

SHOP MANUAL

KOMATSU

PC340LC, 340NLC-7K

MACHINE MODEL

PC340LC-7K

PC340NLC-7K

SERIAL NUMBER

K40001 AND UP

K40001 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.
- PC340LC/NLC-7K mount the SAA6D114E engine.
For details of the engine, see the 114 Series Engine Shop Manual.

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01 GENERAL

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Specifications

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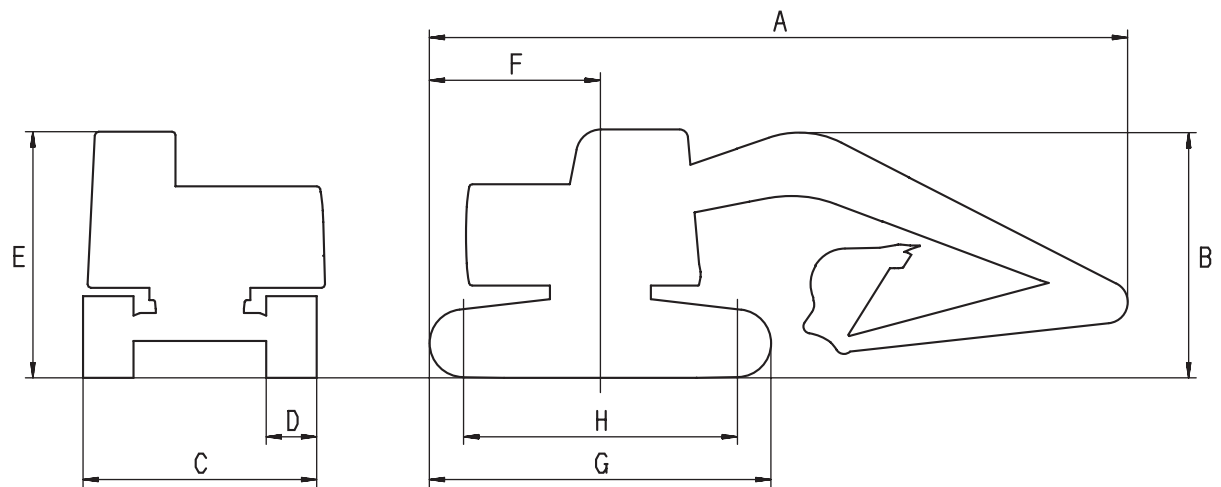
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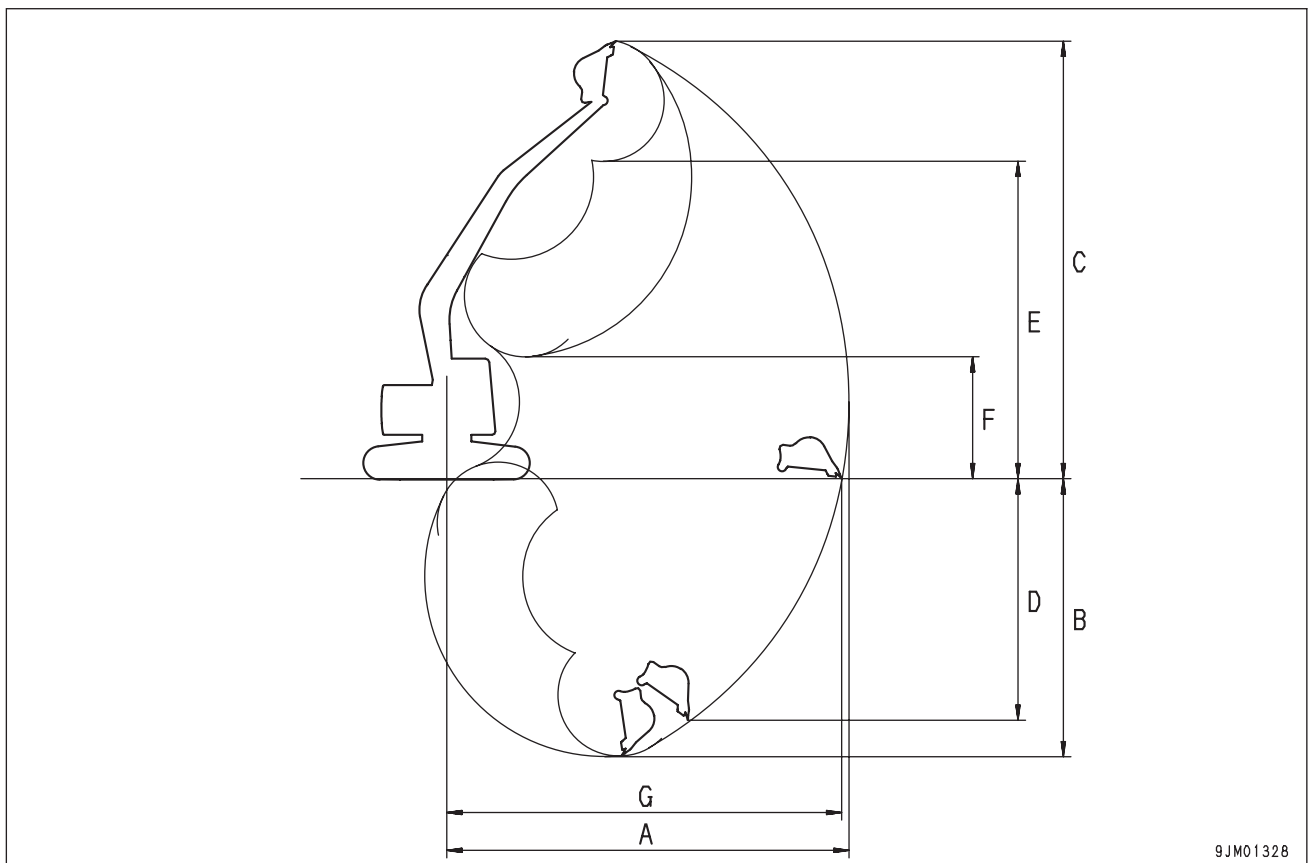
SPECIFICATION DIMENSION DRAWINGS

