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5 Basic Precautions

⚠ WARNING

It is the user's responsibility to determine if an application presents any dangerous phenomena, for example: toxic gases, ground conditions requiring special precautions and measures to be taken to eliminate or reduce risks.

Follow safety rules at your workplace

- The operation and servicing of this machine is restricted to qualified persons.
- When operating or servicing the machine, follow all the safety rules, precautions and procedures.
- Any work performed by a team or with a signal person should be conducted in accordance with signals agreed on beforehand.

⚠ DANGER

The machines are not equipped to operate in explosive environments.

Install safety devices

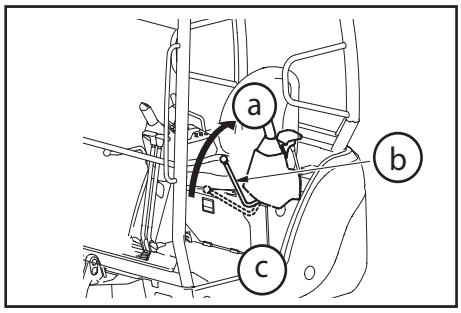
- Make sure that all guards and covers are installed in their correct position. If any of them are damaged, repair them immediately.
- The proper use of all safety devices, such as lock lever, should be well understood by the machine operator.
- Never remove the safety devices. Always make sure that they operate properly. Incorrect operation of the safety devices could cause serious bodily injury.

Fasten the seatbelt

- For your safety, a rollover protection structure (ROPS), falling object protective structure (FOPS) and a rotary tipping protective structure (TOPS) with a safety belt are installed. (Depending on model)
- Always fasten the seatbelt and adjust snugly before you operate the machine.
- The seatbelt must be replaced after an accident.
- In addition the seat and seat mounting must be checked by your dealer after an accident has occurred.
- If the seat and seat mounting are damaged, they must be replaced.

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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:

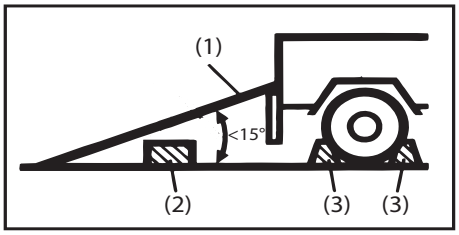
- Place the machine on hard, flat ground.
- Shutdown the engine.
- Keep the parts clean and well lubricated.
- Never install attachments that exceed the maximum accepted overall dimensions.
- Never stand under a suspended load.

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



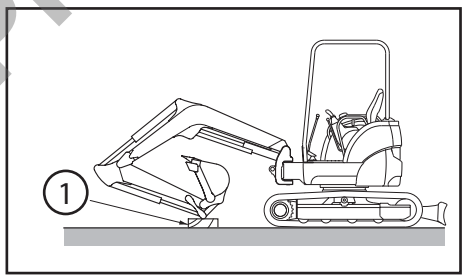
Precautions for loading and unloading the machine

