

SHOP MANUAL

KOMATSU

PC210-5

PC240-5

MACHINE MODEL

PC210,210LC-5KP

PC240,240LC,240NLC-5KP

SERIAL No.

K20001 and up

K20001 and up

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.
- PC210, 240-5KP mount the Perkins 1006-6T engine.
For details of the engine, see the Perkins 1000 Series Engine Shop Manual.

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IMPORTANT SAFETY NOTICE

Proper service and repair is extremely important for the safe operation of your machine. The service and repair techniques recommended by Komatsu and described in this manual are both effective and safe methods of operation. Some of these operations require the use of tools specially designed by Komatsu for the purpose.

To prevent injury to workers, the symbols  and  are used to mark safety precautions in this manual. The cautions accompanying these symbols should always be followed carefully. If any dangerous situation arises or may possibly arise, first consider safety, and take the necessary actions to deal with the situation.



SAFETY

GENERAL PRECAUTIONS

Mistakes in operation are extremely dangerous. Read the Operation and Maintenance Manual carefully BEFORE operating the machine.

1. Before carrying out any greasing or repairs, read all the precautions given on the decals which are fixed to the machine.
2. When carrying out any operation, always wear safety shoes and helmet. Do not wear loose work clothes, or clothes with buttons missing.
 - Always wear safety glasses when hitting parts with a hammer.
 - Always wear safety glasses when grinding parts with a grinder, etc.
3. If welding repairs are needed, always have a trained, experienced welder carry out the work. When carrying out welding work, always wear welding gloves, apron, glasses, cap and other clothes suited for welding work.
4. When carrying out any operation with two or more workers, always agree on the operating procedure before starting. Always inform your fellow workers before starting any step of the operation. Before starting work, hang UNDER REPAIR signs on the controls in the operator's compartment.
5. Keep all tools in good condition and learn the correct way to use them.

6. Decide a place in the repair workshop to keep tools and removed parts. Always keep the tools and parts in their correct places. Always keep the work area clean and make sure that there is no dirt or oil on the floor. Smoke only in the areas provided for smoking. Never smoke while working.

PREPARATIONS FOR WORK

7. Before adding oil or making any repairs, park the machine on hard, level ground, and block the wheels or tracks to prevent the machine from moving.
8. Before starting work, lower blade, ripper, bucket or any other work equipment to the ground. If this is not possible, insert the safety pin or use blocks to prevent the work equipment from falling. In addition, be sure to lock all the control levers and hang warning signs on them.
9. When disassembling or assembling, support the machine with blocks, jacks or stands before starting work.
10. Remove all mud and oil from the steps or other places used to get on and off the machine. Always use the handrails, ladders or steps when getting on or off the machine. Never jump on or off the machine. If it is impossible to use the handrails, ladders or steps, use a stand to provide safe footing.

PRECAUTIONS DURING WORK

11. When removing the oil filler cap, drain plug or hydraulic pressure measuring plugs, loosen them slowly to prevent the oil from spurting out.
Before disconnecting or removing components of the oil, water or air circuits, first remove the pressure completely from the circuit.
12. The water and oil in the circuits are hot when the engine is stopped, so be careful not to get burned.
Wait for the oil and water to cool before carrying out any work on the oil or water circuits.
13. Before starting work, remove the leads from the battery. Always remove the lead from the negative (–) terminal first.
14. When raising heavy components, use a hoist or crane.
Check that the wire rope, chains and hooks are free from damage.
Always use lifting equipment which has ample capacity.
Install the lifting equipment at the correct places. Use a hoist or crane and operate slowly to prevent the component from hitting any other part. Do not work with any part still raised by the hoist or crane.
15. When removing covers which are under internal pressure or under pressure from a spring, always leave two bolts in position on opposite sides. Slowly release the pressure, then slowly loosen the bolts to remove.
16. When removing components, be careful not to break or damage the wiring. Damaged wiring may cause electrical fires.
17. When removing piping, stop the fuel or oil from spilling out. If any fuel or oil drips on to the floor, wipe it up immediately. Fuel or oil on the floor can cause you to slip, or can even start fires.
18. As a general rule, do not use gasoline to wash parts. In particular, use only the minimum of gasoline when washing electrical parts.
19. Be sure to assemble all parts again in their original places.
Replace any damaged parts with new parts.
 - When installing hoses and wires, be sure that they will not be damaged by contact with other parts when the machine is being operated.
20. When installing high pressure hoses, make sure that they are not twisted. Damaged tubes are dangerous, so be extremely careful when installing tubes for high pressure circuits. Also, check that connecting parts are correctly installed.
21. When assembling or installing parts, always use the specified tightening torques. When installing protective parts such as guards, or parts which vibrate violently or rotate at high speed, be particularly careful to check that they are installed correctly.
22. When aligning two holes, never insert your fingers or hand. Be careful not to get your fingers caught in a hole.
23. When measuring hydraulic pressure, check that the measuring tool is correctly assembled before taking any measurements.
24. Take care when removing or installing the tracks of track-type machines.
When removing the track, the track separates suddenly, so never let anyone stand at either end of the track.

