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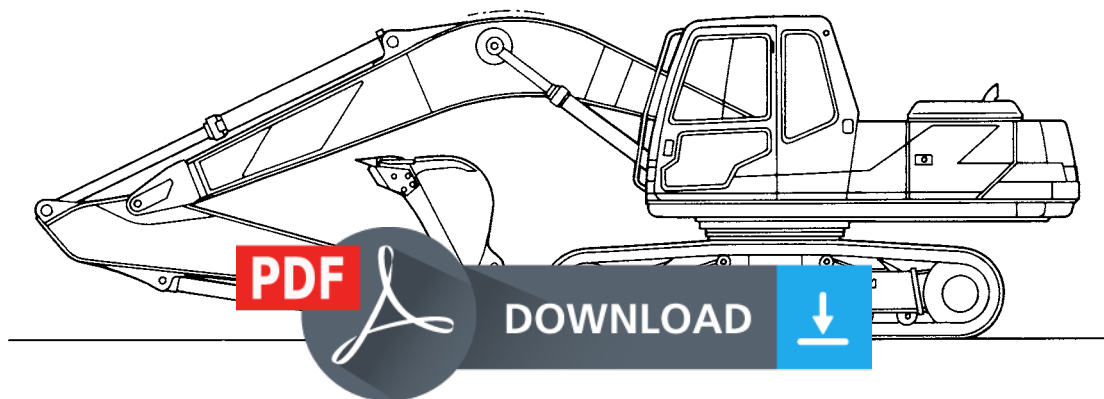
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KOBELCO

Hydraulic Excavator

MARK III
SERIES

SERVICEMAN HANDBOOK



 **KOBE STEEL, LTD.**

· PRINTED IN JAPAN
1990.10

APPLIED MACHINES

This serviceman's handbook provides essential information regarding the following models of excavator.

SK 60

SK 100

SK 120

SK 120_{LC}

SK 200

SK 200_{LC}

SK 220

SK 220_{LC}

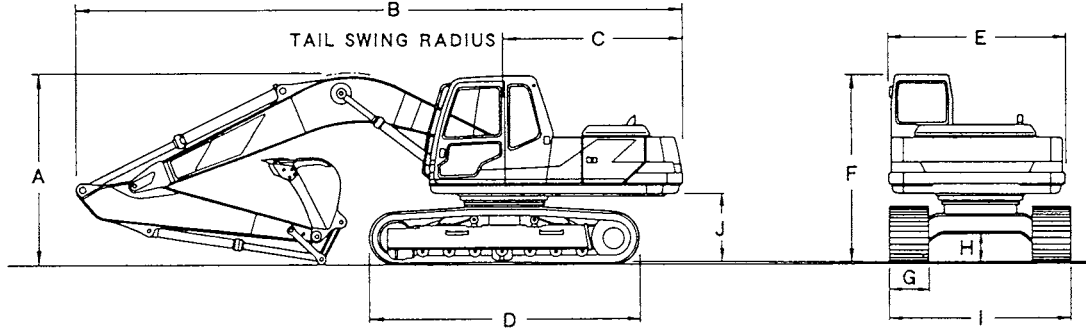
PREFACE

This serviceman's handbook for the KOBELCO hydraulic excavator provides maintenance and repair personnel with basic information concerning routine maintenance and repair of the KOBELCO machine.

This handbook is compiled for the user's convenience using extracts mainly from the Operators and Shop Manuals.

For inspection and maintenance of the machine in the field, use this handbook as a reference to improve your work efficiency.