(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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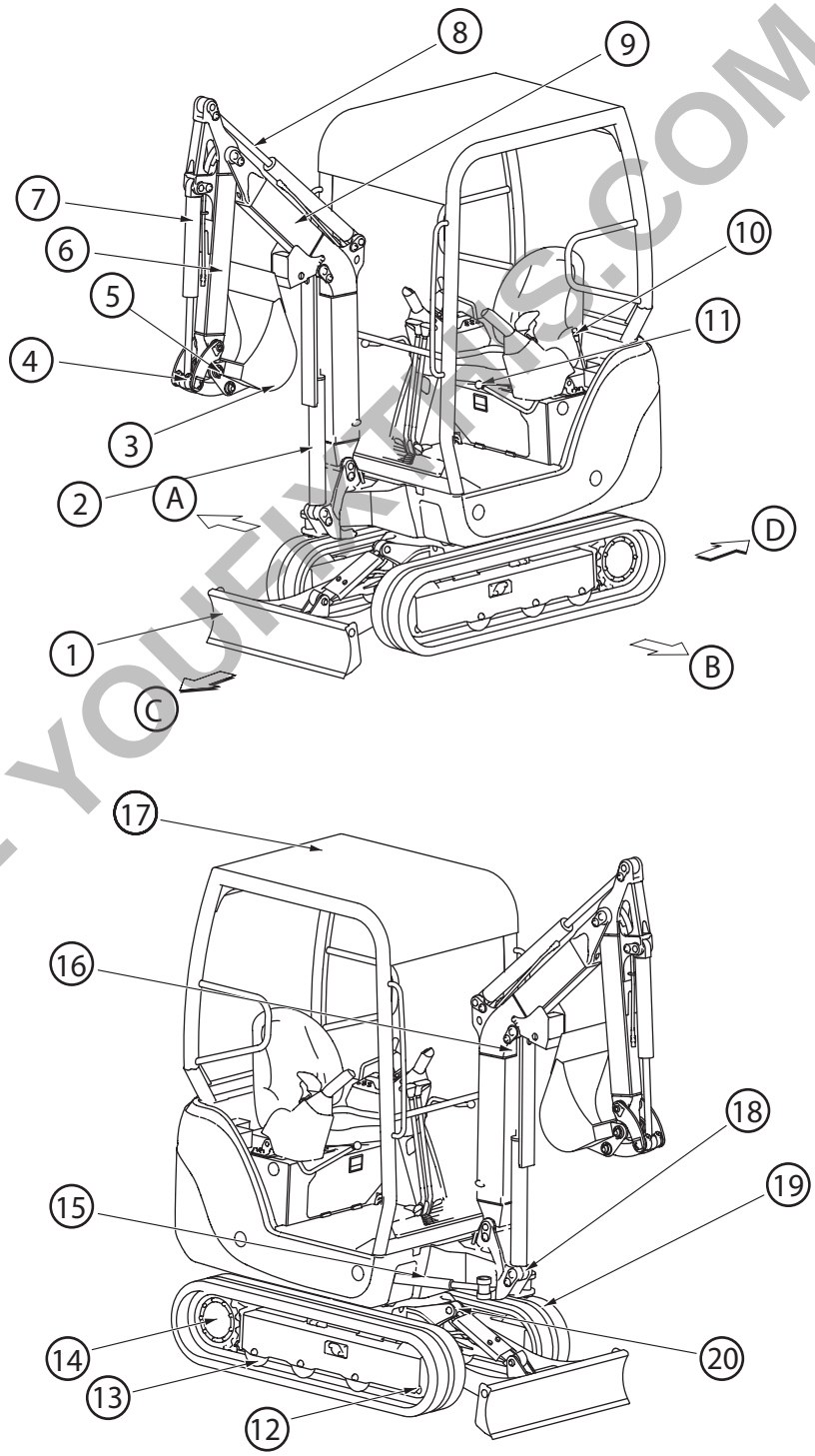
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9 Identification of Important Parts