FOREWORD

This shop manual has been prepared as an aid to improve the quality of repairs by giving the serviceman an accurate understanding of the product and by showing him the correct way to perform repairs and make judgements. Make sure you understand the contents of this manual and use it to full effect at every opportunity.

This shop manual mainly contains the necessary technical information for operations performed in a service workshop.

For ease of understanding, the manual is divided into chapters for each main group of components; these chapters are further divided into the following sections.

STRUCTURE AND FUNCTION

This section explains the structure and function of each component. It serves not only to give an understanding of the structure, but also serves as reference material for troubleshooting.

TESTING AND ADJUSTING

This section explains checks to be made before and after performing repairs, as well as adjustments to be made at completion of the checks and repairs.

Troubleshooting charts correlating "Problems" to "Causes" are also included in this section.

DISASSEMBLY AND ASSEMBLY

This section explains the order to be followed when removing, installing, disassembling or assembling each component, as well as precautions to be taken for these operations.

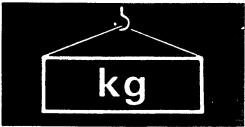
MAINTENANCE STANDARD

This section gives the judgement standards when inspecting disassembled parts.

NOTICE

The specifications contained in this shop manual are subject to change at any time and without any advance notice. Contact your KOMATSU distributor for the latest information.

HOISTING INSTRUCTIONS



⚠ Heavy parts (25 kg or more) must be lifted with a hoist etc. In the **Disassembly and Assembly** section, every part weighing 25 kg or more is indicated clearly with the symbol kg.

1. If a part cannot be smoothly removed from the machine by hoisting, the following checks should be made:
 - Check for removal of all bolts fastening the part to the relative parts.
 - Check for existence of another part causing interference with the part to be removed.

2. Wire ropes

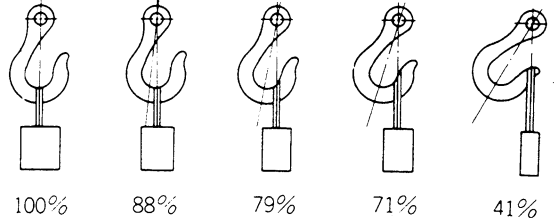
1) Use adequate ropes depending on the weight of parts to be hoisted, referring to the table below:

Wire ropes (Standard "Z" or "S" twist ropes without galvanizing)	
Rope diameter (mm)	Allowable load (tons)
10	1.0
11.2	1.4
12.5	1.6
14	2.2
16	2.8
18	3.6
20	4.4
22.4	5.6
30	10.0
40	18.0
50	28.0
60	40.0

The allowable load value is estimated to be one-sixth or one-seventh of the breaking strength of the rope used.

2) Sling wire ropes from the middle portion of the hook.

Slinging near the edge of the hook may cause the rope to slip off the hook during hoisting, and a serious accident can result. Hooks have maximum strength at the middle portion.



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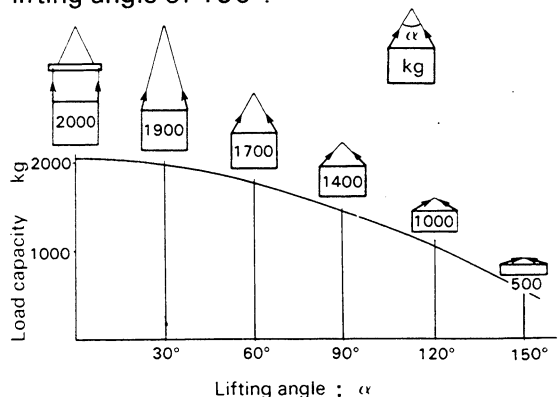
3) Do not sling a heavy load with one rope alone, but sling with two or more ropes symmetrically wound on to the load.

