SEBM010201K

Shop Manual

KOMATSU®

PC200-6

HYDRAULIC EXCAVATOR

SERIAL NUMBERS **PC200-6 - C10001** and up

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SPECIFICATIONS

Machine model				PC200-6
Serial Number				C10001 and up
		Bucket capacity	m^3	0.8
		Operating weight	kg	19,880
Performance	Working ranges	Max. digging depth	mm	6,620
		Max. vertical wall depth	mm	5,980
		Max. digging reach	mm	9,875
		Max. reach at ground level	mm	9,700
		Max. digging height	mm	9,305
		Max. dumping height	mm	6,475
		Max. digging force	kN (kg)	111.7 (11,400)
		Swing speed	rpm	12.4
		Swing max. slope angle	deg.	20
		Travel speed	km/h	Hi: 5.5 Lo: 3.8
		Gradeability	deg.	35
		Ground pressure (standard triple grouser shoe width: 800mm)	kPa (kg/cm^2)	34.3 (0.35)
Dimensions		Overall length (for transport)	mm	9,425
		Overall width	mm	3,000
		Overall width of track	mm	3,000
		Overall height (for transport)	mm	2,970
		Overall height to chassis	mm	2,905
		Ground clearance to bottom of upper structure	mm	1,085
		Min. ground clearance	mm	440
		Tail swing radius	mm	2,750
		Min. swing radius of work equipment	mm	3,630
		Height of work equipment at min. swing radius	mm	7,670
		Length of track on ground	mm	3,270
		Track gauge	mm	2,200
		Height of machine cab	mm	2,255

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Machine model				PC200-6		
Serial Number				C10001 and up		
Engine	Model			S6D102-1		
	Type			4-cycle, water-cooled, in-line, vertical, diredt injection, with turbocharger		
	No. of cylinders – bore × stroke		mm	6 – 102 × 120		
	Piston displacement		ℓ {cc}	5.883 {5,883}		
	Performance	Flywheel horsepower	kW/rpm {HP/rpm}	95.6/2,000 {128/2,000}		
		Max. torque	Nm/rpm {kgm/rpm}	548.8/1,350 {56/1,350}		
		Max. speed at no load	rpm	2,200		
		Min. speed at no load	rpm	970		
		Min. fuel consumption	g/kWh {g/HPh}	218 {160}		
	Starting motor			24V, 4.5 kW		
	Alternator			24V, 35A		
	Battery			12V, 110 Ah × 2		
	Radiator core type			CWX-4		
Under-carriage	Carrier roller			2 on each side		
	Track roller			7 on each side		
	Track shoe			Assembly-type triple grouser, 45 on each side		
Hydraulic system	Hydraulic pump	Type × no.		HPV95+95, variable displacement piston type × 2		
		Delivery	ℓ/min	Piston type: 206 × 2		
	Control valve	Type × No.		6-spool type × 1		
		Control method		Hydraulic type		
	Hydraulic motor	Travel motor		HMV110-2, Piston type (with brake valve, parking brake) × 2		
		Swing motor		KMF90AB-3, Piston type (with safety valve, parking brake) × 1		
	Hydraulic cylinder	Type		Boom: Reciprocating piston	Arm: Reciprocating piston	Bucket: Reciprocating piston
		Inside diameter of cylinder	mm	120	135	115
		Diameter of piston rod	mm	85	95	80
		Stroke	mm	1,285	1,490	1,120
		Max. distance between pins	mm	3,155	3,565	2,800
		Min. distance between pins	mm	1,870	2,075	1,680
	Hydraulic tank			Box-shaped, open		
	Hydraulic filter			Tank return side		
	Hydraulic cooler			Air cooled (CFT-1)		

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WEIGHT TABLE

⚠ This weight table is for use when handling components or when transporting the machine.