DIMENSIONS



9JM01330

WORKING RANGES



9JM01328

DIMENSIONS

	Item	Unit	PC340LC-7	PC340NLC-7
A	Overall length	mm	11,140	11,140
B	Overall height	mm	3,290	3,280
C	Overall width	mm	3,190	2,990
D	Track shoe width	mm	700	600
E	Height of cab	mm	3,130	3,130
F	Tail swing radius	mm	3,450	3,450
G	Track overall length	mm	4,955	4,955
H	Length of track on ground	mm	4,030	4,030
	Min. ground clearance	mm	498	498

WORKING RANGES

	Item	Unit	PC340LC-7	PC340NLC-7
A	Max. digging reach	mm	11,100	11,100
B	Max. digging depth	mm	7,380	7,380
C	Max. digging height	mm	10,210	10,210
D	Max. vertical wall depth	mm	6,480	6,480
E	Max. dumping height	mm	7,110	7,110
F	Min. dumping height	mm	2,640	2,640
G	Max. reach at ground level	mm	10,920	10,920

SPECIFICATIONS

PC340LC-7, PC340NLC-7

Machine model				PC340LC-7	PC340NLC-7
Serial Number				40001 and up	
Bucket capacity			m³	1.4	1.4
Operating weight			kg	33,530	33,230
Performance	Working ranges	Max. digging depth	mm	7,380	7,380
		Max. vertical wall depth	mm	6,480	6,480
		Max. digging reach	mm	11,100	11,100
		Max. reach at ground level	mm	10,920	10,920
		Max. digging height	mm	10,210	10,210
		Max. dumping height	mm	7,110	7,110
	Max. digging force		kN {kg}	211.8 {21,600} (226.5	211.8 {21,600} (226.5
	(using power max. function)		kN {kg}	{23,100})	{23,100})
	Swing speed		rpm	9.5	9.5
	Swing max. slope angle		deg.	21	21
	Travel speed		km/h	Lo: 3.2 (※ Mi: 4.5)	Lo: 3.2 (※ Mi: 4.5)
				Hi: 5.5	Hi: 5.5
	Gradeability		deg.	35	35
	Ground pressure		kPa {kg/cm²}	53.0 {0.54}	61.8 {0.63}
[standard shoe width]		[mm]	[700]	[600]	
Dimensions	Overall length (for transport)		mm	11,140	11,140
	Overall width		mm	3,190	3,190
	Overall width of track		mm	3,290	2,990
	Overall height (for transport)		mm	3,280	3,280
	Overall height to chassis		mm	3,130	3,130
	Ground clearance to bottom of upper structure		mm	1,186	1,186
	Min. ground clearance		mm	498	498
	Tail swing radius		mm	3,450	3,450
	Min. swing radius of work equipment		mm	4,310	4,310
	Height of work equipment at min. swing radius		mm	8,520	8,520
	Length of track on ground		mm	4,030	4,030
	Track gauge		mm	2,590	2,590
	Height of machine cab		mm	3,130	3,130

※: The "Mi" mode is on the multi-monitor specification machine only.

Machine model				PC340LC-7		PC340NLC-7		
Serial Number				40001 and up				
Engine	Model Type			SAA6D114E 4-cycle, water-cooled, in-line, vertical, direct injection, with turbo charger and aftercooler				
	No. of cylinders - bore x stroke		mm	6 - 114 x 135				
	Piston displacement		l {cc}	8.27 {8,270}				
	Performance	Flywheel horsepower	kW/rpm {HP/rpm}	180.3/1,900 {242/1,900}				
		Max. torque	Nm/rpm {kgm/rpm}	1,079/1,400 {110/1,400}				
		Max. speed at no load	rpm	2,160				
		Min. speed at no load	rpm	900				
Min. fuel consumption		g/kWh {g/HP}	205 {153}					
Starting motor			24V, 7.5 kW					
Alternator			24V, 35 A					
Battery			12V, 126 Ah x 2					
Radiator core type			CF19-4					
Under-carriage	Carrier roller			2 on each side				
	Track roller			7 on each side		8 on each side		
	Track shoe			Assembly-type triple grouser, 45 on each side		Assembly-type triple grouser, 48 on each side		
Hydraulic system	Hydraulic pump	Type x No.	l/min MPa (kg/cm²)	HPV125+125, variable displacement, Piston type x2				
		Delivery		267.5 x 2				
		Set pressure		37.8 {380}				
	Control valve	Type x No.		6-spool type + 1-spool type x 1				
		Control method		Hydraulic				
	Hydraulic motor	Travel motor		HMFV160ADT-2, Piston type (with brake valve, parking brake): x 2				
		Swing motor		KMF230ABE-5, Piston type (with safety valve, holding brake): x 1 reverse rotation check valve				
	Hydraulic cylinder	Type		Boom	Arm		Bucket	
				Double acting piston	Double acting piston		Double acting piston	
Inside diameter of cylinder		mm	140	160		140		
		mm	100	110		100		
		mm	1,480	1,825		1,285		
		mm	3,525	4,255		3,155		
Max. distance between pins	mm	2,045	2,430		1,870			
	Min. distance between pins							
Hydraulic tank			Closed box type					
Hydraulic filter			Tank return side					
Hydraulic cooler			CFT-1 (Air cooled)					