9.1 Overview of the machine

A = Cabin type
B = Right
C = Left
D = Front
E = Rear

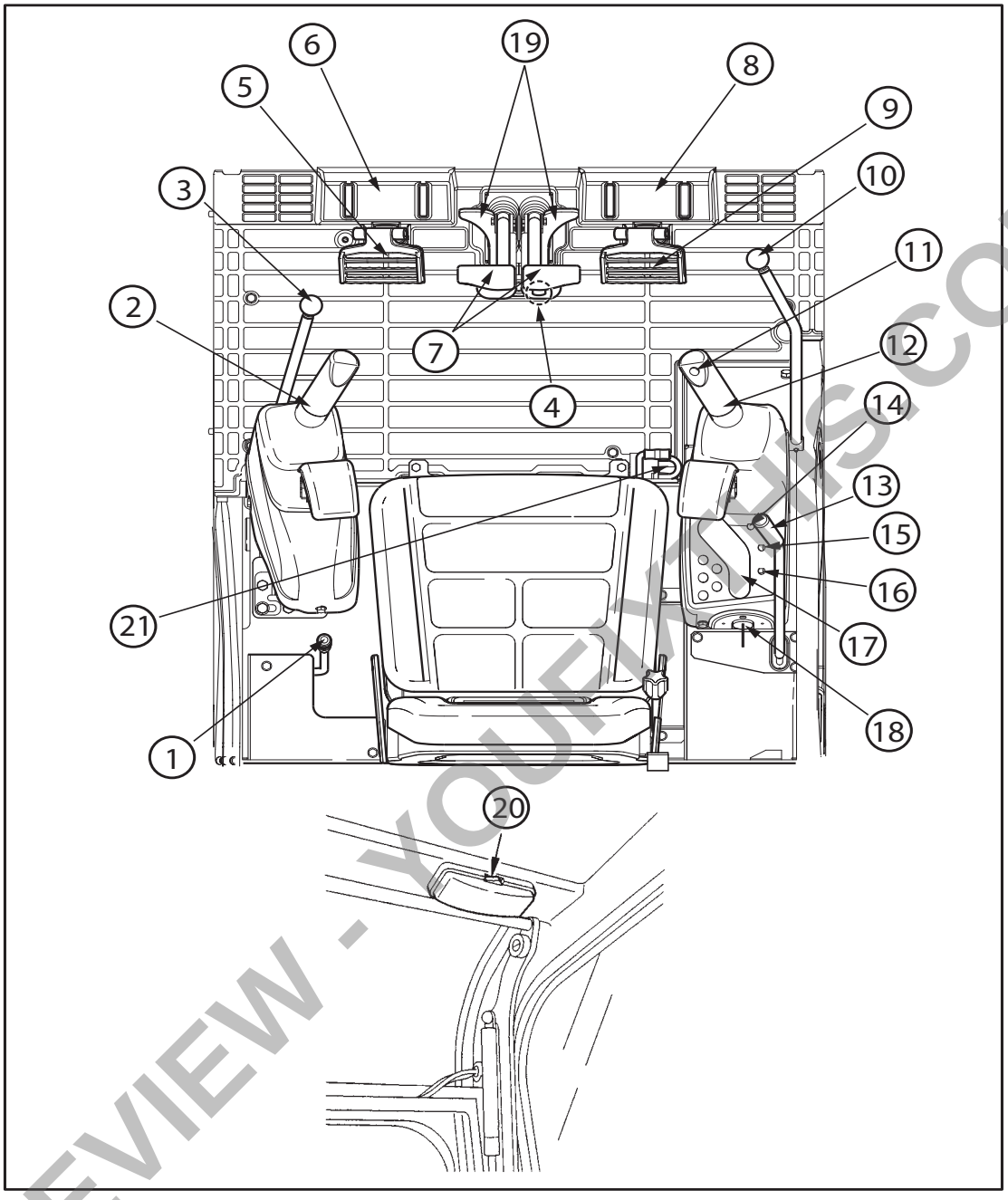
1) Blade
2) Boom cylinder
3) Bucket
4) Bucket pin
5) Bucket link
6) Arm
7) Bucket cylinder
8) Arm cylinder
9) Boom
10) Accelerator lever
11) Lock lever
12) Idler
13) Track roller
14) Sprocket
15) Boom swing cylinder
16) Boom light (Work lamp)
17) Canopy
18) Boom bracket
19) Crawler
20) Blade cylinder



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9.2 Controls and switches



A = For cabin type

1) Accelerator lever
2) Control lever (L)
3) Lock lever
4) 2nd speed pedals
5) P.T.O. pedal
6) Pedal guard
7) Travel levers
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 (for cabin type)
16) Heater switch (for cabin type)
17) Monitor
18) Starter switch
19) Travel pedals
20) Room lamp switch

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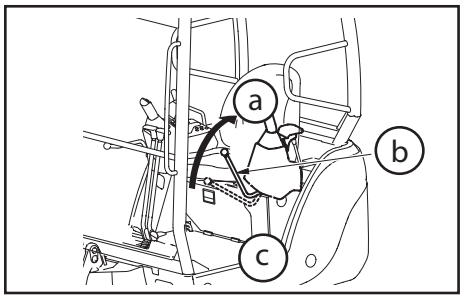
(1) Lock levers (To activate all the work levers)

The lock levers lock the implement control, travel levers and blade levers. When pulling the left lock lever back, the control lever stand (L) comes up. While the control lever stand (R) does not come up when pulling the right lock lever back. (Canopy version)

IMPORTANT

The machine uses a hydraulic lock system. If the lock levers are in the lock position, all the hydraulic cylinders for the boom, arm, bucket and blade as well as the swing and travel motors will not activate although the right and left implement control levers can be operated.

The blade lever is not locked by setting the lock lever to the lock position.

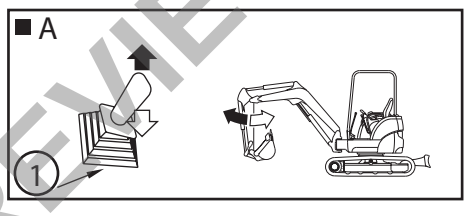


a = Locked
b = Lock lever (left side)
c = Left side

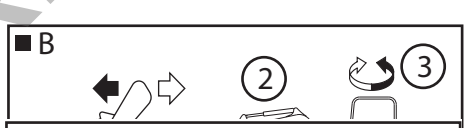
⚠ CAUTION

The relationship between the control lever shift configuration and the implement movement is detailed in this manual. To prevent an accident due to operational error, therefore, the hydraulic system must not be modified by reconnecting the hydraulic hoses and valves.

