KOBELCO

SERVICEMAN HANDBOOK

HYDRAULIC EXCAVATOR

K903-II

K904-II, K904L-II

K905-II, K905LC-II

K907-II, K907LC-II

K909-II, K909LC-II

K912-II, K912LC-II

K916-II, K916LC-II

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Specifications

Item			Unit	K903-II		K904-II		K904L-II		K905-II		K905LC-II	
Std. bucket capacity			m³ (cuyd)	0.3	(0.39)	0.4		(0.52)		0.45		(0.59)	
Range of bucket			m³ (cuyd)	0.1~0.35	(0.13~0.46)	0.15~0.45		(0.20~0.59)		0.3~0.5		(0.39~0.70)	
Overall weight			(lbs) Ton	[16550 (16" Shoe)] 8.0(600mmShoe)		[22[illegible] (20"Shoe)] 10.3(500mmShoe)		[28468 (20"Shoe)] 13.9(500mmShoe)		[28000 (20"Shoe)] 13.5(500mmShoe)		[28[illegible] (20"Shoe)] 13.8(500mmShoe)	
Performance	Swing Speed		rpm	13.8		13.7				13.7			
	Travel speed		km/h(MPH)	3.3		4/5.5		(2.5/3.4)		4/5.5		(2.5/3.4)	
	Gradeability		%	70(35°)		70(35°)				70(35°)			
	Digging force	Bucket	ton (lbs)	4.5	(9920)	7.3		(16090)		7.5		(16530)	
		Arm	ton (lbs)	3.5 (7720)	3.6 (7930)	6.2 (13670)		6.4 (14110)	6.7 (14770)	6.8 (14990)		6.8 (15010)	6.3 (13890)
		Arm length	m (in)	1.700 (5'6")	2.100(6'10")	1.900 (6'2")		2.270 (7'5")	2.770 (9'1")	2.100 (6'10")		2.500 (8'2")	3.000 (9'10")
	Tractive force		ton (lbs)	6.8	(15040)	8.1/8.9		(17841/19620)		8.5/9.3		(18697/20502)	
General dimension	Arm length		m (in)	1.700 (5'6")	2.100(6'10")	1.900 (6'2")		2.270 (7'5")	2.770 (9'1")	2.100 (6'10")		2.500 (8'2")	3.000 (9'10")
	Overall length		m (in)	5.800(19'0")	5.850 (19'2")	7.200 (23'7")		7.200 (23'7")	7.240 (23'9")	7.610 (24'11")		7.610 (25'0")	7.660 (24'10)
	Overall width		m (in)	2.250 (7'4")	2.250 (7'4")	2.490 (8'2")		2.490 (8'2")	2.490 (8'2")	2.490 (8'2")		2.490 (8'2")	2.490 (8'2")
	Overall height		m (in)	2.570 (8'5")	2.570 (8'5")	2.505 (8'2")		2.530 (8'3")	2.860 (9'4")	2.720 (8'11")		2.720 (8'11")	3.090 (9'10")
	Grund clearance of undercarriage		m (in)	400 (15.7")	400 (15.7")	400 (15.7")		400 (15.7")	400 (15.7")	400 (15.7")		400 (15.7")	400 (15.7")
Track	Overall length of Crawler		m (in)	2.750	(9'0")	3.320	(10'10")	3.770	(12'4")	3.485	(11'5")	3.720	(12'2")
	Center distance of fundlers		m (in)	2.150	(7'1")	2.810	(9'6")	2.955	(9'8")	2.720	(8'11")	2.860	(9'8")
	Center distance of crawler		m (in)	1.900	(5'10")	1.890	(6'6")	2.040	(6'8")	1.890	(6'4")	1.890	(6'6")
	Width of track shoe	(ft-in, psi)		Grouser (Equal height)	(16"/5.07) 400/0.35	Grouser (Equal height)	(20"/5.12) 500/0.38	Grouser (Equal height)	(20"/5.80) 500/0.34	Grouser (Equal height)	(20"/5.40) 500/0.38	Grouser (Equal height)	(20"/5.25) 500/0.37
					(20"/4.12) 500/0.29		(24"/5.28) 600/0.38		(24"/4.12) 600/0.29		(24"/4.52) 600/0.32		(24"/4.61) 600/0.32
					(24"/5.53) 600/0.25		(27"/5.70) 700/0.26		(27"/5.32) 700/0.25		(27"/5.98) 700/0.28		(27"/5.84) 700/0.27
	Ground pressure	kg/cm²		Flat	(16"/5.12) 400/0.36	Grouser (irregular height)	(27"/5.84) 700/0.27	Grouser (irregular height)	(27"/5.35) 700/0.25	Grouser (irregular height)	(27"/4.12) 700/0.29	Grouser (irregular height)	(27"/5.98) 700/0.28
				Triangle	(24"/5.41) 600/0.24	Flat	(20"/5.12) 500/0.38	Flat	(20"/5.80) 500/0.38	Flat	(20"/5.40) 500/0.28	Flat	(20"/5.55) 500/0.25
					(27"/5.98) 700/0.21	Triangle	(27"/5.27) 800/0.22	Triangle	(27"/5.98) 800/0.21	Triangle	(27"/5.61) 800/0.24	Triangle	(27"/5.27) 800/0.23
Engine	Make/Model			ISUZU(A)(B)		ISUZU(A)(B)				ISUZU(A)(B)			
	Type			Water-cooled, 4 cycle direct injection type diesel engine									
	Rated output power	Ps/rpm		55/2,200		76/2,300				85/2,150			
	Maximum torque	kgm/rpm		18/1,800		24/1,600				30/1,600			
	Number of cylinder-Bore × stroke	mm (in)		4-[illegible]×102 (4-3.8"×4.0")		4- 102 ×118 (4-4.0" ×4")				4-102 ×118 (4-4.0" ×4.6")			
	Total displacement	ℓ		3.771		3.856				3.856			
	Fuel consumption	g/ps·h		170		170				163			
	Dry weight	kg (lbs)		325	(685)	325		(716)		350		(771)	
	Fuel tank capacity	ℓ (gal)		130	(34.3)	150		(58.0)		150		(69.2)	