WEIGHT TABLE



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

PC340LC-7, PC340NLC-7

Unit: kg

Machine model	PC340LC-7	PC340NLC-7
Serial Number	40001 and up	
Engine assembly	1,148	1,148
• Engine	860	860
• Damper	14.3	14.3
• Hydraulic pump	178	178
Radiator oil cooler assembly	153	153
Hydraulic tank, filter assembly (excluding hydraulic oil)	176	176
Fuel tank (excluding fuel)	238	238
Revolving frame	2,723	2,723
Operator's cab	292	292
Operator's seat	35	35
Counterweight	5,470	5,470
Swing machinery	442	442
Control valve	242	242
Swing motor	88	88
Travel motor	164 x 2	164 x 2
Center swivel joint	29.9	29.9
Track frame assembly	7,979	7,979
• Track frame	4,441	4096.79
• Swing circle	487	169 x 2
• Idler	169 x 2	287.5 x 2
• Idler cushion	287.5 x 2	31.3 x 4
• Carrier roller	31.3 x 4	52.9 x 16
• Track roller	52.9 x 14	583 x 2
• Final drive (including travel motor)	583 x 2	

Unit: kg

Machine model	PC340LC-7	PC340NLC-7
Serial Number	40001 and up	
Track shoe assembly		
• Standard triple grouser shoe (600 mm)	3,700	3,700
• Standard triple grouser shoe (700 mm)	4,300	4,300
• Wide triple grouser shoe (800 mm)	4,680	4,680
• Road liner (rubber pad type) (600 mm)	—	—
Boom assembly	2,290	2,290
Arm assembly	1,105	1,105
Bucket assembly	1,015	1,015
Boom cylinder assembly	254 x 2	254 x 2
Arm cylinder assembly	382	382
Bucket cylinder assembly	228	228
Link assembly (large)	316	316
Link assembly (small)	—	—
Boom pin	76 + 15 x 2 + 56 + 17 + 42	76 + 15 x 2 + 56 + 17 + 42
Arm pin	13 + 17	13 + 17
Bucket pin	30 x 2	30 x 2
Link pin	27 x 2	27 x 2

FUEL, COOLANT, AND LUBRICANTS

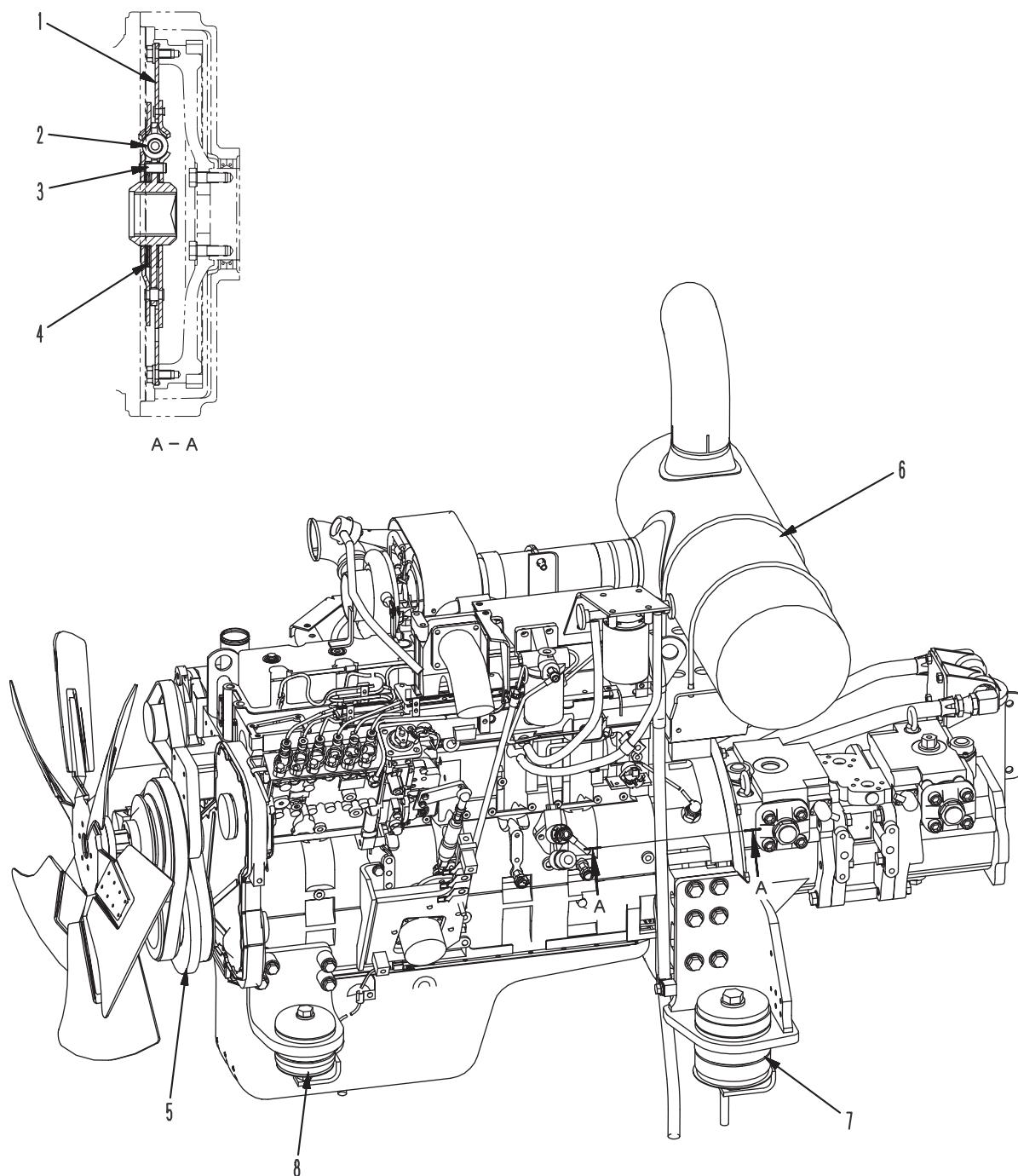
RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE								CAPACITY (l)	
		-22 -30	-4 -20	14 -10	32 0	50 10	68 20	86 30	104°F 40°C	Specified	Refill
Engine oil pan	Engine oil					SAE 30			38	35	
					SAE 10W						
					SAE 10W-30						
					SAE 15W-40						
Damper case										1.3	—
Swing machinery case										13.4	13.4
Final drive case (each side)						SAE 30				8.5	8.5
Idler (1 each)										0.22 ~ 0.24	0.22 ~ 0.24
Track roller (1 each)										0.25 ~ 0.28	0.25 ~ 0.28
Carrier roller (1 each)										0.145 ~ 0.155	0.145 ~ 0.155
Hydraulic system						SAE 10W			365	188	
						SAE 10W-30					
						SAE 15W-40					
	Hydraulic oil										
Fuel tank	Diesel fuel					ASTM D975 No. 2			605	—	
						ASTM D975A No.1					
Cooling system	Coolant				Add antifreeze					32	—

