

HYDRAULIC EXCAVATOR

SK 100 ~ SK 120 v **SK 120**LC V

SHOP MANUAL

This is the shop manual for KOBELCO hydraulic excavator. Contained is the necessary technical data concerning the maintenance and repair of this model. The manual is divided into the following four major sections; GENERAL, SYSTEMS, COMPONENTS and PROCEDURE.

*GENERAL

LP01.	SPECIFICATION	LP04.	MAINTENANCE STANDARD AND
	OPERATION AND CONTROLS		TEST PROCEDURE
	(Refer to Operators Manual)	-	PREVENTIVE MAINTENANCE
LP03.	LOCATION AND		(Refer to Operators Manual)
	WEIGHT OF COMPONENTS	LP07.	WORKING STANDARD
		LP08.	STANDARD MAN-HOUR TABLE
YSTEM	S		
1013	LIVERALILIC CYCTEM	רכםו	CONTROL SYSTEM

*SY

LP12.	HYDRAULIC SYSTEM	LP22.	CONTROL SYSTEM
LP15.	SWING FRAME	LP25.	ELECTRICAL SYSTEM
LP18.	TRAVEL SYSTEM	LP26.	AIR-CONDITIONER SYSTEM
LP21.	ATTACHMENTS	LP29.	TROUBLE SHOOTING

*COMPONENTS

16. SWIVEL JOINT 12. HYDRAULIC PUMP 13. CONTROL VALVE 17. HYDRAULIC CYLINDER 14. OTHER VALVES 21. REDUCTION UNIT 15. HYDRAULIC MOTOR 50. ENGINE

*PROCEDURE

When checking or repairing the machine we suggest that you refer to this manual carefully. We hope that reference to this manual will help to maintain a high level of working efficiency and reliability. For further details on maintenance and checks refer to the "OPERATORS MANUAL" which has been supplied with the machine.

Although all data was correct at the time of printing, due to continual design changes and improvements, some contents may not conform to the actual machine. Take special care to order parts only after confirming the validity of the part number in the "PARTS MANUAL".

If you notice any explanatory discrepancies, after consulting one of our representatives, please update your manual according to the latest data. However, in the event of any specification changes, we will issue revised edition.



Book code No. **\$5LP0007E**(1)

A WARNING

SAFETY

A WARNING

The proper and safe lubrication and maintenance for this machine, recommended by KOBELCO are outlined in the OPERATION & MAINTENANCE GUIDE for this machine.

Improper performance of lubrication or maintenance procedures is dangerous and could result in injury or death. Read and understand the OPERATION & MAINTENANCE GUIDE before performing any lubrication or maintenance.

The serviceman or mechanic may be unfamiliar with many of the systems on this machine. This makes it important to use caution when performing service work. A knowledge of the system and or components is important before the removal or disassembly of any component.

Because of the size of some of the machine components, the serviceman or mechanic should check the weights noted in this Manual. Use proper lifting procedures when removing any components.

Following is a list of basic precautions that should always be observed.

- 1. Read and understand all Warning plates and decals on the machine before operating, lubricating or repairing this product.
- 2. Always wear protective glasses and protective shoes when working around machines. In particular, wear protective glasses when pounding on any part of the machine or its attachments with a hammer or sledge. Use welders gloves, hood/goggles, apron and other protective clothing appropriate to the welding job being performed. Do not wear loose-fitting or torn clothing. Remove all rings from fingers when working on machinery.
- 3. Disconnect battery and discharge any capacitors before starting to work on machine. Hang "Do Not Operate" tag in the Operator's Compartment.
- 4. If possible, make all repairs with the machine parked on a level, hard surface. Block machine so it does not roll while working on or under machine.
- 5. Do not work on any machine that is supported only by lift jacks or a hoist. Always use blocks or jack stands to support the machine before performing any disassembly.

A WARNING

Do not operate this machine unless you have read and understand the instructions in the OPERATOR'S MANUAL. Improper machine operation is dangerous and could result in injury or death.

- 6. Relieve all pressure in air, oil or water systems before any lines, fittings or related items are disconnected or removed. Always make sure all raised components are blocked correctly and be alert for possible pressure when disconnecting any device from a system that utilizes pressure.
- 7. Lower the bucket, blade, ripper or other implements to the ground before performing any work on the machine. If this cannot be done, make sure the bucket, blade, ripper or other implement is blocked correctly to prevent it from dropping unexpectedly.
- 8. Use steps and grab handles when mounting or dismounting a machine. Clean any mud or debris from steps, walkways or work platforms before using. Always face machine when using steps, ladders and walkways. When it is not possible to use the designed access system, provide ladders, scaffolds, or work platforms to perform safe repair operations.
- 9. To avoid back injury, use a hoist when lifting components which weigh 23 kg (50 lbs) or more. Make sure all chains, hooks, slings, etc., are in good condition and are in the correct capacity. Be sure hooks are positioned correctly. Lifting eyes are not to be side loaded during a lifting operation.
- 10. To avoid burns, be alert for hot parts on machines which have just been stopped and hot fluids in lines, tubes and compartments.
- 11. Be careful when removing cover plates. Gradually back off the last two bolts or nuts located at opposite ends of the cover or device and pry cover loose to relieve any spring or other pressure, before removing the last two bolts or nuts completely.
- 12. Be careful when removing filler caps, breathers and plugs on the machine. Hold a rag over the cap or plug to prevent being sprayed or splashed by liquids under pressure. The danger is even greater if the machine has just been stopped because fluids can be hot.