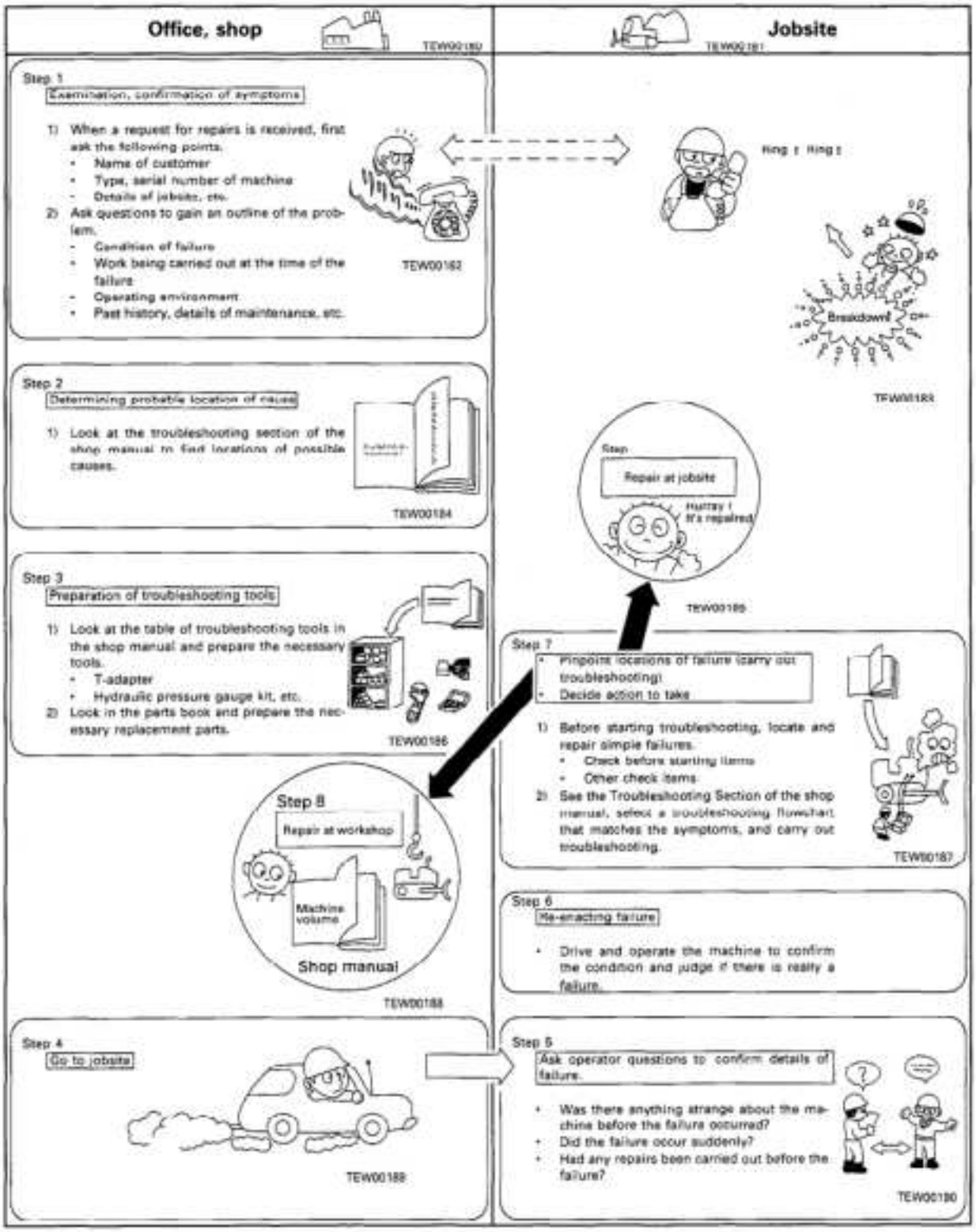
Unit: kg

Machine model	PC200-6
Serial Number	C10001 and up
Engine assembly	742
• Engine	535
• Damper	6
• Hydraulic pump	145
Radiator, oil cooler assembly	109
Hydraulic tank, filter assembly (excl. hydraulic oil)	136
Fuel tank (excl. fuel)	122
Revolving frame	1,556
Operator's cab	191
Operator's seat	13
Counterweight	3,750
Swing machinery	164
Control valve	166
Swing motor	53
Travel motor	98 × 2