★ For the H-046-HM, use the oil recommended by Komatsu.

10 STRUCTURE, FUNCTION AND MAINTENANCE STANDARD

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ENGINE RELATED PARTS



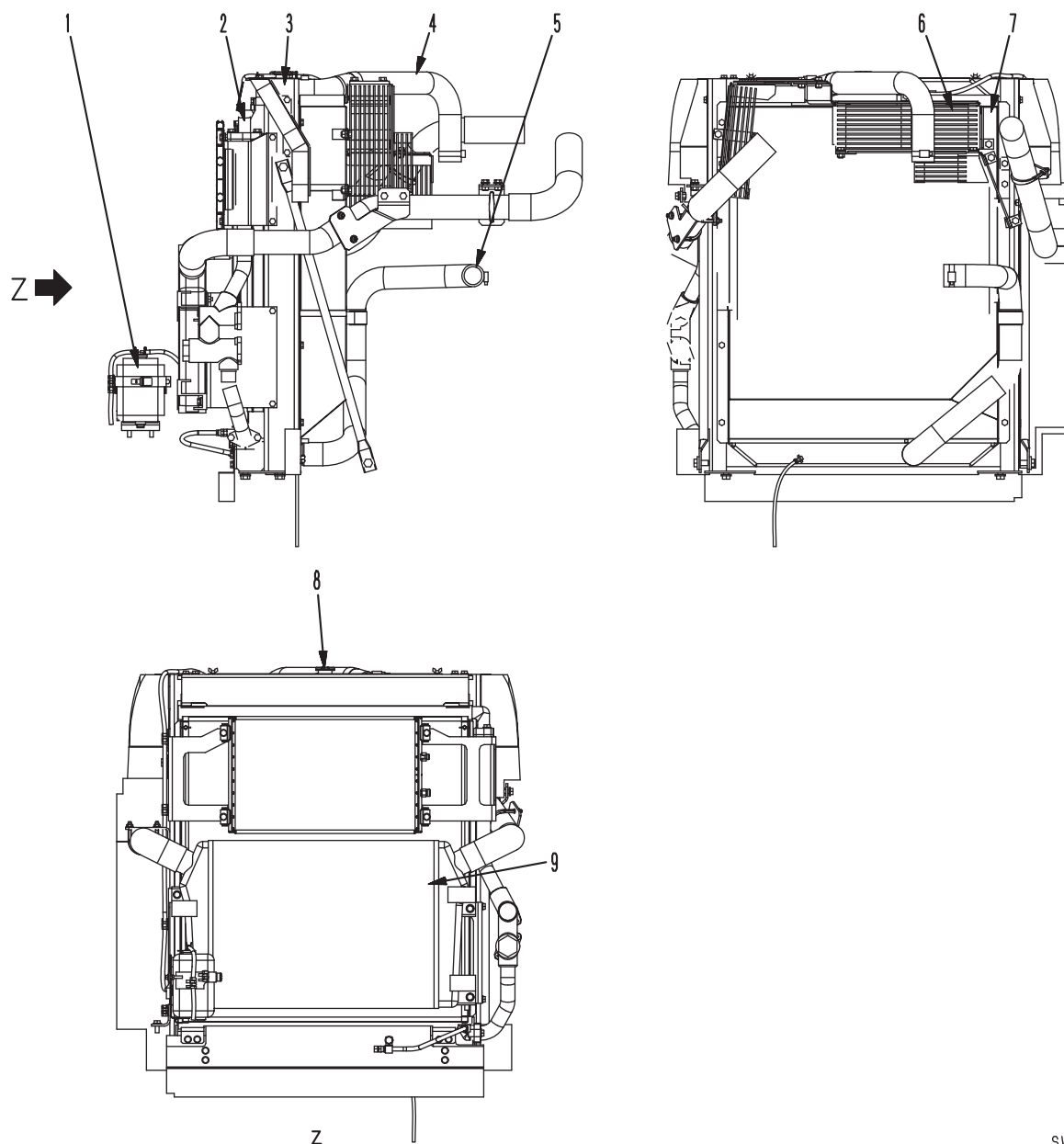
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- | | |
|-------------------|-----------------------|
| 1. Drive plate | 5. Damper assembly |
| 2. Torsion spring | 6. Muffler |
| 3. Stopper pin | 7. Rear engine mount |
| 4. Friction plate | 8. Front engine mount |