A WARNING

- 13. Always use tools that are in good condition and be sure you understand how to use them before performing any service work.
- 14. Reinstall all fasteners with same part number. Do not use a lesser quality fastener if replacements are necessary.
- 15. Repairs which require welding should be performed only with the benefit of the appropriate reference information and by personnel adequately trained and knowledgeable in welding procedures. Determine type of metal being welded and select correct welding procedure and electrodes, rods or wire to provide a weld metal strength equivalent at least to that of parent metal. Always disconnect battery during welding operations to protect sensitive electric equipment.
- 16. Do not damage wiring during removal operations. Reinstall the wiring so it is not damaged nor will it be damaged in operation by contacting sharp corners, or by rubbing against some object or hot surface. Do not connect wiring to a line containing fluid.
- 17. Be sure all protective devices including guards and shields are properly installed and functioning correctly before starting a repair. If a guard or shield must be removed to perform the repair work, use extra caution.
- 18. Loose or damaged fuel, lubricant and hydraulic lines, tubes and hoses can cause fires. Do not bend or strike high pressure lines or install ones which have been bent or damaged. Inspect lines, tubes and hoses carefully. Do not check for leaks with your hands. Pin hole (very small) leaks can result in a high velocity oil stream that will be invisible close to the hose. This oil can penetrate the skin and cause personal injury. Use cardboard or paper to locate pin hole leaks.
- 19. Tighten connections to the correct torque. Make sure that all heat shields, clamps and guards are installed correctly to avoid excessive heat, vibration or rubbing against other parts during operation. Shields that protect against oil spray onto hot exhaust components in event of a line, tube or seal failure must be installed correctly.

- 20. Do not operate a machine if any rotating part is damaged or contacts any other part during operation. Any high speed rotating component that has been damaged or altered should be checked for balance before reusing.
- 21. On track-type machines, be careful when servicing or separating tracks. Chips can fly when removing or installing a track pin. Wear safety glasses and long sleeve shirts. Track can unroll very quickly when separated. Keep away from front and rear of machine. The machine can move unexpectedly when both tracks are disengaged from the sprockets. Block the machine to prevent it from moving.
- 22. Caution should be used to avoid breathing dust that may be generated when handling components containing asbestos fibers. If this dust is inhaled, it can be hazardous to your health. Components in KOBELCO products that may contain asbestos fibers are brake pads, brake band and lining assemblies, clutch plates and some gaskets. The asbestos used in these components is usually bound in a resin or sealed in some way. Normal handling is not hazardous as long as airborne dust which contains asbestos is not generated.

If dust which may contain asbestos is present, there are several common sense guidelines that should be followed.

- a. Never use compressed air for cleaning.
- b. Avoid brushing or grinding of asbestos containing materials.
- For clean up, use wet methods or a vacuum equipped with a high efficiency particulate air (HEPA) filter.
- d. Use exhaust ventilation on permanent machining jobs.
- e. Wear an approved respirator if there is no other way to control the dust.
- f. Comply with applicable rules and regulations for the work place.
- g. Follow environmental rules and regulations for disposal of asbestos.
- Avoid areas where asbestos particles may be in the air.



SHOP MANUAL

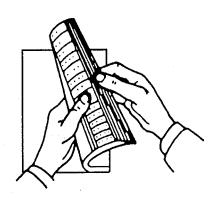
model

SK 100 V SK 120 V SK 120LC V

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Ohow to Index each Shop Manual Section
The GENERAL of this shop manual consists of 8
headings as shown above. Each section can be
easily referred to by indexes appended to the
margin of the page as indicated on the right.
Please use the indexes for speedy reference.



KOBELCO

GENERAL

SK100 v SK120 v SK120LC v

List of Shop Manual GENERAL Section

Index	Title		Book Code No.	
No.	1 itle		Distribution Year - Mont	h .
LP01	SPECIFICATION	S5LP0106E 1994-04		
_	OPERATION	S2LP1014E Refer to Operators manu	al	
LP03	LOCATION AND WEIGHT OF COMPONENTS	S5LP0306E 1994-04		
LP04	MAINTENANCE STANDARDS AND TEST PROCEDURES	S5LP0408E 1994-04		
	PREVENTIVE MAINTENANCE	S2LP1014E Refer to Operators manu	al	· .
LP07	WORKING STANDARDS	S5LP0704E 1994-04		
LP08	STANDARD MAN-HOUR TABLE	S5LP0802E 1994-04		
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		-		
	Applicable Machines	YW06501~ LP11001~ YP02301~		

KOBELCO SHOP MANUAL

 $\begin{array}{c} {}^{\text{Book code No.}} \\ {}^{\text{S5}LP01} \\ {}^{\text{06E}} \end{array}$