⚠ Slinging with one rope may cause turning of the load during hoisting, untwisting of the rope, or slipping of the rope from its original winding position on the load, which can result in a dangerous accident.

4) Do not sling a heavy load with ropes forming a wide hanging angle from the hook.

When hoisting a load with two or more ropes, the force subjected to each rope will increase with the hanging angles. The table below shows the variation of allowable load (kg) when hoisting is made with two ropes, each of which is allowed to sling up to 1000 kg vertically, at various hanging angles.

When two ropes sling a load vertically, up to 2000 kg of total weight can be suspended. This weight becomes 1000 kg when two ropes make a 120° hanging angle. On the other hand, two ropes are subjected to an excessive force as large as 4000 kg if they sling a 2000 kg load at a lifting angle of 150°.





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STANDARD TIGHTENING TORQUE

1. STANDARD TIGHTENING TORQUE OF BOLTS AND NUTS

The following charts give the standard tightening torques of bolts and nuts. Exceptions are given in sections of "Disassembly and Assembly".

Thread diameter of bolt (mm)	Width across flat (mm)		
		kgm	Nm
6	10	1.35 ± 0.15	13.2 ± 1.4
8	13	3.2 ± 0.3	31.4 ± 2.9
10	17	6.7 ± 0.7	65.7 ± 6.8
12	19	11.5 ± 1.0	112 ± 9.8
14	22	18.0 ± 2.0	177 ± 19
16	24	28.5 ± 3	279 ± 29
18	27	39 ± 4	383 ± 39
20	30	56 ± 6	549 ± 58
22	32	76 ± 8	745 ± 78
24	36	94.5 ± 10	927 ± 98
27	41	135 ± 15	1320 ± 140
30	46	175 ± 20	1720 ± 190
33	50	225 ± 25	2210 ± 240
36	55	280 ± 30	2750 ± 290
39	60	335 ± 35	3280 ± 340

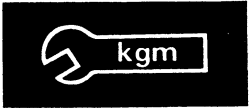
This torque table does not apply to the bolts with which nylon packings or other non-ferrous metal washers are to be used, or which require tightening to otherwise specified torque.

★ Nm (newton meter): $1\text{Nm} \approx 0.1 \text{kgm}$

2. TIGHTENING TORQUE OF SPLIT FLANGE BOLTS

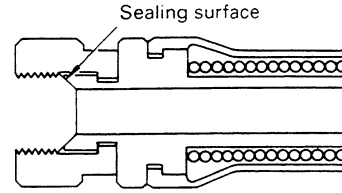
Use these torques for split flange bolts.

Thread diameter of bolt (mm)	Width across flats (mm)	Tightening torque	
		kgm	Nm
10	14	6.7 ± 0.7	65.7 ± 6.8
12	17	11.5 ± 1	112 ± 9.8
16	22	28.5 ± 3	279 ± 29



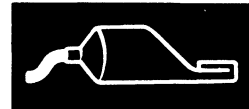
3. TIGHTENING TORQUE FOR NUTS OF FLARED

Use these torques for nut part of flared.



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Thread diameter of nut part (mm)	Width across flats of nut part (mm)	Tightening torque	
		kgm	Nm
14	19	2.5 ± 0.5	24.5 ± 4.9
18	24	5 ± 2	49 ± 19.6
22	27	8 ± 2	78.5 ± 19.6
24	32	14 ± 3	137.3 ± 29.4
30	36	18 ± 3	176.5 ± 29.4
33	41	20 ± 5	196.1 ± 49
36	46	25 ± 5	245.2 ± 49
42	55	30 ± 5	294.2 ± 49



COATING MATERIALS

The recommended coating materials prescribed in Komatsu Shop Manuals are listed below.