OUTLINE

- The damper assembly is a wet type.
Oil capacity: 1.3 l

RADIATOR • OIL COOLER • AFTERCOOLER



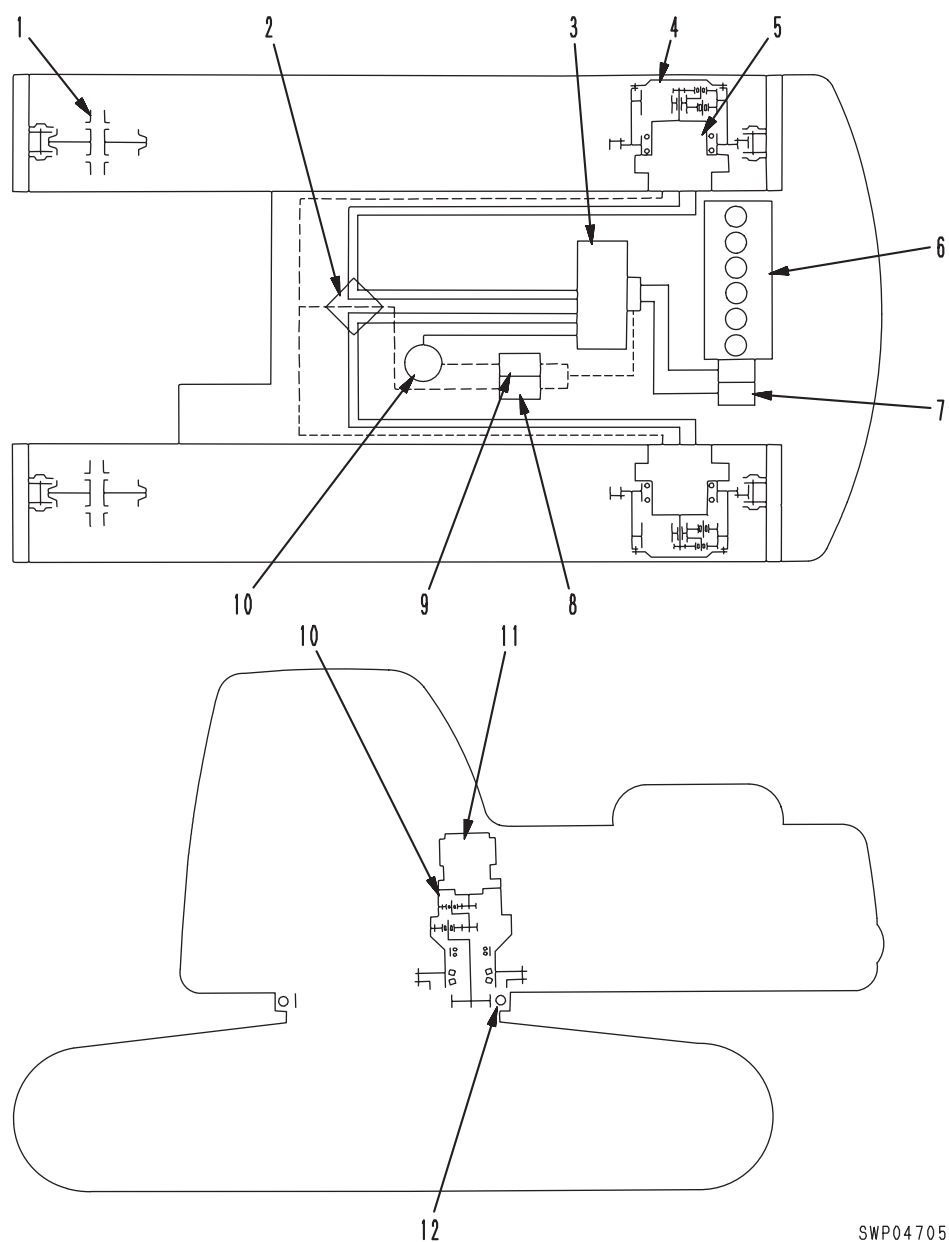
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1. Reservoir tank
2. Oil cooler
3. Radiator
4. Radiator inlet hose
5. Radiator outlet hose
6. Net
7. Shroud
8. Radiator cap
9. Aftercooler