Center swivel joint	42
Track frame assembly	4,280
• Track frame	2,158
• Swing circle	276
• Idler	140 × 2
• Idler cushion	135 × 2
• Carrier roller	21 × 4
• Track roller	38 × 14
• Final drive (incl. travel motor)	340 × 2

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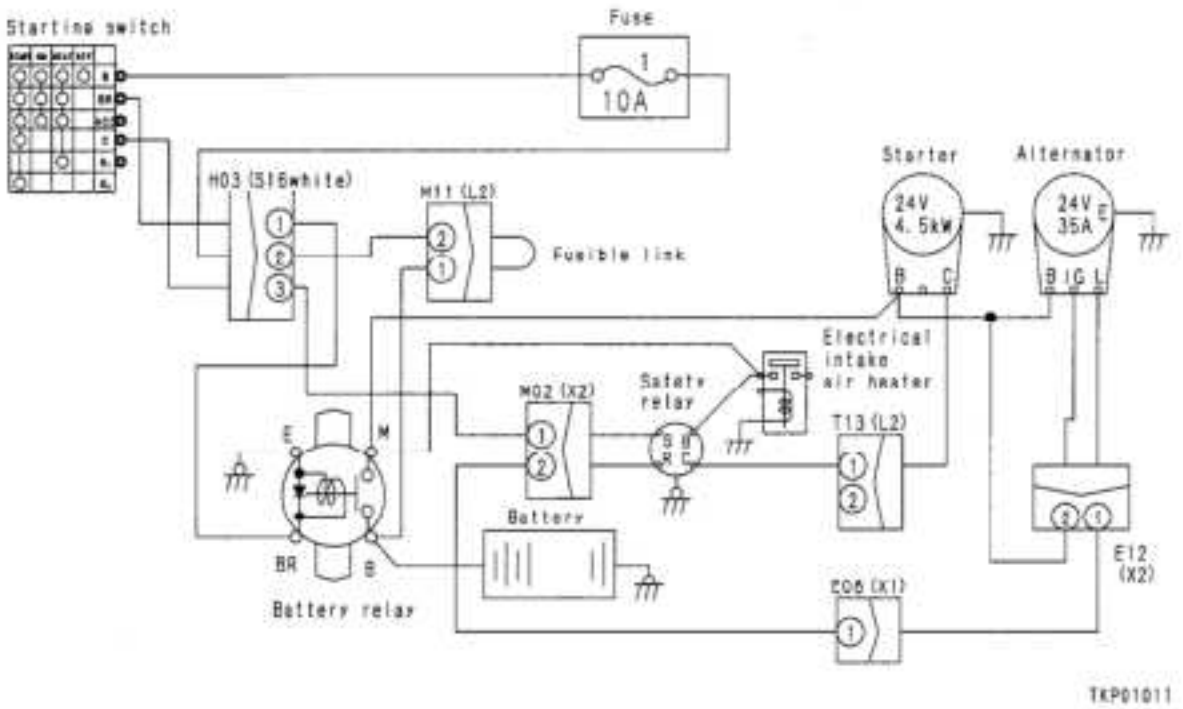
SEQUENCE OF EVENTS IN TROUBLESHOOTING



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E-5 Related electric circuit diagram