Nomenclature	Komatsu code	Applications
Adhesives	LT-1A	Used to apply rubber pads, rubber gaskets, and cork plugs.
	LT-1B	Used to apply resin, rubber, metallic and non-metallic parts when a fast, strong seal is needed.
	LT-2*	Preventing bolts, nuts and plugs from loosening and leaking oil.
	LT-3	Provides an airtight, electrically insulating seal. Used for aluminum surfaces.
	LT-4	Used to coat plugs (plate shaped, bowl shaped) and holes, and mating portion of shaft.
Sealant gasket	LG-1	Used with gaskets and packings to increase sealing effect.
	LG-3	Heat-resistant gasket for precombustion chambers and exhaust piping.
	LG-4	Used by itself on mounting surfaces on the final drive and transmission cases. (Thickness after tightening: 0.07 – 0.08 mm)
	LG-5	Used by itself to seal grease fittings, tapered screw fittings and tapered screw fittings in hydraulic circuits of less than 50 mm in diameter.
	LG-6	Silicon base type used in combination with LG-1 and LG-4.
	LG-7	Has a shorter curing time than LG-6, and is easier to peel off.
Antifriction compound (Lubricant including molybdenum disulfide)	LM-P	Applied to bearings and taper shafts to facilitate press-fitting and to prevent sticking, burning or rusting.
Grease (Lithium grease)	G2-LI	Applied to bearings, sliding parts and oil seals for lubrication, rust prevention and facilitation of assembling work.
Vaseline	—	Used for protecting battery electrode terminals from corrosion.

*LT-2 is also called LOCTITE in the shop manuals.

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: 5WB indicates a cable having a nominal number 5 and white coating with black stripe.

CLASSIFICATION BY THICKNESS

Nominal number	Copper wire			Cable O.D. (mm)	Current rating (A)	Applicable circuit
	Number strands	Dia. of strands (mm)	Cross section (mm ²)			
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	Pri- mary	Code W	B	B	R	Y
		Color White	Black	Black	Red	Yellow	Green	Blue
2	Auxi- liary	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)	—

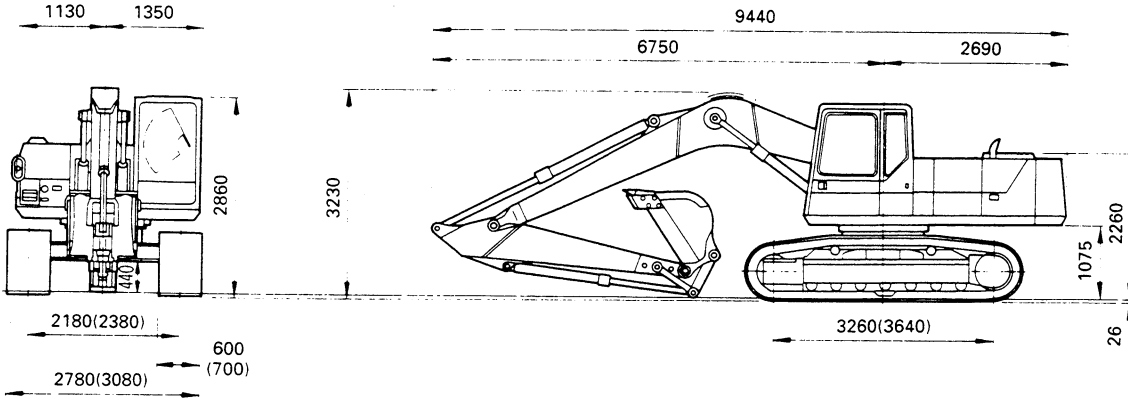
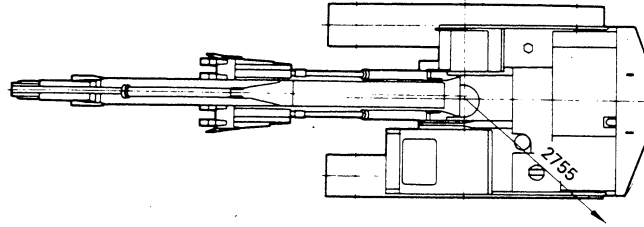
01 GENERAL

General assembly drawing	01- 2
Specifications	01- 4
Weight table	01- 8
List of lubricant and water	01-12