SPECIFICATIONS

Radiator : CF19-4
 Oil cooler : CF40-1

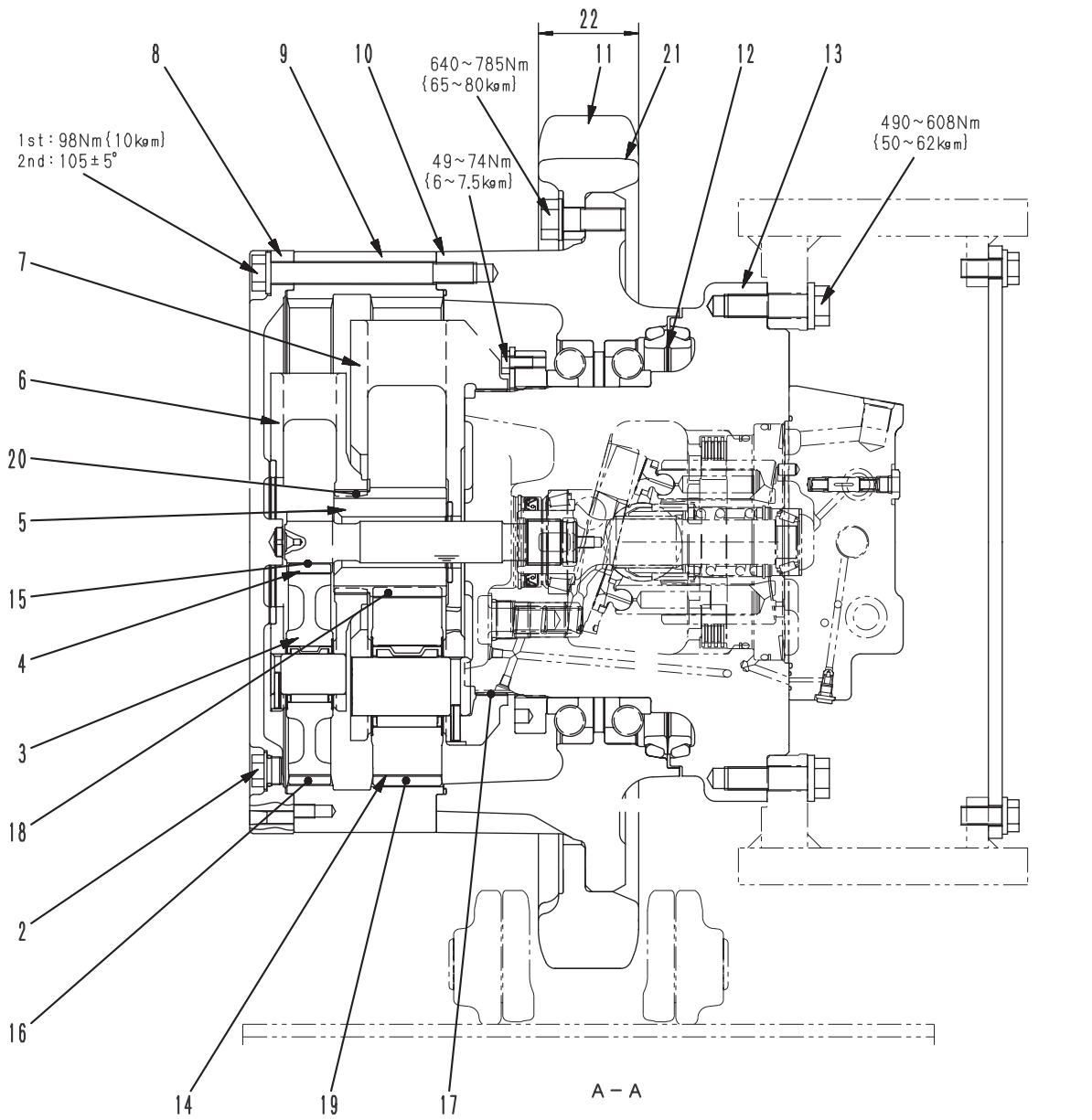
POWER TRAIN



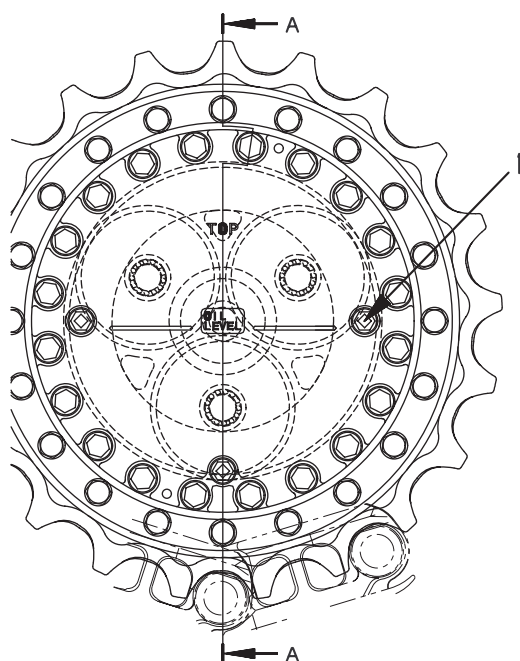
SWP04705

- | | |
|--------------------------------|--------------------------------|
| 1. Idler | 7. Hydraulic pump (HPV125+125) |
| 2. Center swivel joint | 8. Travel speed solenoid valve |
| 3. Control valve | 9. Swing brake solenoid valve |
| 4. Final drive | 10. Swing machinery |
| 5. Travel motor (HMT 160ADT-2) | 11. Swing motor (KMF230ABE-5) |
| 6. Engine (SAA6D114E) | 12. Swing circle |

FINAL DRIVE



SJP08991



1. Level plug
2. Drain plug
3. No. 1 planetary gear (No. of teeth: 42)
4. No. 1 sun gear (No. of teeth: 11)
5. No. 2 sun gear (No. of teeth: 19)
6. No. 1 planetary carrier
7. No. 2 planetary carrier
8. Cover
9. Ring gear (No. of teeth: 97)
10. Hub
11. Sprocket
12. Floating seal
13. Travel motor
14. No. 2 planetary gear (No. of teeth: 38)

SPECIFICATIONS

Reduction ratio:

