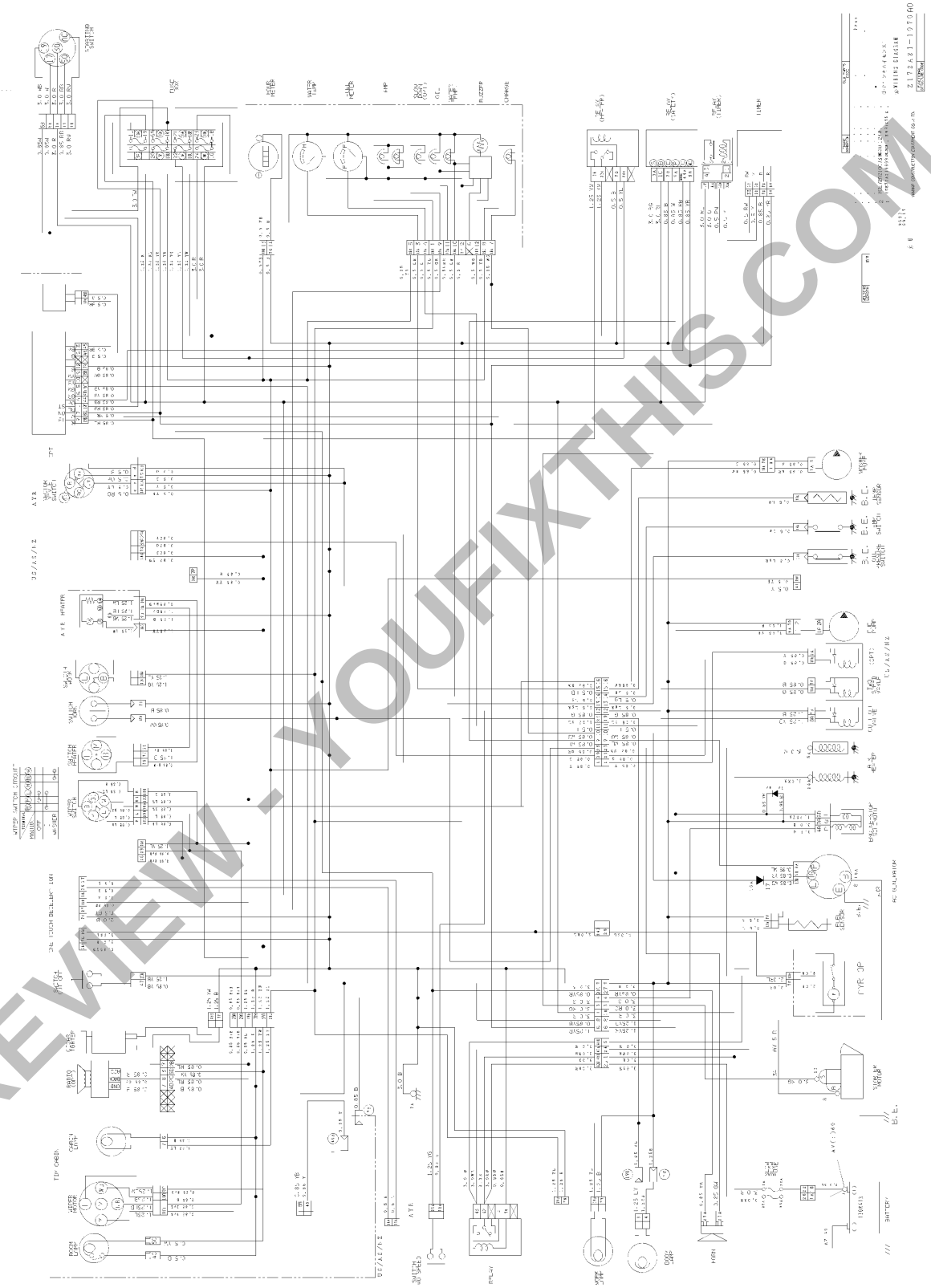
23.2 Wiring diagrams
ViO75-A

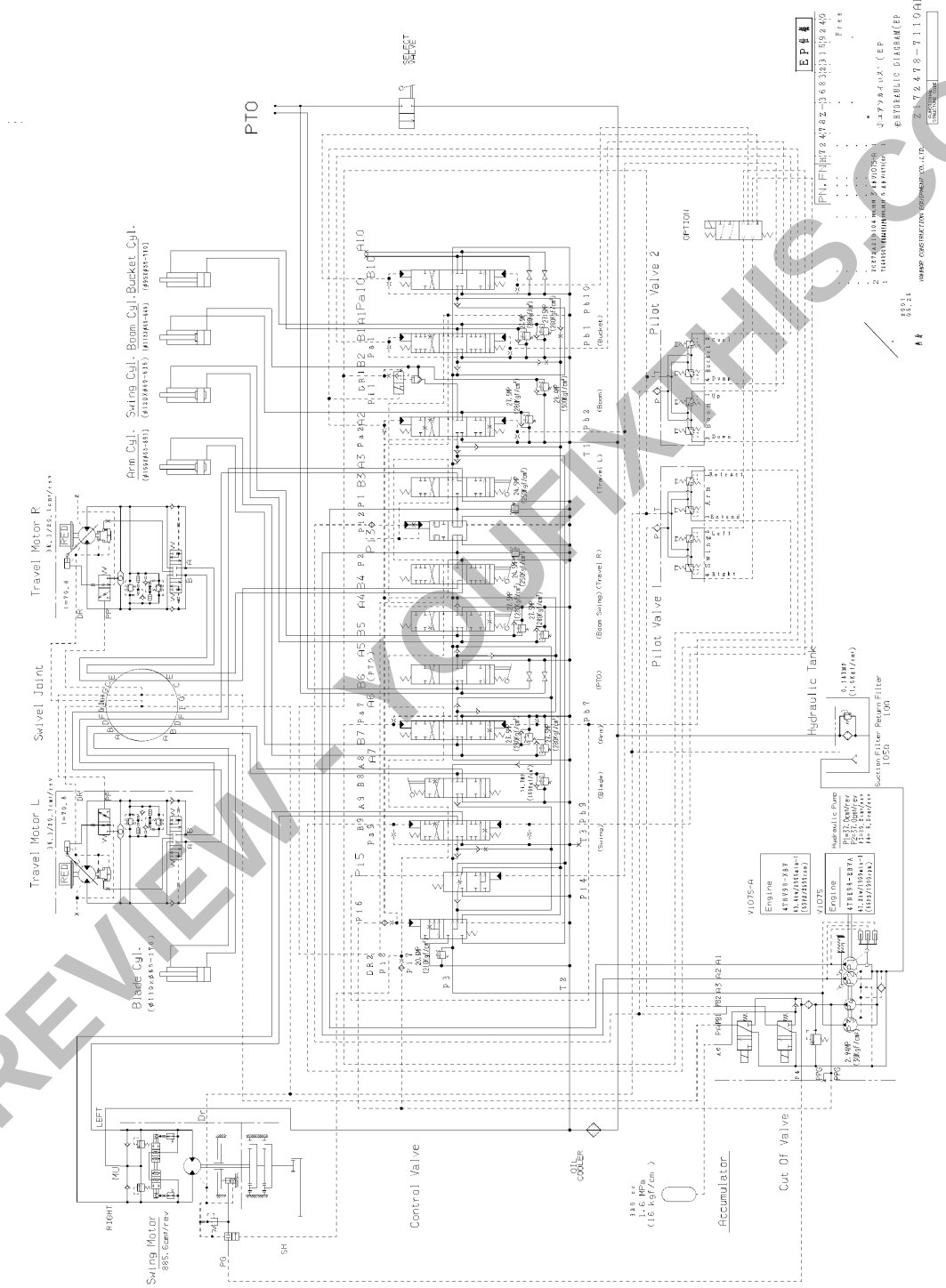


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23 Hydraulic and wiring diagrams

23.1 Hydraulic diagrams ViO75-A



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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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21 Specifications

21.1 Specifications

		ViO75-A	B7 Σ-A	SV100
Crawlers		rubber / steel	rubber / steel	rubber / steel
H (crawler tension)	mm	20~25 / 145~155	20~25 / 145~155	20~25 / 170~180
Items		Cabin	Cabin	Cabin
Weight (in compliance with CE standards)				
Operating mass (with operator + 75 kg)	kg	7720 / 7770	8030 / 8080	9250 / 9350
Working range and performance				
Bucket capacity, standard	m^3	0,28	0,28	0,30
Bucket width, standard	mm	750	750	800
Maximum digging depth	mm	4200	4350	4400