SK 100 v SK 120 v SK 120 Lc v

LP01

SPECIFICATION

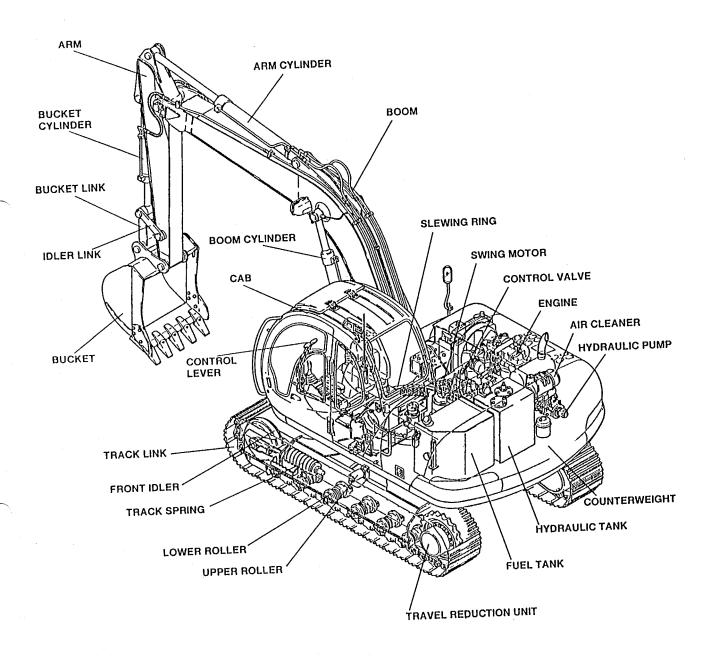
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1.	NAME OF COMPONENTS	1
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5.	TYPE OF BUCKET	6
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Applicable Machines
YW06501~
LP11001~
YP02301~

Revision	Date of Issue	Remarks	
First edition	April, 1994	S5LP0106E	K
			-

1. NAME OF COMPONENTS

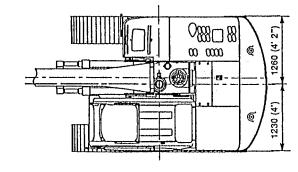


LP-0-1

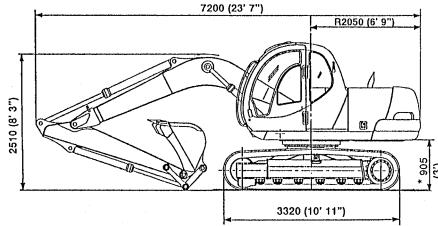
2. GENERAL DIMENSIONS

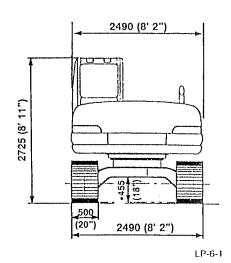
• SK100 v with 4.26 m (14 ft) boom and 2.22 m (7 ft-3 in) standard arm

Unit: mm (ft-in)

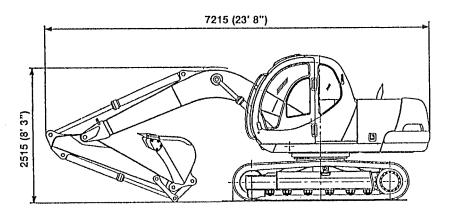


Note: Numerical values marked * do not include the height of the shoe lug.



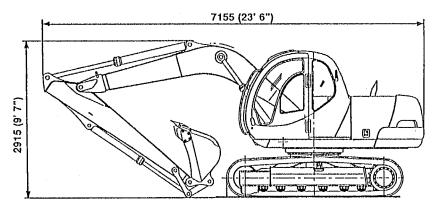


• SK100 v with 4.26 m (14 ft) boom and 1.9 m (6 ft-3 in) short arm



LP-6-2

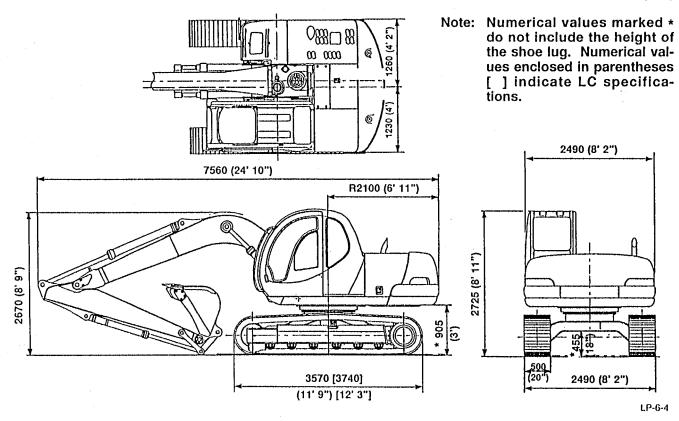
● SK100 v with 4.26 m (14 ft) boom and 2.7 m (8 ft-10 in) long arm



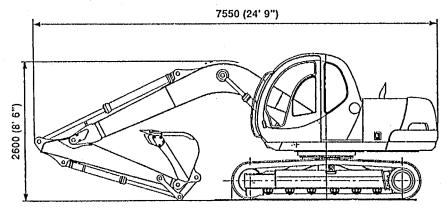
LP-6-3

● SK120 v AND SK120Lc v with 4.6 m (15 ft-1 in) boom and 2.5 m (8 ft-2 in) standard arm

