Turning on starter motor does not start engine.	• Shortage of fuel	• Refill fuel tank.
		• Air mixed in fuel system	• Repair air leak. Release air from fuel system.
		• Defective fuel injection pump or deteriorated nozzle performance	• (Replace pump or nozzle.)
		• Improper compression	• (Check and repair.)
		• Blown out fusible link	• Replace fusible link.
		• Damaged key stop solenoid. Link disengagement	• (Check and repair.)
	Dark fumes come out of machine.	• Clogged air cleaner element	• Clean or repair element.
		• Deteriorated nozzle performance	• (Check and repair.)
		• Improper compression	• (Check and repair.)
	Exhaust color is white or bluish white.	• Too much oil in oil pan	• Drain oil from oil pan to specified level.
		• Improper fuel	• Replace fuel with recommended one.
		• Worn cylinder or piston ring	• (Repair.)

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- When the engine is not running and the switch is in the "ON" position, the buzzer keeps sounding.

  Turn the switch to the "OFF" position to stop sounding.

1) Air heater
2) Off
3) On
4) Start



(3) Light switch

The boom light and the headlight go on when the switch is turned on with the starter switch set to the "ON" position.

- ON : The lamps go on.
- OFF : The lamps go off.

IMPORTANT

Do not keep the lamps on for a long time while the engine is not running. The battery runs down and the engine cannot be started.



(4) Heater switch (

Use this switch to warm up the air in cabin. Move the switch to select fan speed. The heater switch allows you to select a high or low draft volume by setting it as follows:

- LO : Low fan speed.
- HI : High fan speed.
- OFF : Off.

Operate the heater switch after the cooling water has warmed up



(5) Wiper switch

This switch serves both wiper switch and windshield washer switch.

Wiper (for cabin):
Move the switch to the "ON" position to actuate the wiper of the windshield.

- ON : Wiper works.
- OFF : Wiper stops.

Windshield washer (for cabin):
Push the wiper switch.
The windshield will be sprayed with windshield washer fluid.

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