DIMENSIONS



MODEL	DIMENSIONS											Unit: mm (ft-in)				
	A	B	C	D	E	F	G	H	I	J	ARM					
SK60	2,950 (9' 8.1")	6,005 (19' 8.4")	(R1,700) (R5' 6.9")	2,770 (9' 1.0")	2,160 (7' 1.0")	2,595 (8' 6.1")	400 (15.7")	380 (1' 2.9")	2,100 (6' 10.6")	770 (2' 6.3")	2,150 (7' 11")					
	2,610 (8' 6.7")	6,020 (19' 9.0")					500 (19.6")		2,200 (7' 2.5")		1,730 (5' 8")					
	2,815 (9' 2.8")	6,020 (19' 9.0")					600 (23.6")		2,300 (7' 6.5")		1,730 + 450 (5' 8" + 1' 6")					
SK100	2,570 (8' 5.2")	7,240 (23' 9.0")	R2,130 (R7' 0")	3,320 (10' 11.0")	2,430 (7' 12.0")	2,725 (8' 11.2")	500 (19.6")	455 (1' 6.0")	2,490 (8' 2.0")	900 (2' 11.4")	2,270 (7' 5")					
	2,570 (8' 5.2")	7,290 (23' 11.0")					600 (23.6")		2,590 (8' 6.0")		1,900 (6' 3")					
	2,900 (9' 6.1")	7,180 (23' 6.6")					700 (27.6")		2,690 (8' 10.0")		2,770 (9' 1")					
	2,835 (9' 3.6")	7,195 (23' 7.2")					800 (31.5")		2,790 (9' 2.0")		2,270 + 600 (7' 5" + 1' 11")					
SK120 SK120LC	2,650 (8' 8.3")	7,595 (24' 11.0")	R2,150 (R7' 0.6")	3,490 (11' 5.4")	2,430 (7' 11.6")	2,725 (8' 11.2")	500 (19.6")	455 (1' 6.0")	2,490 (8' 2.0")	900 (2' 11.4")	2,500 (8' 2")					
	2,595 (8' 6.1")	7,585 (24' 10.6")					600 (23.6")		2,590 (8' 6.0")		2,100 (6' 11")					
	3,035 (9' 8.1")	7,550 (24' 9.2")					700 (27.6")		2,690 (8' 10.0")		3,000 (9' 10")					
	3,065 (10' 0.6")	7,530 (24' 8.4")					800 (31.5")		2,790 (9' 2.0")		2,500 + 1,000 (8' 2" + 3' 3")					
SK200 SK200LC	3,060 (10' 0.4")	9,380 (30' 9.3")	R2,700 (R8' 10.3")	4,070 (13' 4.2")	2,720 (8' 11.0")	2,890 (9' 5.7")	600 (23.6")	465 (1' 6.3")	2,800 (9' 2.2")	1,055 (3' 5.5")	2,400 (7' 11")					
	2,910 (9' 6.5")	9,320 (30' 7.0")					800 (31.5")		3,000 (9' 10.1")		2,940 (9' 7")					
	2,860 (9' 4.6")	9,310 (30' 6.5")					900 (35.4")		3,190 (10' 5.6")		3,300 (10' 10")					
	3,730 (12' 2.8")	9,210 (30' 2.6")					4,450 (14' 7.2")		3,190 (10' 5.6")		2,400 + 1,500 (7' 11" + 4' 11")					
	3,450 (11' 3.8")	9,310 (30' 6.5")									2,940 + 1,500 (9' 8" + 4' 11")					
SK220 SK220LC	3,210 (10' 6.3")	10,070 (33' 0.4")	R2,850 (R9' 4.2")	4,350 (14' 3.2")	2,830 (9' 3.4")	2,920 (9' 7.0")	600 (23.6")	480 (1' 6.7")	2,990 (9' 9.7")	1,080 (3' 6.5")	2,500 (8' 2")					
							700 (27.6")		3,090 (10' 1.6")							
							800 (31.5")		3,190 (10' 5.6")							
	3,070 (10' 0.8")	9,980 (32' 9.0")					4,650 (15' 3.0")	4,650 (15' 3.0")	2,830 (9' 3.4")		2,920 (9' 7.0")	600 (23.6")	465 (1' 6.3")	3,190 (10' 5.6")	1,080 (3' 6.5")	2,980 (9' 9")
												700 (27.6")		3,290 (10' 9.5")		
												800 (31.5")		3,390 (11' 1.4")		3,660 (12' 0")

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MACHINE SPECIFICATIONS

Item	Model	SK60			
Std. bucket capacity	M ³ (cuyd)	0.25 (0.33)			
Range of bucket	M ³ (cuyd)	0.1~0.3 (0.13~0.39)			
Overall weight	ton (lbs)	6.4 (400 mm shoe) [14,110 (16" shoe)]			
Performance	Swing speed	rpm	13		
	Travel speed	km/h(M/h)	3.7/5.5 (2.3/3.4)		
	Gradeability	%	70 (35°)		
	Digging Force	Bucket	ton (lbs)	4.8 (10,580)	
		Arm	ton (lbs)	3.7 (8,160)	
		Arm length	mm (in)	1,730 (5' 8.1")	
Tractive force	ton (lbs)	5.2 (11,460)			
General dimensions	Arm length	mm (in)	1,730 (5' 8.1")	2,150 (7' 0.6")	
	Overall length	mm (in)	6,020 (19' 9.0")	6,005 (19' 8.4")	
	Overall width	mm (in)	2,180 (7' 1.8")	2,180 (7' 1.8")	
	Overall height	mm (in)	2,610 (8' 6.7")	2,610 (8' 6.7")	
	Ground clearance of undercarriage	mm (in)	380 (15")	380 (15")	
Track	Overall length of crawler	mm (in)	2,770 (9' 1.0")		
	Center distance of tumblers	mm (in)	2,160 (7' 1.0")		
	Center distance of crawler	mm (in)	1,700 (5' 6.9")		
	Width of track shoe	mm, kg/cm (in, psi)	Grouser (Equal height)	400/0.34 (16" / 4.83)	
				500/0.27 (20" / 3.83)	
	Ground pressure		Flat	600/0.23 (24" / 3.27)	
				400/0.34 (16" / 4.83)	
Triangle				600/0.23 (24" / 3.27)	
	700/0.20 (27.6" / 2.84)				
Engine	Maker/Model		ISUZU 4JB1		
	Type		Water-cooled 4-cycle, direct injection type		
	Rated output power	ps/rpm	75/2,200		
	Maximum torque	kgm/rpm	18/1,800		
	Number of cylinder -- Bore × Stroke	mm (in)	4 - 93 × 102 (4 - 3.66" × 4.02")		
	Total displacement	cc (cuin)	2,771 (169)		
	Fuel consumption	g/psh	170		
	Dry weight	kg (lbs)	240 (530)		
	Fuel tank capacity	L (gal)	130 (24)		



Thank you very much
for your reading.
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to get more information.