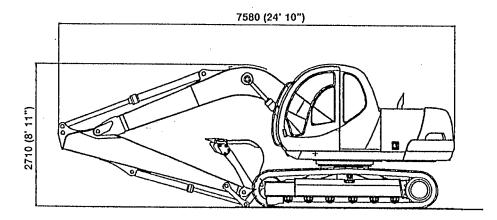
Unit: mm (ft-in)



● SK120 v AND SK120Lc v with 4.6 m (15 ft-1 in) boom and 2.1 m (6 ft-11 in) short arm



● SK120 v AND SK120 c v with 4.6 m (15 ft-1 in) boom and 3.0 m (9 ft-10 in) long arm



LP-6-5

LP-6-6

3. SPECIFICATIONS AND PERFORMANCE

SPEED AND CLIMBING CAPABILITY

Model	SK100 v	SK120 v, SK120Lc v
Swing Speed (high/low) rpm	12/4	(
Travel Speed (high/low) km/h	7/1 km/h (4.3/0.6 mph)	←
Gradeability	70% (35°)	(

ENGINE

Model	SK100 v	SK120 v, SK120Lc v
Engine model	ISUZU 4BD1	ISUZU 4BD1T
Type .	4-cycle, water-cooled direct injection type diesel	4-cycle, water-cooled direct injection type with turbo charger
Number of Cylinder — Bore × Stroke	4—102 mm × 118 mm (4 in. × 4.64 in.)	←
Total displacement	3856 c.c. (235 cuin)	(
Rated Output/Rotation Speed	76 PS / 2300 rpm	85 PS / 2100 rpm
Maximum Torque/Rotation Speed	24 kgf·m / 1600 rpm	30.5 kg·m / 1600 rpm

• HYDRAULIC COMPONENTS

Model	SK100 v	SK120 v, SK120Lc v
Hydraulic Pump	Double-pump variable displacement axial piston + gear pump	<u>←</u>
Hydraulic Motor (swing)	Axial piston motor	←
Hydraulic Motor (Travel)	Axial piston motor	←
Control Valve	6-section multiple control valve	(
Cylinder (boom, arm, and bucket)	Double action cylinder	←
Oil Cooler	Air-cooled type	←

WEIGHT

Unit: kg (lbs)

Model Item	SK100 v	SK120 v	SK120Lc v
Fully equipped Weight	10600 (23400)	11800 (26000)	12000 (26400)
Upper Frame machinery	4650 (10250)	5500 (12100)	·
Lower Frame machinery with 500mm [20 in] grouser shoe	4000 (8820)	4150 (9150)	4350 (9590)
Attachment 4.26 m (14 ft) boom + 2.22 m (7 ft-3 in) arm + 0.4 m³ (0.52 cuyd) bucket	1950 (4300)	_	
Attachment 4.6 m (15 (t-1 in) boom + 2.5 m (8 (t-2 in) arm + 0.45 m³ (0.59 cuyd) bucket		2150 (4740)	←

4. TYPE OF SHOES

Shape		Model	Shoe Width mm (in.)	Total Width of Crawler mm (It-in)	Ground Pressure kg/cm² (psi
Grouser Shoe			500 (20)	2490 (8' 2")	0.37 (5.26)
		SK100 v	600 (24)	2590 (8' 6")	0.32 (4.55)
		41 links	700 (27)	2690 (8' 10")	0.28 (3.98)
_			500 (20)	2490 (8' 2")	0.39 (5.55)
	_	SK120 v	600 (24)	2590 (8' 6")	0.33 (4.69)
The state of the s	>	44 links	700 (27)	2690 (8' 10")	0.29 (4.12)
The state of the s			500 (20)	2490 (8' 2")	0.37 (5.26)
4		SK120Lc v	600 (24)	2590 (8' 6")	0.31 (4.41)
	LP-6-7	46 links	700 (27)	2690 (8' 10")	0.27 (3.84)
Flat Shoe		SK100 v 41 links	500 (20)	2490 (8' 2")	0.38 (5.40)
		SK120 v 44 links	500 (20)	2490 (8' 2")	0.39 (5.55)
	LP-6-8	SK120.c-v 46 links	500 (20)	2490 (8' 2")	0.37 (5.26)
Triangular Shoe		SK100 v 41 links	800 (32)	2790 (9' 2")	0.24 (3.41)
		SK120 v 44 links	800 (32)	2790 (9' 2'')	0.25 (3.56)
	LP-6-9	SK120Lc v 46 links	800 (32)	2790 (9 [°] 2'')	0.24 (3.41)
Rubber Pad Shoe		SK100 v 41 links	500 (20)	2490 (8' 2")	0.39 (5.55)
المردوق والمراد والمرا		SK120 v 44 links	500 (20)	2490 (8' 2")	0.40 (5.69)
The state of the s	LP-6-10	SK200Lc v 46 links	500 (20)	2490 (8' 2")	0.38 (5.40)
Rubber shoe	LP-6-11	SK100 v	500 (20)	2490 (8' 2")	0.37 (5.26)
		SK120 v	500 (20)	2490 (8' 2")	0.38 (5.40)

Note: Use grouser shoes 500 mm (20 in) on rough ground (areas covered with rocks and gravel). If you drive or excavate with other shoes, this may cause shoe bending, shoe bolt looseness, and track assembly (link, roller, etc.) damage.