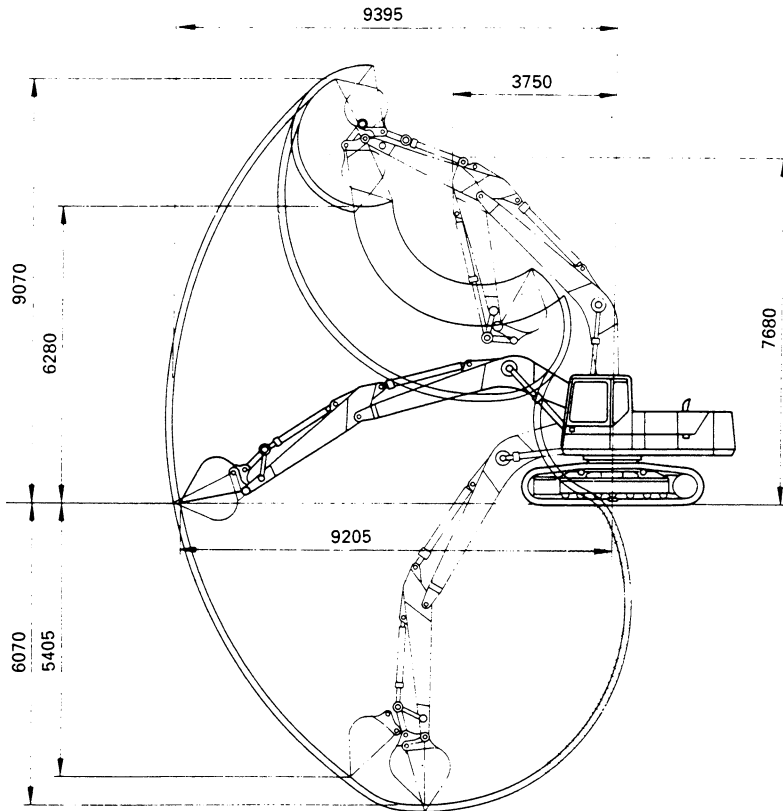
K205P5

GENERAL ASSEMBLY DRAWING

PC210-5
PC210LC-5



205F05001

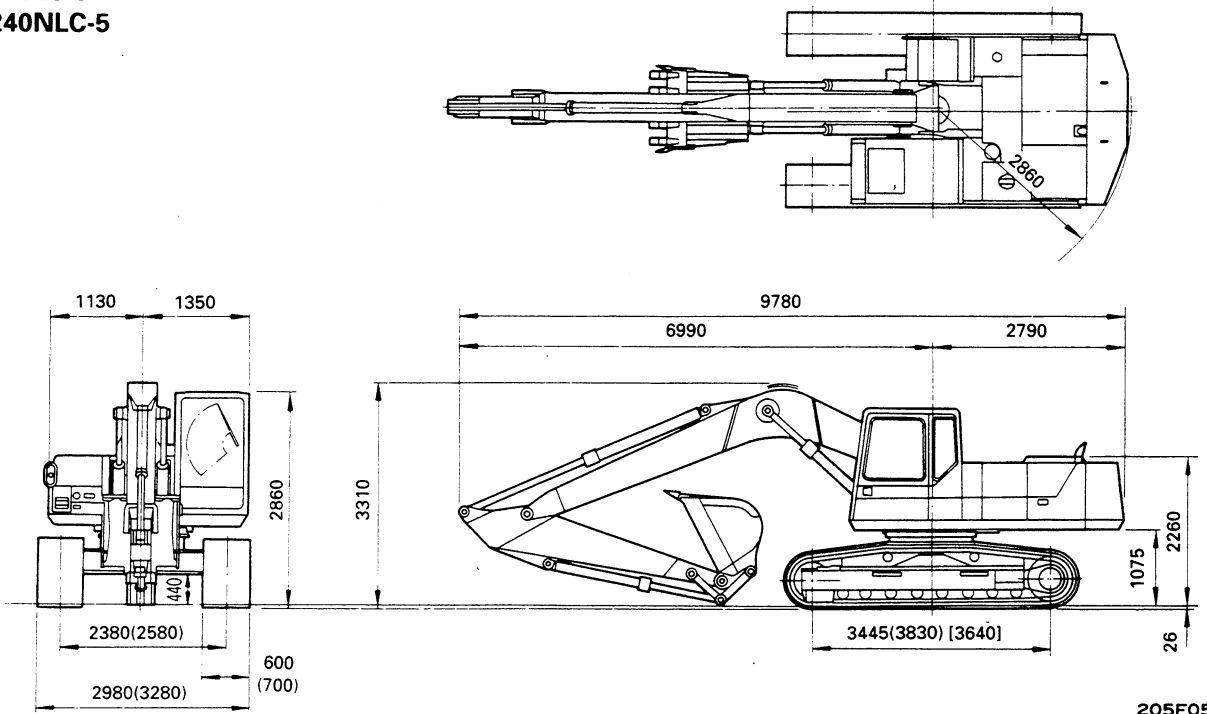


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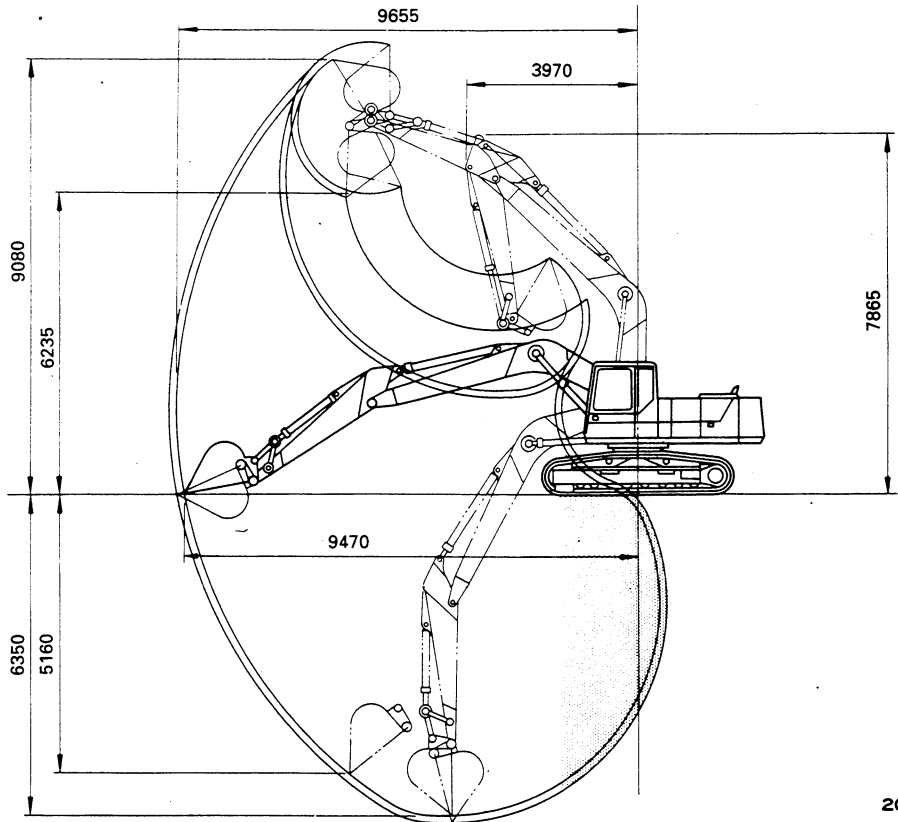
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K205P5

PC240-5
 PC240LC-5
 PC240NLC-5



205F05003



205F05004

(): PC240LC-5
 []: PC240NLC-5

SPECIFICATIONS

PC210, 210LC-5

Machine Model		PC210-5	PC210LC-5	
Serial Numbers		K20001 and up	K20001 and up	
Operating Weight (kg)		19,900	21,100	
Bucket Capacity (m ³)		0.9	0.9	
PERFORMANCE	WORKING RANGE	Maximum digging depth (mm)	6,070	6,070
		Vertical wall depth (mm)	5,405	5,405
		Maximum digging reach (mm)	9,395	9,395
		Maximum digging reach at ground level (mm)	9,205	9,205
		Maximum digging height (mm)	9,070	9,070
		Maximum dumping height (mm)	6,280	6,280
	Maximum digging force (when using power max.) (kg)	13,700 (14,300)	13,700 (14,300)	
	Continued swing speed (rpm)	13	13	
	Swing maximum slope angle (deg.)	20	20	
	Travel speed (km/h)	Lo : 3.2 Hi: 5.5	Lo : 3.2 Hi: 5.5	
	Gradeability (deg.)	35	35	
	Ground pressure (standard triple-shoe) (kg/cm ²)	0.46 (600 mm)	0.38 (700 mm)	
	DIMENSIONS	Overall length (at transportation) (mm)	9,440	9,440
		Overall width (mm)	2,780	3,080
Track width (mm)		2,780	3,080	
Overall height (at transportation) (mm)		3,230	3,230	
Height of cab (mm)		2,860	2,860	
Ground clearance of counterweight (mm)		1,080	1,080	
Minimum ground clearance (mm)		440	440	
Radius of upper structure (mm)		2,760	2,760	
Minimum swing radius at front end (mm)		3,630	3,630	
Arm height at minimum swing radius (mm)		7,680	7,680	
Length of track on ground (mm)		3,260	3,640	
Track gauge (mm)		2,180	2,380	
Height of machine hood (mm)		2,260	2,260	