Maximum vertical wall digging depth	mm	3500	3770	4000
Maximum cutting height	mm	7050	7600	7320
Maximum dumping height	mm	4920	5490	5200
Maximum digging radius of the ground	mm	6740	6410	7000
Front minimum swing radius <at swinging the boom>	mm	2120 <1700>	1200	2290 <1860>
Boom swing angle : left / right		68° / 68°	-	68° / 68°
Maximum digging force (bucket)	kN	54,8	54,8	68,5
Travel speed : high / low	km / h	4,7 / 2,7 - 4,5 / 2,5	4,7 / 2,7 - 4,5 / 2,5	4,5 / 2,5
Maximum gradient		30°	30°	30°
Swing speed	rpm	10,0	10,0	9,6
Average ground pressure, standard crawler	kg / cm^2	0,342 / 0,346	0,356 / 0,360	0,36 / 0,37
Hydraulic pump displacement	L / min	74,0 X 2 <Variable displacement pumps> 60,4 X 1 <Gear pump>	74,0 X 2 <Variable displacement pumps> 60,4 X 1 <Gear pump>	81,4 X 2 <Variable displacement pumps> 61,6 X 1 <Gear pump>
System relief set pressure	MPa	24,5 X 2 20,6 X 1	24,5 X 2 20,6 X 1	27,5 X 2 24,5 X 1