5. TYPES OF BUCKET

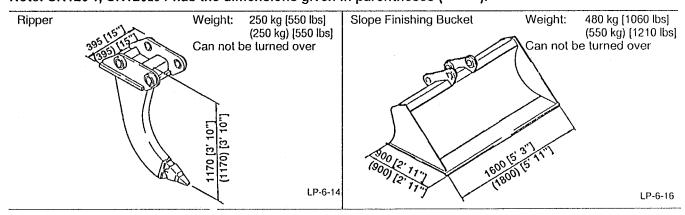
SK100 v

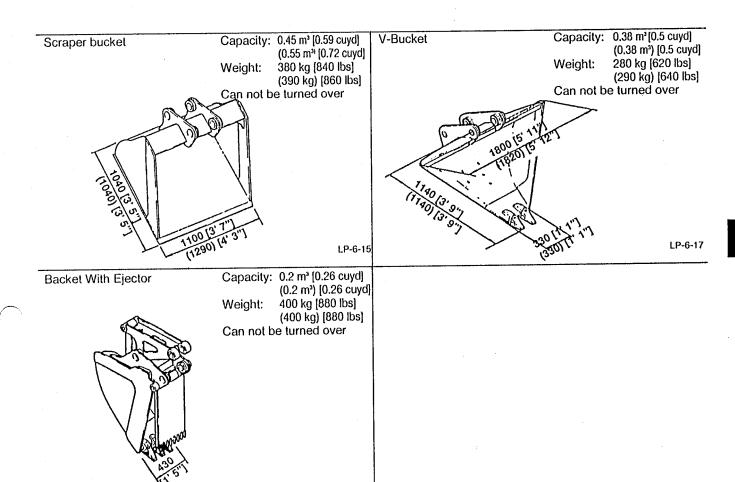
Hoe Bucket	1 ' '	Outside Width of Bucket mm (ft-in)			Equipped with	Can be	Weight
A	m³ (cuyd)	with side cutters	without side cutters	of Teeth	Side Cutters	Turned over	kg (lbs)
	0.15 (0.20)		450 (1' 6")	3	No	Yes	200 (440)
	0.21 (0.27)	600 (2')	500 (1' 8")	3	Yes	Yes	250 (550)
	0.26 (0.34)	700 (2' 4")	600 (2')	3	Yes	Yes	280 (620)
	0.32 (0.42)	800 (2' 7")	700 (2' 4")	4	Yes	Yes	310 (680)
A STATE OF THE STA	0.4 (0.52) (STD)	950 (3' 1")	850 (2' 9")	4	Yes	Yes	340 (750)
47.	0.45 (0.59)	1000 (3' 3")	900 (2'11")	5	Yes	Yes	360 (790)
LP-6-			_				

SK120v, SK120LCV

Hoe Bucket		Outside Width of Bucket mm (ft-in)			Equipped with	Can be	Weight
LP-6-13	m³ (cuyd)	with side cullers	wilhout side cutters	of Teeth	Side Cutters	Turned over	kg (lbs)
	0.22 (0.28)	600 (2')	500 (1' 8")	3	Yes	Yes	270 (600)
	0.27 (0.35)	700 (2' 4")	600 (2')	3	Yes	Yes	290 (640)
	0.33 (0.43)	800 (2' 7")	700 (2' 4")	4	Yes	Yes	320 (700)
	0.4 (0.52)	900 (2'11")	800 (2' 9")	4	Yes	Yes	340 (750)
	0.45 (0.59) (STD)	1000 (3′ 3″)	900 (2'11")	5	Yes	Yes	370 (820)
	0.5 (0.65)	1100 (3' 7")	1000 (3' 3")	5	Yes	Yes	400 (880)
	0.6 (0.78)	_	1150 (3' 9")	5	Yes	Yes	390 (860)

Note: SK120 v, SK120Lc v has the dimensions given in parentheses ().





6. COMBINATION OF ATTACHMENTS

LP-6-18

SK100 v

		Bucket		Applicable Arm				
Туре	JIS heaped capacity m³ (cuyd)	SAE heaped capacity m³ (cuyd)	JIS, SAE struck capacity m³ (cuyd)	1.9 m (6 ft-3 in) Arm (short)	2.22 m (7 ft-3 in) Arm (STD)	2.7 m (8 ft-10 in) Arm (long)	2.22 m (7 ft-3 in) +0.6 m (2 ft) Extension Arm	
	0.15 (0.20)	0.17 (0.22)	0.13 (0.17)	0	0	0	0	
	0.21 (0.27)	0.23 (0.30)	0.19 (0.25)	()	0	0	0	
	0.26 (0.34)	0.30 (0.39)	0.22 (0.29)	0	0	0	0	
Hoe Bucket		0.37 (0.48)	0.27 (0.35)	0	0	0	Δ	
	0.4 (0.52) (STD)	0.45 (0.59)	0.35 (0.46)	0	0	Δ	×	
	0.45 (0.59)	0.52 (0.68)	0.38 (0.50)	0	Δ	×	×	
Bucket with ejector	0.20 (0.26)	0.22 (0.29)	0.19 (0.25)	0	0	0	0	
Slope Finishing Bucket	Width × Depth 1.6 m × 0.9 m (5' 3" × 2' 11")		· ·	Δ	Δ	Δ	Δ	
Ripper		- .	-	0	0	×	×	
V-Bucket	0.38 (0.50)	0.46 (0.60)	0.30 (0.39)	Δ	Δ	Δ	Δ	
Scraper Bucket	0.45 (0.59)	0.51 (0.67)	0.38 (0.50)	Δ	Δ	Δ	Δ	
Breaker				0	0	×	×	