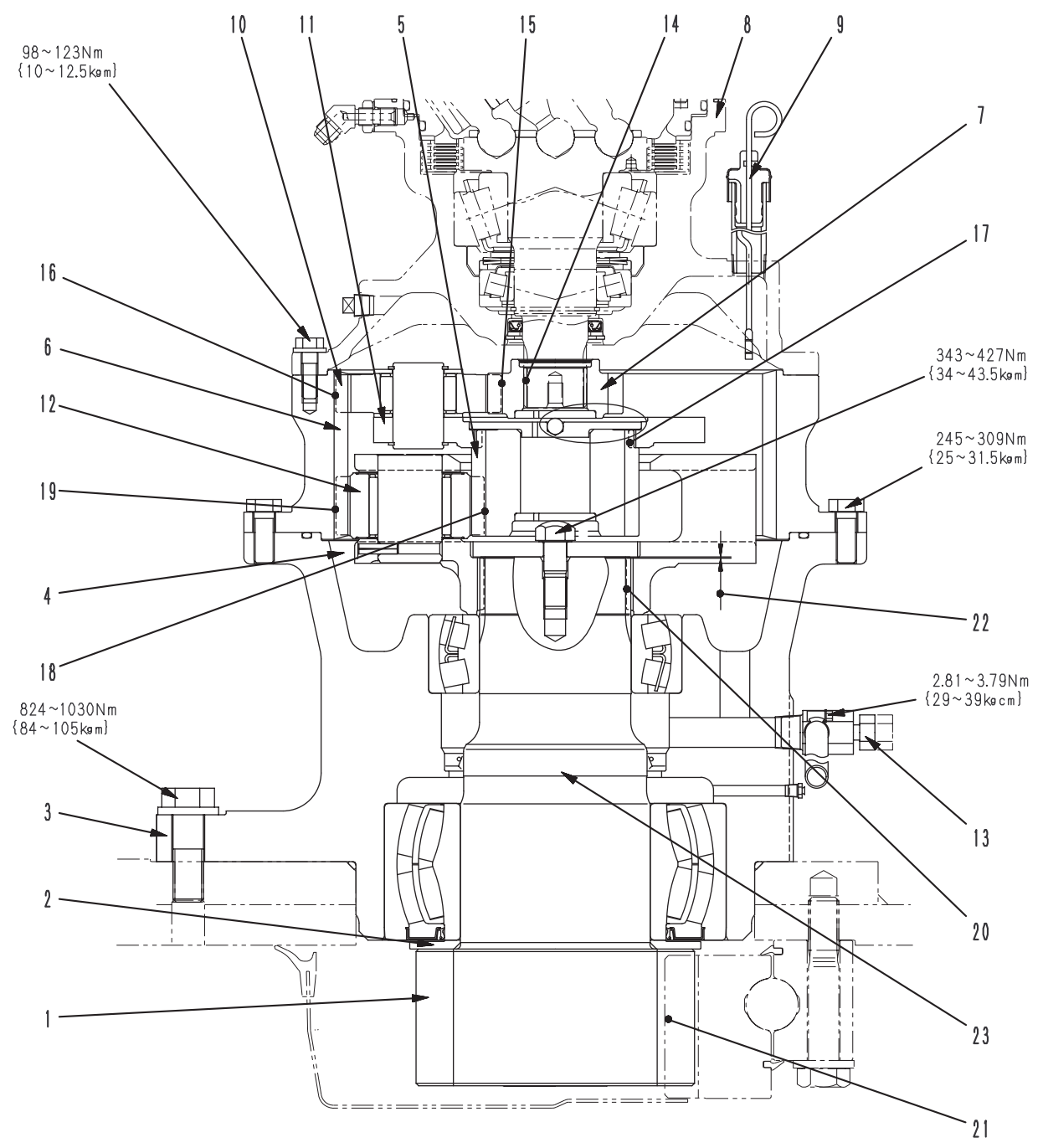
$$-\left(\frac{11+97}{11}\right) \times \left(\frac{19+97}{19}\right) = -58.943$$

SJP08992

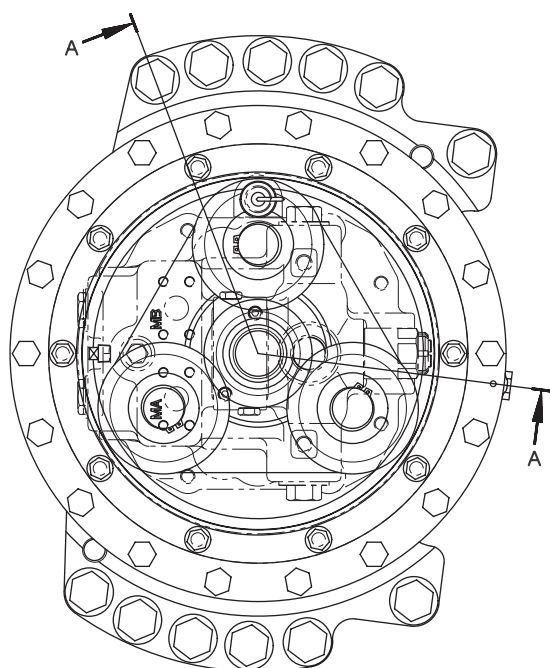
Unit: mm

No.	Check item	Criteria		Remedy
15	Backlash between No. 1 sun gear and No. 1 planetary gear	Standard clearance	Clearance limit	Replace
		0.12 ~ 0.44	0.90	
16	Backlash between No. 1 planetary gear and ring gear	0.18 ~ 0.62	1.20	
17	Backlash between No. 2 planetary carrier and motor	0.06 ~ 0.25	—	
18	Backlash between No. 2 sun gear and No. 2 planetary gear	0.15 ~ 0.51	1.00	
19	Backlash between No. 2 planetary gear and ring gear	0.19 ~ 0.66	1.30	
20	Backlash between No. 2 planetary carrier and No. 2 sun gear	0.39 ~ 0.80	1.60	
21	Amount of wear on sprocket tooth	Repair limit: 6		Rebuild or replace
22	Width of sprocket tooth	Standard size	Repair limit	
		87	84	

