CEBM005700

Shop Manual Addendum

KOMATSU®

avance

PC200LL-6
PC220LL-6

LOGGING EXCAVATOR

SERIAL NUMBERS	PC200LL-6	A85001	and UP
	PC220LL-6	A85001	

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GRADE 5 AND 8 NON-PHOSPHATE COATED HARDWARE

Recommended torque for all standard application nuts and bolts, provided; all thread surfaces are clean and lubricated with SAE-30 engine oil or joints are rigid, that is, no gaskets or compressible materials are used. When reusing nuts or bolts, use minimum torque values.

THREAD	GRADE 5	
	N·m	lbf ft
1/4NC	8	6
1/4NF	9	7
5/16NC	18	13
5/16NF	20	15
3/8NC	33	24
3/8NF	37	27
7/16NC	52	38
7/16NF	57	42
1/2NC	79	58
1/2NF	88	65
9/16NC	114	84
9/16NF	126	93
5/8NC	156	115
5/8NF	175	130
3/4NC	278	205
3/4NF	312	240
7/8NC	414	305
7/8NF	454	334
1NC	617	455
1NF	691	510
1-1/8NC	827	610
1-1/8NF	929	685
1-1/4NC	1166	860
1-1/4NF	1295	955
1-3/8NC	1532	1130
1-3/8NF	1749	1290
1-1/2NC	2034	1400
1-1/2NF	2291	1690
1-3/4NC	3213	2370
2NC	4813	3550

THREAD	GRADE 8	
	N·m	lbf ft
1/4NC	12	9
1/4NF	15	11
5/16NC	24	18
5/16NF	28	21
3/8NC	46	34
3/8NF	52	38
7/16NC	73	54
7/16NF	81	60
1/2NC	111	82
1/2NF	122	90
9/16NC	163	120
9/16NF	179	132
5/8NC	224	165
5/8NF	251	185
3/4NC	393	290
3/4NF	434	320
7/8NC	617	455
7/8NF	698	515
1NC	942	695
1NF	1064	785
1-1/8NC	1342	990
1-1/8NF	1505	1110
1-1/4NC	1898	1400
1-1/4NF	2102	1550
1-3/8NC	2481	1830
1-3/8NF	2827	2085
1-1/2NC	3295	2430
1-1/2NF	3701	2730
1-3/4NC	5166	3810
2NC	7810	5760

Multiply the standard torque by 0.65 when finished jam nuts are used, 0.7 when molykote, white lead or similar mixture are used as lubricants, 0.75 when parkerized bolts or nuts are used, 0.85 when cadmium plated bolts or nuts and zinc bolts with waxed zinc nuts are used or 0.9 when hardened surfaces are used under the nut or bolt head. The general torque must be used in all cases where special torques are not given. Values listed in this manual are lubricated (wet) threads; values should be increased 1/3 for non lubricated (dry) threads.

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ELECTRIC WIRE CODE

In the wiring diagrams, various colors and symbols are employed to indicate the thickness of wires. This wire code table will help you understand WIRING DIAGRAMS.
Example: 05WB indicates a cable having a nominal number 05 and white coating with black stripe.

CLASSIFICATION BY THICKNESS

Nominal number	Copper wire			Cable O.D. (mm)	Current rating (A)	Applicable circuit
	Number of strands	Dia. Of strand (mm)	Cross section (mm)			
0.85	11	0.32	0.88	2.4	12	Starting, lighting, signal etc.
2	26	0.32	2.09	3.1	20	Lighting, signal etc.
5	65	0.32	5.23	4.6	37	Charging and signal
15	84	0.45	13.36	7.0	59	Starting (Glow plug)
40	85	0.80	42.73	11.4	135	Starting
60	127	0.80	63.84	13.6	178	Starting
100	217	0.80	109.1	17.6	230	Starting

CLASSIFICATION BY COLOR AND CODE

Priority	Circuits Classification		Charging	Ground	Starting	Lighting	Instrument	Signal	Other
1	Primary	Code	W	B	B	R	Y	G	L
		Color	White	Black	Black	Red	Yellow	Green	Blue
2	Auxiliary	Code	WR	—	BW	RW	YR	GW	LW
		Color	White & Red	—	Black & White	Red & White	Yellow & Red	Green & White	Blue & White
3		Code	WB	—	BY	RB	YB	GR	LR
		Color	White & Black	—	Black & Yellow	Red & Black	Yellow & Black	Green & Red	Blue & Red
4		Code	WL	—	BR	RY	YG	GY	LY
		Color	White & Blue	—	Black & Red	Red & Yellow	Yellow & Green	Green & Yellow	Blue & Yellow
5		Code	WG	—	—	RG	YL	GB	LB
		Color	White & Green	—	—	Red & Green	Yellow & Blue	Green & Black	Blue & Black
6		Code	—	—	—	RL	YW	GL	—
		Color	—	—	—	Red & Blue	Yellow & White	Green & Blue	—