SK120 v, **SK120**LC v

Bucket			Applicable Arm				
Туре	JIS heaped capacity m³ (cuyd)	SAE heaped capacity m³ (cuyd)	JIS, SAE struck capacity m³ (cuyd)	2.1 m (6 ft-11 in) Arm (short)	2.5 m (8 ft-2 in) Arm (STD)	3.0 m (9 ft-10 in) Arm (long)	2.5 m (8 ft-2 in) +1.0 m (3 ft-3 in) Extension Arm
	0.22 (0.29)	0.24 (0.31)	0.20 (0.26)	. 0	0	0	0
	0.27 (0.35)	0.31 (0.41)	0.23 (0.30)	0	0	0	0
	0.33 (0.43)	0.38 (0.50)	0.28 (0.37)	0	0	0	Δ
Hoe Bucket	0.40 (0.52)	0.45 (0.59)	0.35 (0.46)	0	0	Δ	×
0.45 (0.59 (STD)	0.45 (0.59) (STD)	0.52 (0.68)	0.38 (0.50)	0	0	×	×
	0.50 (0.65)	0.57 (0.75)	0.43 (0.56)	0	Δ	×	×
	0.60 (0.78)	0.70 (0.91)	0.50 (0.68)	Δ	×	×	×
Slope Finishing Bucket	Width × Depth 1.8 m × 0.9 m (5' 11" × 2' 11")			Δ	Δ	Δ	Δ
V-Bucket	0.38 (0.50)	0.46 (0.60)	0.30 (0.39)	Δ	Δ	Δ	Δ
Scraper Bucket	0.55 (0.72)	0.65 (0.85)	0.42 (0.55)	Δ	Δ.	Δ	Δ
Breaker				0	0	×	×

Legend

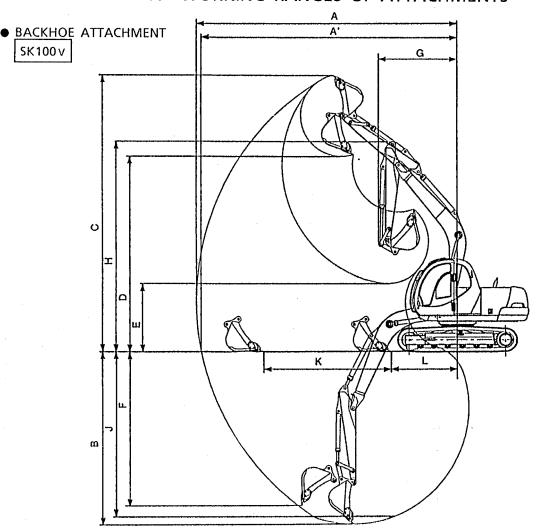
- Standard combination
- O General operation: Excavation or loading of sand, gravel, and clay
- △ Light operation: Mainly loading of loose gravel (e.g., cultivation or loading of sand or gravel)
- × Prohibited combination: KOBELCO's warranty does not cover any damages resulting from theses combinations. Do not use these combinations.

Install only genuine attachment recommended by KOBELCO on the machine. KOBELCO is not liable for any damages to the machine or attachment arising from the installment of attachment other than the specified attachments.

A CAUTION

• If any other bucket, except for the backhoe bucket, is turned over and used for excavation, damage to the arm and bucket may occur.