Engine		ViO75-A	B7 Σ-A	SV100
Type	-	Vertical four cycle water-cooled direct injection diesel engine	Vertical four cycle water-cooled direct injection diesel engine	Vertical four cycle water-cooled direct injection diesel engine
Model	-	4TNV98-XBV	4TNV98-XBV	4TNV98T-SBV
Rated output / revs	kW / rpm	43,4 / 2000	43,4 / 2000	54,8 / 2200
Displacement	cm^3	3318	3318	3318
Compression pressure	MPa	2,94 +/- 0,1 at 250 rpm	2,94 +/- 0,1 at 250 rpm	2,94 +/- 0,1 at 250 rpm
Nozzle injection pressure	MPa	21,6 ~ 22,6	21,6 ~ 22,6	21,6 ~ 22,6
Generator capacity	V / A	12 / 40	12 / 40	12 / 40
Battery	V / Ah	12 / 92	12 / 92	12 / 92

Subject to technical modifications

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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.

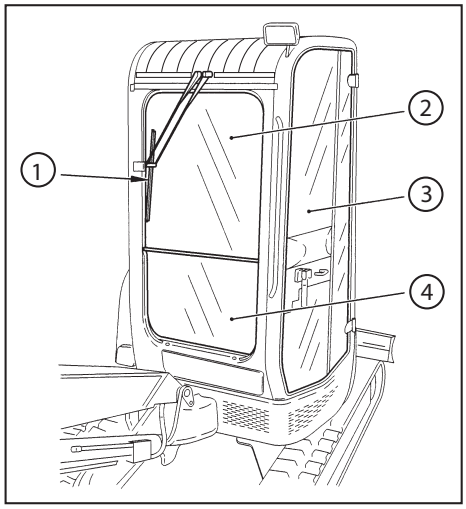
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10.8 Windshield

⚠ ATTENTION

- **To avoid bodily injury while operating the machine, make sure the door and windshield are locked in either the open or shut position.**
- **When the side door or the windshield are opened and are not securely locked, they may be closed suddenly on impact during operation. They may cause bodily injury : for example, your hands are put between the door or the windshield and the cabin frame or your head is hit against them.**
- **Do not put your hand or head out of the opened side door or windshield. When opening the side door or the windshield, lock it securely.**



1) Wiper
2) Upper windshield
3) Side door
4) Lower windshield

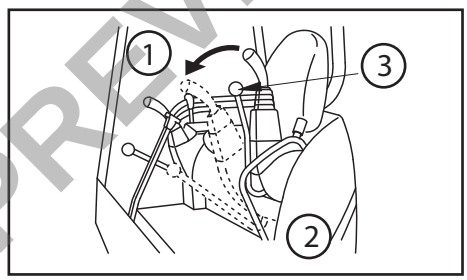
⚠ CAUTION

Both the upper and lower windshields can be opened and closed.

When opening or closing the upper and / or lower windshields, they may go down suddenly. To prevent this, lock them securely with the lock levers.

⚠ CAUTION

- **To avoid bodily injury, securely grasp the handles with both hands when opening and closing the windshield.**
- **Securely lock the windshield using the lock levers and the window locks when storing or closing the upper and lower front windshields.**
- **When opening or closing the front windshield, be sure to place the lock levers securely in the lock position.**