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ss		Model	K907-II		K907LC-II		K909-II	K909LC-II		
i.bucket capacity		㎥(cuyd)	0.7		(0.92)		0.9	(1.18)		
ype of bucket		㎥(cuyd)	0.45~1.1		(0.59~1.44)		0.7~1.2	(0.92~1.57)		
erall weight		(lbs) ton	(42780(24"Shoe)) 18.5(600mmShoe)		(43800(24"Shoe)) 19(600mmShoe)		(48600(24"Shoe)) 22.5(600mmShoe)	(50025(24"Shoe)) 22.1((600mmShoe)		
Swing speed		rpm	13				10.5			
Travel speed		km/h(MPH)	4/5.5		(2.5/3.4)		4/5.5	(2.5/3.4)		
Gradeability		%	70(35°)				70(35°)			
Digging Force	Bucket	ton (lbs)	11.8		(26250)		13.4	(29540)		
	Arm	ton (lbs)	8.8 (19600)				10.8 (23970)			
	Arm length	m (in)	2.960 (9'9")		2.960 (9'9")		2.980 (9'9")			
Tractive force		ton (lbs)	11/15.8		(24250/34800)		13.5/18.3	(29439/40043)		
Arm length		m (in)	2.960 (9'9")		2.960 (9'9")		2.980 (9'9")	2.980 (9'9")		
Overall length		m (in)	9.370 (30'9")		9.370 (30'9")		10.000 (32'9")	10.000 (32.9")		
Overall width		m (in)	2.990 (9'2")		2.990 (9'9")		2.990 (9'9")	3.190 (10'5")		
Overall hight		m (in)	2.910 (9'6")		2.910 (9'6")		3.020 (9'11")	3.020 (9'11")		
Ground clearance of undercarriage		m (in)	470 (18.5")		470 (18.5")		490 (19.2")	490 (19.2")		
Overall length of crawler		m (in)	4.070 (13'4")		4.420 (14'5")		4.250 (13'11")	4.600 (15'1")		
Center distance of sprockets		m (in)	3.210 (10'6")		3.560 (11'8")		3.200 (11'1")	3.760 (12'4")		
Center distance of crawler		m (in)	2.200 (7'3")		2.390 (7'10")		2.390 (7'10")	2.590 (8'5")		
Width of track shoe / Ground pressure		(ft-in. psi) m kg/cm²	Grouser	(24"/6.25) 600/0.44	Grouser	(24"/5.83) 600/0.41	Grouser (Equal height)	(24"/7.11) 600/0.50	Grouser (Equal height)	(24"/6.69) 600/0.47
			(Equal height)	(32"/4.83) 800/0.34	(Equal height)	(32"/4.48) 800/0.31		(28"/6.25) 700/0.44		(28"/5.83) 700/0.41
			Flat	(24"/6.48) 600/0.45	Flat	(24"/5.97) 600/0.42		(32"/5.04) 800/0.35		(32"/5.12) 800/0.36
			Triangle	(28"/4.12) 900/0.29	Triangle	(24"/3.98) 900/0.28				
Maker/Model			MITSUBISHI 6D31T				MITSUBISHI 6D31T			
Type			Water-cooled, 4 cycle direct injection type diesel engine							
Rated output power		Ps/rpm	125/2,150				155/2,150			
Maximum torque		kgm/rpm	44/1,700				58/1,800			
Number of cylinder-Bore X Stroke		m (in)	6-100 X108		(6-3.9"X4.1")		6-113 X115	(6-4.4"X4.5")		
Total displacement		cc	6,368				8,810			
Fuel consuption		g/ps h	180				172			
Dry weight		kg (lbs)	630		(947)		525	(1,157)		
Fuel tank capacity		L (gal)	300		(79.2)		310	(81.8)		

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