7. WORKING RANGES OF ATTACHMENTS

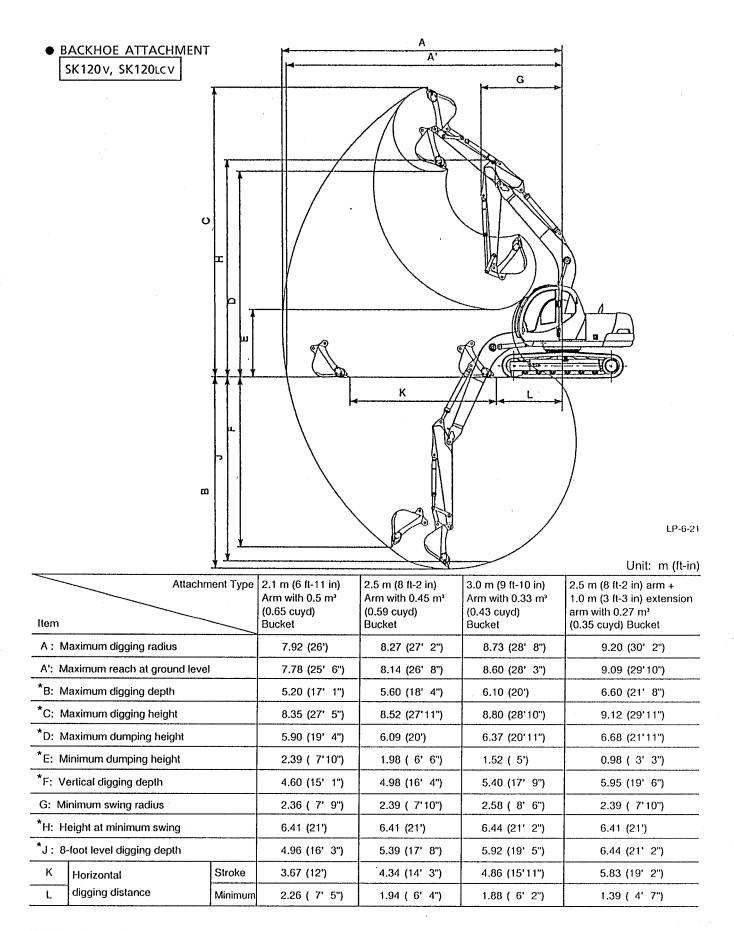


LP-6-19

Unit: m (ft-in)

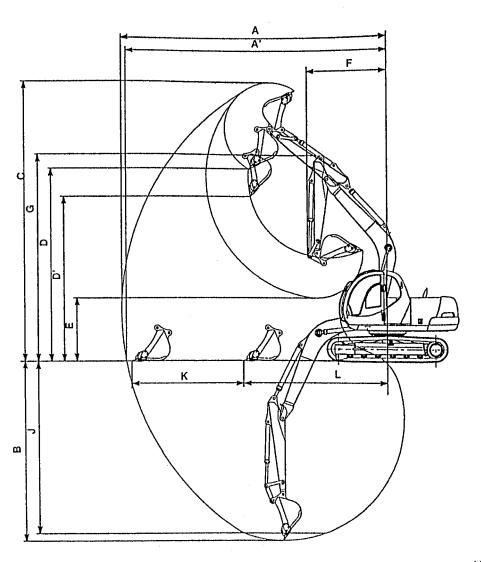
Item	Attachment Type	1.9 m (6 ft-3 in) Arm with 0.45 m³ (0.59 cuyd) Bucket	2.22 m (7 ft-3 in) Arm with 0.4 m ³ (0.52 cuyd) Bucket	2.7 m (8 ft-10 in) Arm with 0.32 m³ (0.42 cuyd) Bucket	2.22 m (7 ft-3 in) arm + 0.6 m (2 ft) extension arm with 0.26 m ³ (0.34 cuyd) Bucket
A: Maximum digging radiu	s	7.40 (24' 3")	7.70 (25' 3")	8.16 (26' 9")	8.27 (27' 2")
A': Maximum reach at grou	nd level	7.26 (23'10")	7.56 (24'10")	8.03 (26' 4")	8.14 (26' 8")
*B: Maximum digging depth	1	4.78 (15' 8")	5.10 (16' 9")	5.58 (18' 4")	5.70 (18' 8")
*C: Maximum digging heigh	nt	7.82 (25' 8")	8.04 (26' 5")	8.35 (27' 5")	8.41 (27' 7")
*D: Maximum dumping height		5.44 (17'10")	5.65 (18' 6")	5.96 (19' 7")	6.02 (19' 9")
*E: Minimum dumping height		2.32 (7' 7")	1.99 (6' 6")	1.54 (5' 1")	1.39 (4' 7")
*F: Vertical digging depth		4.23 (13'11")	4.56 (15')	5.02 (16' 6")	5.11 (16' 9")
G: Minimum swing radius		2.39 (7'10")	2.34 (7' 8")	2.56 (8' 5")	2.38 (7'10")
*H: Height at minimum swir	ng	6.11 (20' 1")	6.09 (20')	6.11 (20' 1")	6.09 (20')
*J: 8-foot level digging depth		4.51 (14'10")	4.86 (15'11")	5.38 (17' 8")	5.50 (18' 1")
K Horizontal Stroke		3.18 (10' 5")	3.76 (12' 4")	4.33 (14' 2")	4.65 (15' 3")
L digging distance	Minimum	2.25 (7' 5")	1.97 (6' 6")	1.86 (6' 1")	1.65 (5' 5")

NOTE: Dimensions marked * do not include the height of the shoe lug.



NOTE: Dimensions marked * do not include the height of the shoe lug.

FACE SHOVEL



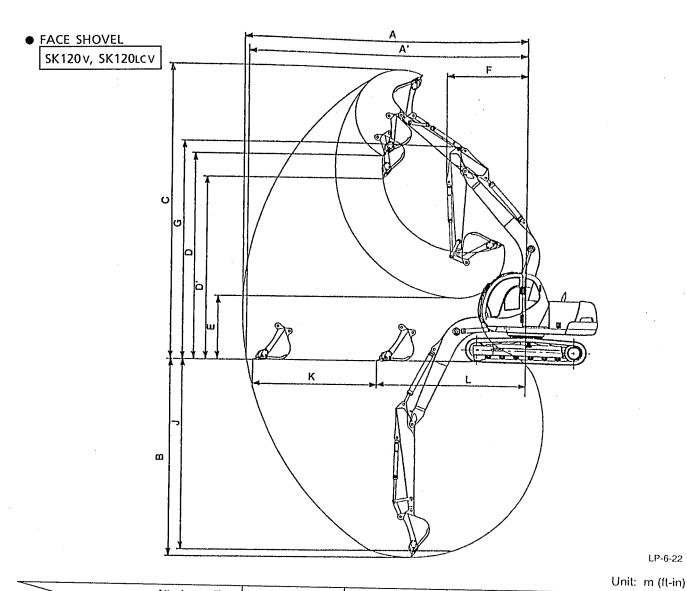
Unit: m (ft-in)