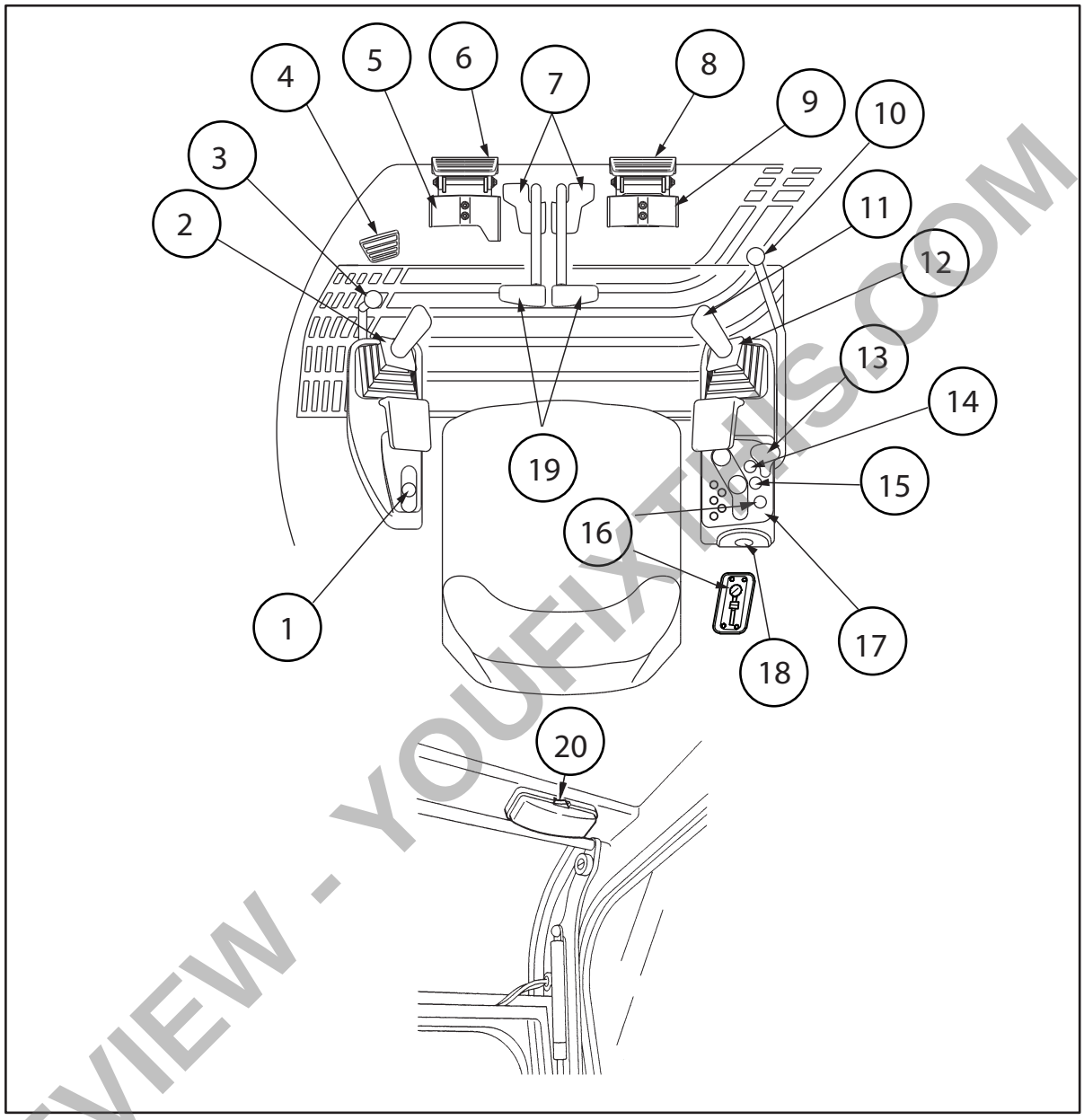


1) Unlock
2) Left side
3) Lock lever

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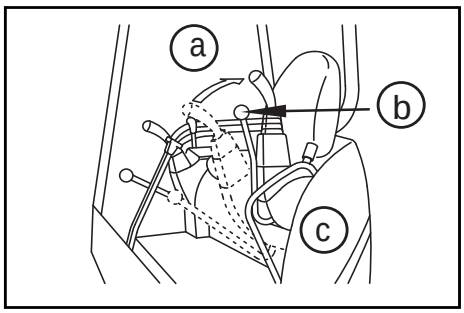
9.2 Controls and switches



1) Accelerator lever
2) Control lever (L)
3) Lock lever
4) High speed pedal
5) P.T.O. pedal
6) Pedal guard
7) Travel pedal
8) Pedal guard
9) Boom swing pedal
10) Lock lever
11) Horn switch
12) Control lever (R)
13) Blade lever
14) Light switch
15) Wiper switch
16) Switch / selector for fan (depending on model)
17) Monitor
18) Starter switch
19) Travel lever
20) Room lamp switch

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1) Set the left and right travel levers to the neutral position to stop the machine.
2) Idle the engine with the accelerator lever.
3) Place the bucket on the ground with its bottom surface in contact with the ground.
4) Place the blade on the ground.
5) Set the lock levers to the "LOCK" position.