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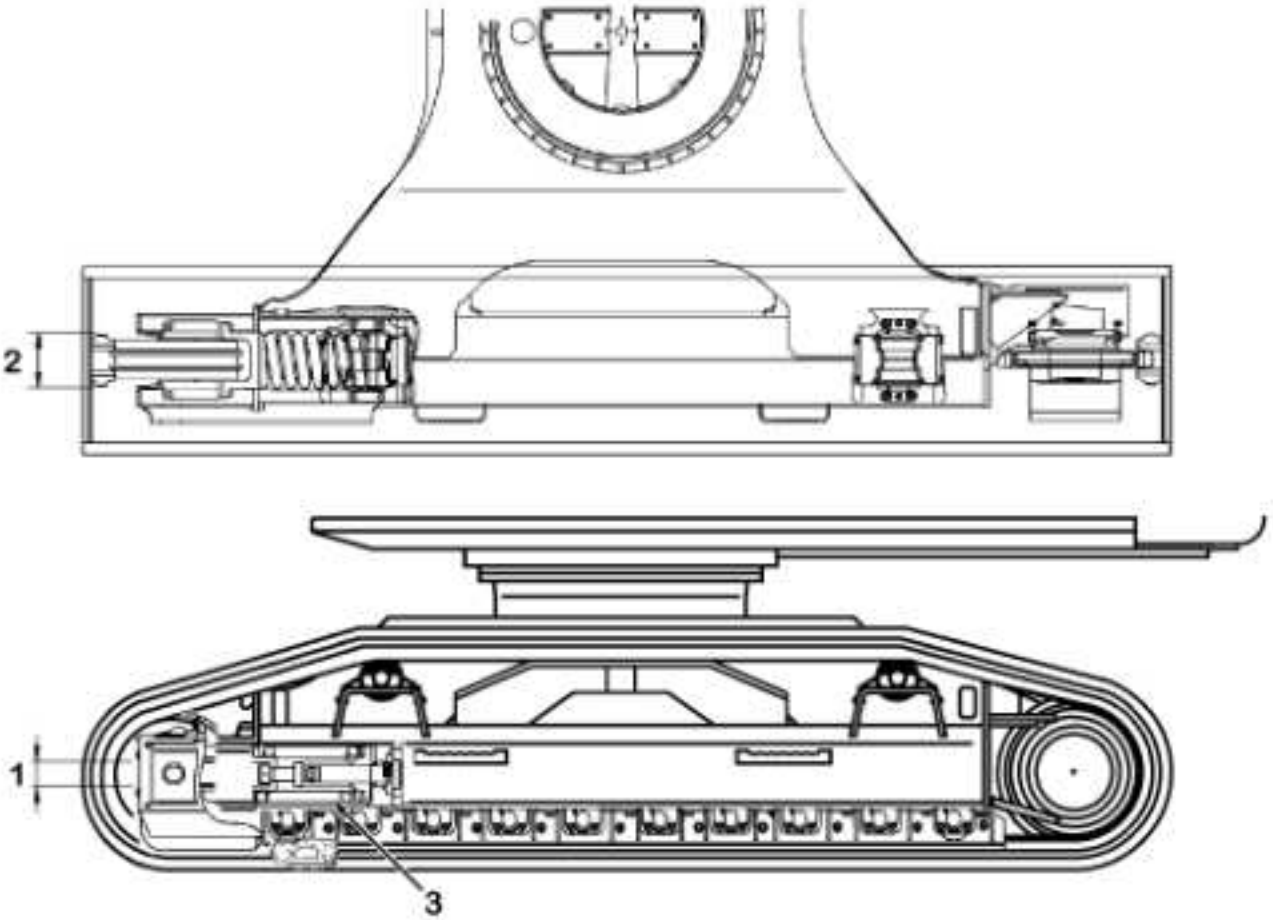
SPECIFICATIONS
PC200LL-6

Machine Model			PC200LL-6
Serial numbers			A85001 and up
Operating Weight (W/O work equipment)		(kg)	21,000
Performance	Swing speed	(rpm)	12.4
	Swing maximum slope angle (w/std work equipment)	(°.)	20
	Travel speed	(km/h)	Lo: 3.0 Mi: 4.1 Hi: 5.5
	Gradeability	(°.)	35
	Ground pressure (shoe width: 700 mm)	(kPa(kg/cm²))	37.27 (0.38)
Dimensions	Overall length (for transport)	(mm)	No KA work equipment
	Overall width	(mm)	3320
	Overall width of track	(mm)	3320
	Overall height (for transport)	(mm)	3230 (W/O RISER)
	Overall height to top of cab	(mm)	3230 (W/O RISER) 4610 (W RISER)
	Ground clearance of counterweight	(mm)	1340
	Minimum ground clearance	(mm)	711
	Tail swing radius	(mm)	2860
	Minimum swing radius of work equipment	(mm)	No KA work equipment
	Height of work equipment at minimum swing radius	(mm)	No KA work equipment
	Length of track on ground	(mm)	3805
	Track gauge	(mm)	2620
	Height of engine hood	(mm)	2580

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TRACK FRAME • RECOIL SPRING

★ The diagram shows the PC200LL-6



VESM0160
Unit: mm

No.	Check Item		Criteria					Remedy
				Standard size	Tolerance	Repair limit		
1	Vertical width of idler guide		Track frame	107				Rebuild or replace
			Idler support	105				
2	Horizontal width of idler guide		Track frame	250				
			Idler support	247.4				
3	Recoil spring		Standard size			Repair limit		Replace
			Free length X O.D.	Installed length	Installed load	Free length	Installed load	
		PC200LC PC220LC	603.5 X 239	466	12,900 kg	576	10,300 kg	

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