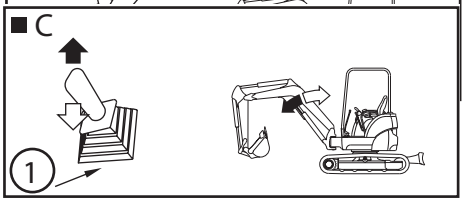
(2) and (3) Control levers (left and right))



A = Operating the arm
1) Control lever (L)



B = Swing the upperstructure
1) Control lever (L)
2) Right swing
3) Left swing



C = Operating the boom
1) Control lever (R)

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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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19.2 List of periodic inspection and servicing

◇: Check ○: Supply ❶: Replace first time ●: Replace □: Adjust (clean) ■: Oil and grease

Check & service items Machine		Daily	Every 50h	Every 250h	Every 500h	Every 1000h **
General	Falling off or breakage of parts	◇				
	Retighten bolts and nuts	◇				
	Engine condition	◇				
Lube oil	*Swing gear case		❶	○		●
	Travel reduction gear		❶	○		●
Hydraulic system	Hydraulic oil	◇				●
	Suction filter					□
	Return filter			❶	●	
Grease	Grease-up positions	■				
	Swing gears and Swing bearings		■			
Undercarriage	Track tension	◇				
Pilot	Steering lever	◇				
	Travel lever	◇				
	*Speed change	◇				
	Accelerator lever	◇		□		
Electric equipment	Lights, horn	◇				
	Hourmeter	◇				
	Warning lights	◇				
	Function of electric wiring and battery	◇				

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21 Specifications

21.1 Specifications

		SV15		SV17		SV17EX	
Crawlers		rubber		rubber		rubber	
H (crawler tension)	mm	8~13	8~13	8~13	8~13	8~13	8~13
Items		Canopy	Cabin	Canopy	Cabin	Canopy	Cabin
Weight (in compliance with CE standards)							
Operating mass (with operator + 75 kg)	kg	1535	1655	1670	1790	1805	1925
Working range and performance							
Operating temperature range	°C	-15 ~ 40		-15 ~ 40		-15 ~ 40	
Bucket capacity, standard	m^3	0,04		0,04		0,04	
Bucket width, standard	mm	400		400		400	
Maximum digging depth	mm	2000		2400		2400	
Maximum vertical wall digging depth	mm	1500		1900		1900	
Maximum cutting height	mm	3400		3700		3700	
Maximum dumping height	mm	2460		2760		2760	
Maximum digging radius of the ground	mm	3510		3930		3930	
Front minimum swing radius <at swinging the boom>	mm	1480 <1290>		1540 <1340>		1540 <1340>	
Boom swing angle : left / right		40° / 80°		40° / 80°		40° / 80°	
Maximum digging force : bucket / arm	kN	13,7 / 7,6		15,2 / 7,4		15,2 / 7,4	
Travel speed : high / low	km / h	2,0		3,5 / 2,0		3,5 / 2,0	
Maximum gradient		30°		30°		30°	
Swing speed	rpm	9,4		9,4		9,4	
Average ground pressure, standard crawler	kg / cm^2	0,25	0,27	0,28	0,29	0,30	0,32
Hydraulic pump displacement	L / min	33,8 <Gear pump>		37,8 <Variable displacement pump>		37,8 <Variable displacement pump>	
System relief set pressure	MPa	17,65		19,6		19,6	