(a) Lock
(b) Lock lever
(c) Left side

Use handrails and steps when getting on and off

- Do not jump on or off the machine. Never get on or off a machine in motion as it may result in bodily injury.
- When getting on and off the machine, face the machine and use the handrails and steps.
- Do not use control levers as handrails.
- Make sure that you maintain three point contact with the handrails or the steps.
- If the handrails and the steps are soiled with oil or dirt, clean them off immediately. Repair any damaged parts and retighten any loose bolts.

6.5 Attachment precautions

⚠ WARNING

Be careful when setting up and dismantling the attachments. An attachment not adapted to the machine can destabilise it.

When you install or remove the attachments, comply with the following precautions:

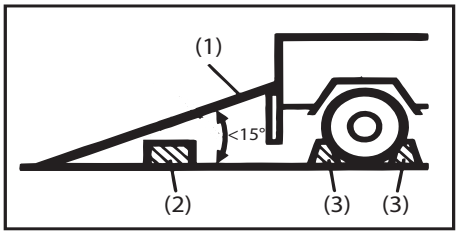
- Place the machine on hard, flat ground.
- Shutdown the engine.
- Keep the parts clean and well lubricated.
- Never install attachments that exceed the maximum accepted overall dimensions.
- Never stand under a suspended load.

It is recommended that the user acquaint himself with and retain the instructions relating to the installation and use of the attachment.

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6.6 Precautions for transportation



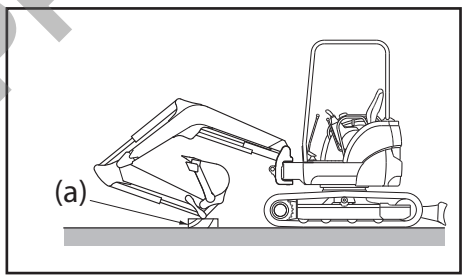
Precautions for loading and unloading the machine

(1) Ramp plate
(2) Block
(3) Stoppers

- Be careful in loading and unloading the machine, because it is a job of high hazard potential.
- Load or unload the machine at a low engine speed, and low travel speed.
- Load or unload the machine on the level, solid ground away from the shoulder of the road.
- Use ramp plates of adequate strength with hooks on their ends.
- Check to see that the ramp plates are wide, long, and thick enough to sustain the load so that you can load or unload the machine safely. Support the ramp plates with blocks, to provide additional strength.
- Securely hook the ramp plates to the deck of the truck so that they will not come off.
- Remove grease, oil, and other slippery deposits from the ramp plates, and remove mud from the tracks to prevent the machine from skidding on the ramp plates.
- Do not load or unload the machine if the ramp plates are slippery because of rain, snow or ice.
- Never change travel direction while on the ramp plates. If you need to change travel direction, go down the ramp plates, and change direction on the ground.
- After loading the machine, block it with lumber and secure the machine with a chain or a wire rope so that the machine will not move during transit.

Precautions for transporting

- Transport the machine safely in accordance with the laws associated with applicable law.
- Select a travel route consistent with the width, height and weight of the machine loaded on the truck.



⚠ CAUTION

Load or unload the machine on level, solid ground far away from the shoulder of the road.

After loading the machine in a safe position on the truck, secure the machine as follows:

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2 Safety Information

The following Signal Words have been used in this Manual and on the Safety Signs to indicate the seriousness of the hazards that could be encountered by failing to comply with the applicable Product Warnings, as follows:

⚠ DANGER

Could result in death or catastrophic bodily injury.

⚠ WARNING

Could result in bodily injury.

⚠ CAUTION

Could result in property damage.

IMPORTANT

The signal Word "IMPORTANT" has been utilized in this Manual to denote those User Directions that must be followed to assure the safe operation and maintenance of the machine.

- **WARNING** : The operator of this machine must be competent and trained for its use.
- **WARNING** : Never attempt to operate or service this machine until you have first read and understood all of the applicable Product Warnings and User Directions that are set forth in this Manual and on the Safety Signs that are affixed to this machine.

  The failure to comply with all relevant Safety Instructions could result in bodily injury.
- **WARNING** : Never modify the design of this machine or its engine; never remove or disable any of the installed safety guards or devices; and never use any unauthorized attachments in the operation of this equipment.

  The implementation of any unauthorized design modifications or the use of unauthorized attachments could result in bodily injury.

  Furthermore, since those actions would expressly violate the terms of Yanmar's Product Warranty, the applicable Warranty would also be voided.

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