K205P5

Machine Model		PC210-5	PC210LC-5
Serial Numbers		K20001 and up	K20001 and up
ENGINE	Engine model	1006-6T	
	Type	4-cycle, in-line vertical, water cooled, direct injection type diesel engine with turbocharger	
	No. of cylinder - bore x stroke (mm)	6 - 100 x 127	
	Total displacement (cc)	5,985	
	Flywheel horsepower (HP/rpm)	125/2,100	
	Maximum torque (kgm/rpm)	52.1/1,400	
	High idling speed (rpm)	2,260 ± 50	
	Low idling speed (rpm)	900 ± 25	
	Minimum fuel consumption ratio (g/HPh)	149	
	Starting motor	24V, 5.2kw	
Alternator	24V, 55A		
Battery	12V, 95Ah x 2		
Type of radiator core	CWX-4		
UNDER-CARRIAGE	Carrier roller (one side)	2	2
	Track roller (one side)	7	9
	Track shoe	Built-up triple grouser	Built-up triple grouser
HYDRAULIC SYSTEM	HYDRAULIC PUMP	Type, number	Variable displacement piston type x 2 Gear type x 1
		Delivery (ℓ/min)	Piston type : 191 x 2 Gear type : 50
		Set pressure (kg/cm ²) (when using power max.)	Piston type : 325 (340) Gear type : 32
		HYDRAULIC CONTROL VALVE	Type, number
	Control lever operation		Hydraulic assist type
	HYDRAULIC MOTOR	Travel motor	Piston type (with brake valve, parking brake) x 2
		Swing motor	Piston type (with safety valve, parking brake) x 1
	Hydraulic cylinder	Double acting piston	
	Hydraulic tank	Closed box type	
	Hydraulic filter	Tank return side	
Hydraulic cooler	Air cooled		

PC240, 240LC, 240NLC-5

Machine Model		PC240-5	PC240LC-5	PC240NLC-5		
Serial Numbers		K20001 and up	K20001 and up	K20001 and up		
PERFORMANCE	Operating Weight	(kg)	23,000	24,100	23,700	
	Bucket Capacity	(m ³)	1.1	1.1	1.1	
	WORKING RANGE	Maximum digging depth	(mm)	6,350	6,350	6,350
		Vertical wall depth	(mm)	5,160	5,160	5,160
		Maximum digging reach	(mm)	9,655	9,655	9,655
		Maximum digging reach at ground level	(mm)	9,470	9,470	9,470
		Maximum digging height	(mm)	9,080	9,080	9,080
		Maximum dumping height	(mm)	6,235	6,235	6,235
	Maximum digging force (when using power max.)	(kg)	15,700 (16,400)	15,700 (16,400)	15,700 (16,400)	
	Continued swing speed	(rpm)	13	13	13	
	Swing maximum slope angle	(deg.)	17.5	17.5	17.5	
	Travel speed	(km/h)	Lo: 3.4, Hi:5.5	Lo: 3.4, Hi:5.5	Lo: 3.4, Hi: 5.5	
	Gradeability	(deg.)	35	35	35	
	Ground pressure (standard triple-shoe)	(kg/cm ²)	0.51 (600 mm)	0.42 (700 mm)	0.51 (600 mm)	
DIMENSIONS	Overall length (at transportation)	(mm)	9,780	9,780	9,780	
	Overall width	(mm)	2,980	3,280	2,980	
	Track width	(mm)	2,980	3,280	2,980	
	Overall height (at transportation)	(mm)	3,310	3,310	3,310	
	Height of cab	(mm)	2,860	2,860	2,860	
	Ground clearance of counterweight	(mm)	1,080	1,080	1,080	
	Minimum ground clearance	(mm)	440	440	440	
	Radius of upper structure	(mm)	2,860	2,860	2,860	
	Minimum swing radius at front end	(mm)	3,970	3,970	3,970	
	Arm height at minimum swing radius	(mm)	7,870	7,870	7,870	
	Length of track on ground	(mm)	3,445	3,830	3,640	
	Track gauge	(mm)	2,380	2,580	2,380	
	Height of machine hood	(mm)	2,260	2,260	2,260	

K205P5