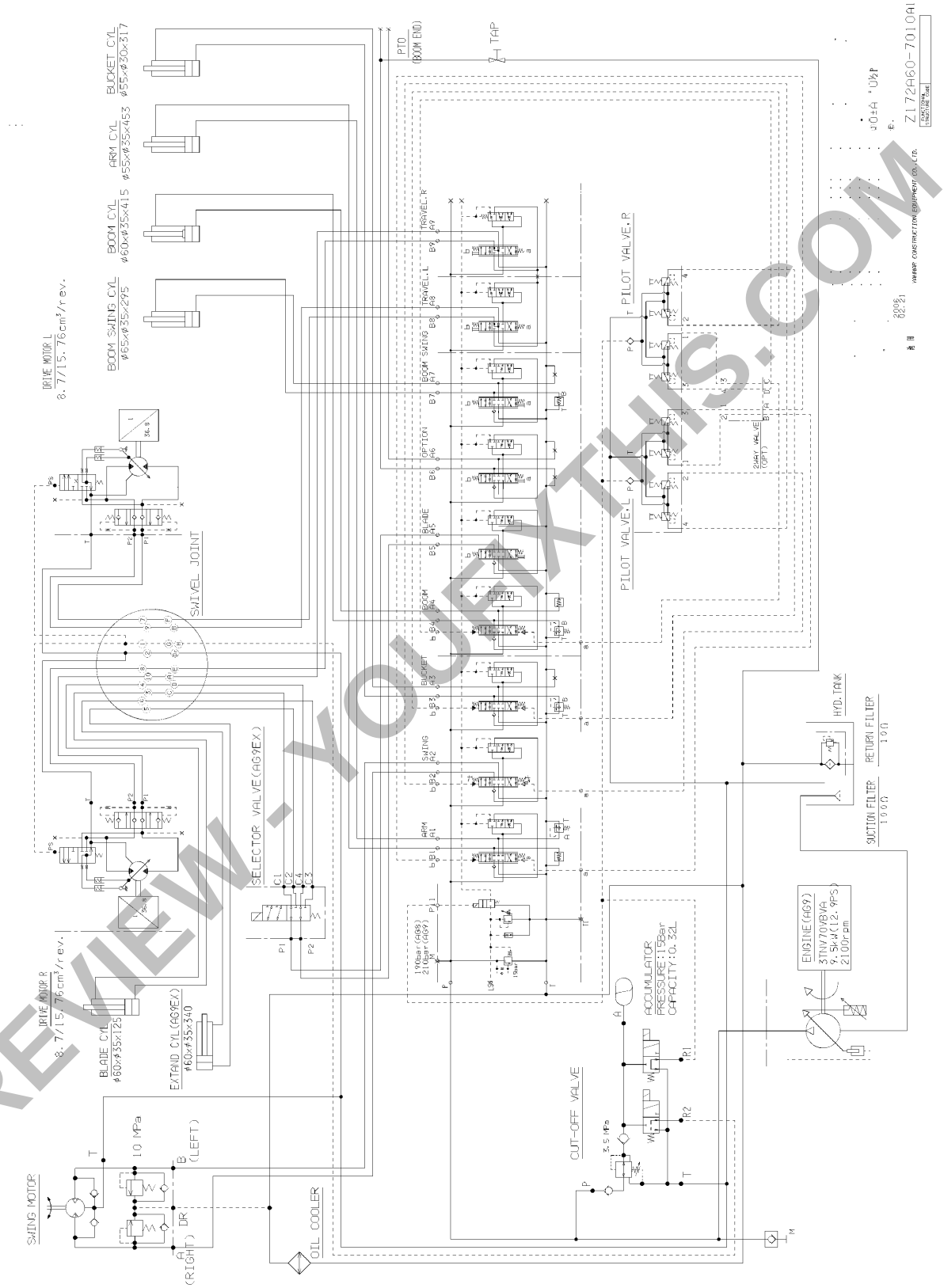
Engine		**SV15**	**SV17**	**SV17EX**
Type	-	Vertical three cycle, Water-Cooled, Direct Injection, Diesel	Vertical three cycle, Water-Cooled, Direct Injection, Diesel	Vertical three cycle, Water-Cooled, Direct Injection, Diesel
Model	-	YANMAR 3TNV70 - XBVA1	YANMAR 3TNV70 - VBVA	YANMAR 3TNV70 - VBVA
Rated output / revs	kW / rpm	12,1 / 2600	9,5 / 2100	9,5 / 2100
Displacement	cm^3	854	854	854
Compression pressure	MPa	3,24 at 250 rpm	3,24 at 250 rpm	3,24 à 250 rpm
Nozzle injection pressure	MPa	11,8 ~ 12,8	11,8 ~ 12,8	11,8 ~ 12,8
Generator capacity	V / A	12 / 40	12 / 40	12 / 40
Type	V / Ah	12 / 45	12 / 45	12 / 45

Subject to technical modifications

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SV17 - SV17EX



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