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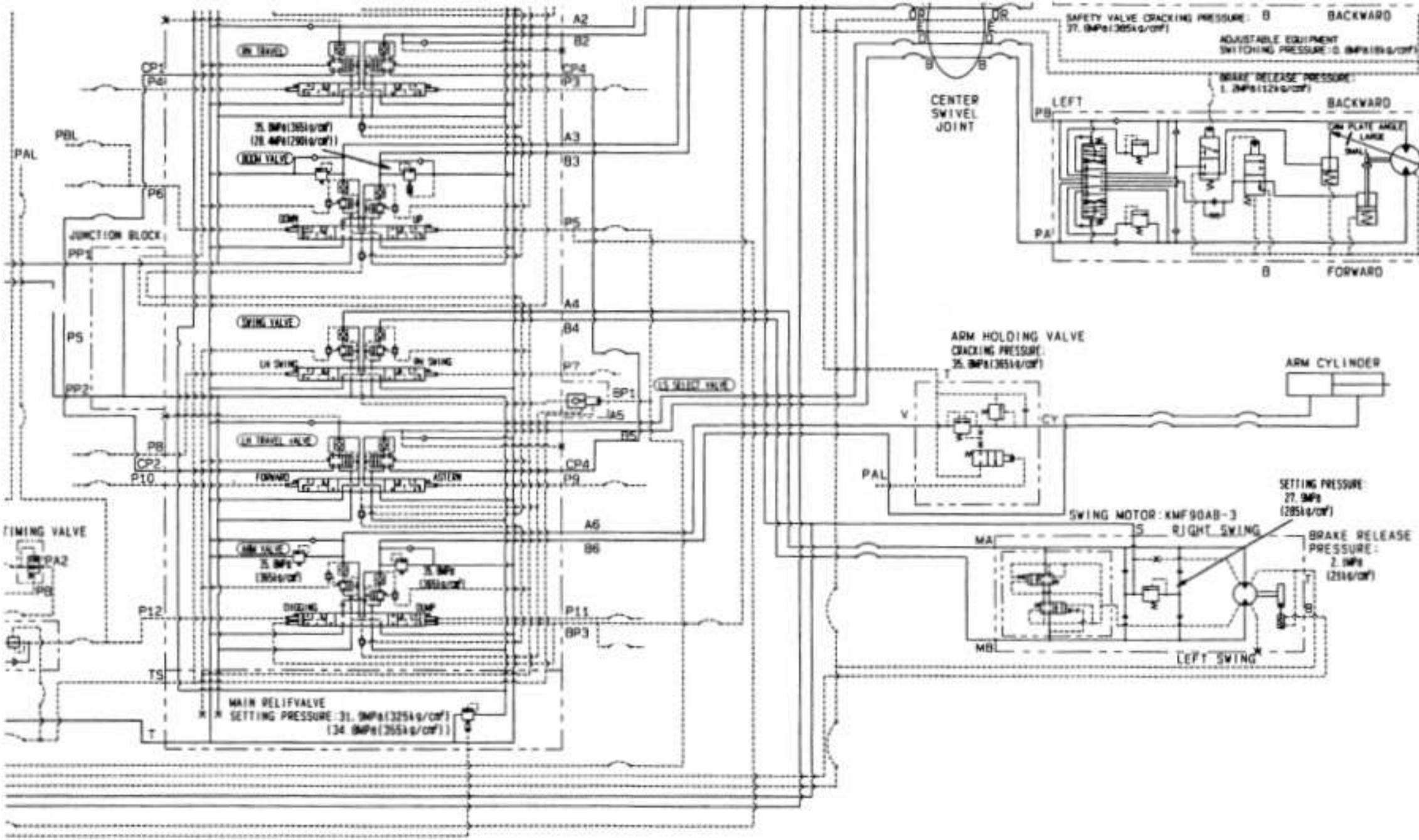
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Unit: mm

No. \ Model	PC200-6
1	457.6±0.6
2	22±0.5
3	92°45'
4	458.1
5	1,477.4
6	159.8
7	—
8	0
9	$\phi 80^{+0.2}_{0}$
10	326.5±1
11	56
12	106
13	470
14	ø22
15	ø140
16	ø190
17	132
18	129
19	107
20	82
21	348.5^{+2}_{0}
22	38

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