LP-6-20

					Other the (it in)
Attachment Type		1.9 m (6 ft-3 in) Arm with 0.45 m³ (0.59 cuyd) Bucket	2.22 m (7 ft-3 in) Arm with 0.4 m³ (0.52 cuyd) Bucket	2.7 m (8 ft-10 in) Arm with 0.32 m³ (0.42 cuyd) Bucket	2.22 m (7 ft-3 in) arm + 0.6 m³ (2 ft) extension arm with 0.26 m³ (0.34 cuyd) Bucket
A: Maximum digging radius		7.55 (24' 9")	7.85 (25' 9")	8.31 (27' 3")	8.42 (27' 7")
A': Maximum reach at ground level	7.40 (24' 3")	7.71 (25' 4")	8.18 (26'10")	8.29 (27' 2")	
*B: Maximum digging depth	4.92 (16' 2")	5.24 (17' 2")	5.72 (18' 9")	5.84 (19' 2")	
*C: Maximum digging height	8.00 (26' 3")	8.21 (26'11")	8.53 (28')	8.59 (28' 2")	
*D: Maximum dumping height		5.40 (17' 9")	5.66 (18' 7")	5.98 (19' 7")	5.99 (19' 8")
*D': Minimum dumping height (45°)	4.95 (16' 3")	4.86 (15'11")	5.03 (16' 6")	5.25 (17' 3")	
*E: Maximum dumping height		2.18 (7' 2")	1.84 (6')	1.39 (4' 7")	1.24 (4' 1")
F: Maximum swing radius		2.39 (7'10")	2.34 (7' 8")	2.56 (8' 5")	2.38 (7'10")
*G: Height at minimum swing		6.11 (20' 1")	6.09 (20')	6.11 (20' 1")	6.09 (20')
*J: 8-foot level digging depth		4.67 (15' 4")	5.02 (16' 6")	5.53 (18' 2")	5.66 (18' 7")
K Horizontal Stroke		2.70 (8'10")	3.29 (10'10")	4.15 (13' 7")	4.34 (14' 3")
	Minimum	4.55 (14'11")	4.26 (14')	3.87 (12' 8")	3.79 (12'5")

NOTE: Dimensions marked * do not include the height of the shoe lug.

Full download: http://manualplace.com/download/kobelco-sk100v-sk120v-sk120lcv-hydraulic-excavator-book-code-no-s51p00



LP-6-22

Attachment T	rpe 2.1 m (6 ft-11 in) Arm with 0.5 m³ (0.65 cuyd) Bucket	2.5 m (8 (t-2 in) Arm with 0.45 m³ (0.59 cuyd) Bucket	3.0 m (9 ft-10 in) Arm with 0.33 m³ (0.43 cuyd) Bucket	2.5 m (8 ft-2 in) arm + 1.0 m (3 ft-3 in) extension arm with 0.27 m ³ (0.35 cuyd) Bucket
A: Maximum digging radius	8.05 (26' 5")	8.40 (27' 7")	8.86 (29' 1")	9.34 (30' 8")
A': Maximum reach at ground level	7.92 (26')	8.27 (27' 2")	8.74 (28' 8")	9.22 (30' 3")
*B: Maximum digging depth	5.33 (17' 6")	5.73 (18'10")	6.23 (20' 5")	6.73 (22' 1")
*C: Maximum digging height	8.51 (27'11")	8.69 (28' 6")	8.97 (29' 5")	9.28 (30' 5")
*D: Maximum dumping height	5.91 (19' 5")	6.06 (19'11")	6.33 (20' 9")	6.66 (21'10")
*D': Minimum dumping height (45°)	5.27 (17' 3")	5.39 (17' 8")	5.59 (18'4")	5.74 (18'10")
*E: Maximum dumping height	2.26 (7' 5")	1.86 (6' 1")	1.39 (4' 7")	0.85 (2' 9")
F: Maximum swing radius	2.36 (7' 9")	2.39 (7'10")	2.58 (8' 6")	2.39 (7'10")
*G: Height at minimum swing	6.41 (21')	6.41 (21')	6.44 (21' 2")	6.41 (21')
*J: 8-foot level digging depth	5.11 (16' 9")	5.53 (18' 2")	6.05 (19'10")	6.57 (21' 7")
K Horizontal Stroke	3.02 (9'11")	3.66 (12')	4.54 (14' 11")	5.54 (18' 2")
L digging distance Minim	ım 4.72 (15' 6")	4.42 (14' 6")	4.00 (13' 1")	3.49 (11' 5")

NOTE: Dimensions marked * do not include the height of the shoe lug.