SWING MACHINERY



SJP08993



1. Swing pinion (No. of teeth: 13)
2. Spacer
3. Case
4. No. 2 planetary gear
5. No. 2 sun gear
6. Ring gear
7. No. 1 sun gear
8. Swing motor
9. Oil level gauge
10. No. 1 planetary gear
11. No. 1 planetary carrier
12. No. 2 planetary carrier
13. Drain plug

SPECIFICATIONS

Reduction ratio:

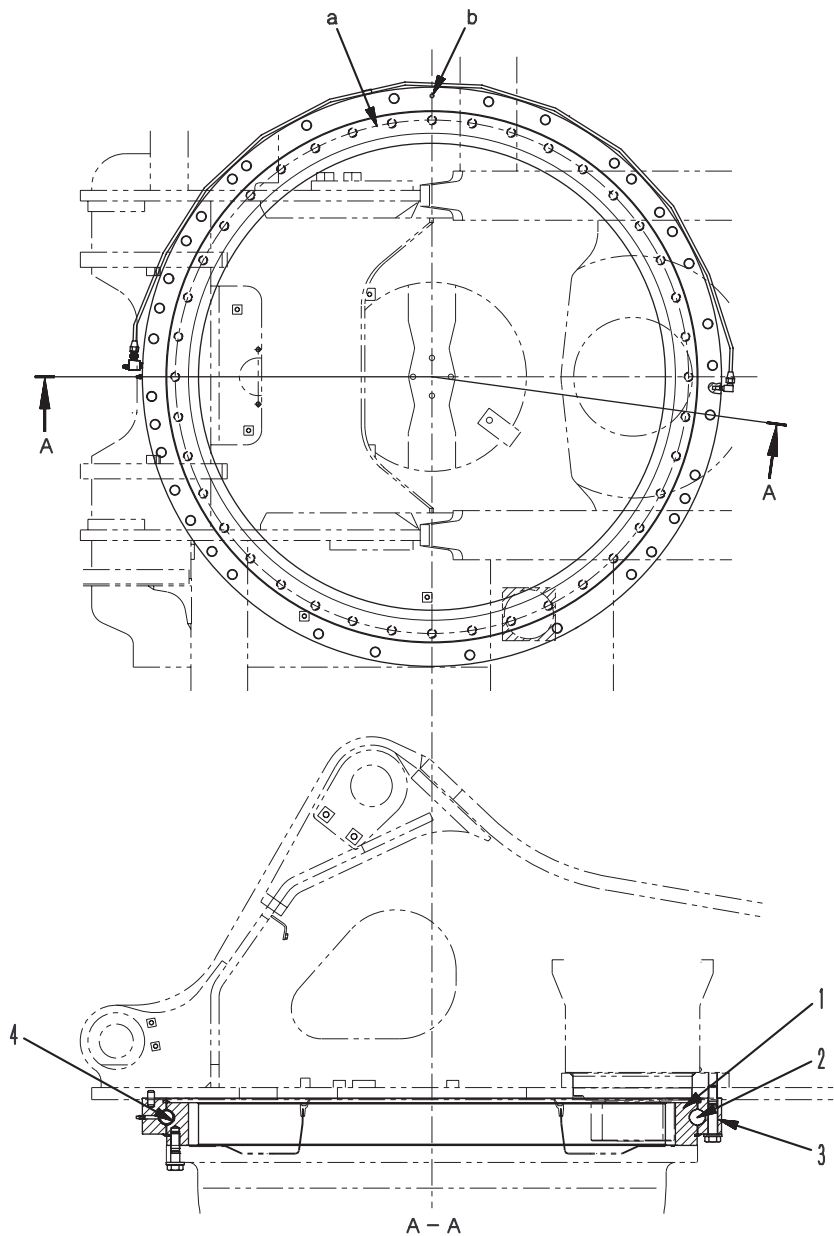
$$\left(\frac{19+68}{19} \right) \times \left(\frac{24+68}{24} \right) = 17.553$$

SJP08994

Unit: mm

No.	Check item	Criteria		Remedy
14	Backlash between swing motor shaft and No. 1 sun gear	Standard clearance	Clearance limit	Replace
		0.18 ~ 0.28	—	
15	Backlash between No. 1 sun gear and No. 1 planetary gear	0.15 ~ 0.51	1.00	
16	Backlash between No. 1 planetary gear and ring gear	0.17 ~ 0.60	1.10	
17	Backlash between No. 1 planetary carrier and No. 2 sun gear	0.40 ~ 0.75	1.20	
18	Backlash between No. 2 sun gear and No. 2 planetary gear	0.16 ~ 0.55	1.00	
19	Backlash between No. 2 planetary gear and ring gear	0.17 ~ 0.60	1.10	
20	Backlash between coupling and swing pinion	0.08 ~ 0.25	—	
21	Backlash between swing pinion and swing circle	0.00 ~ 1.21	2.00	
22	Clearance between plate and coupling	0.57 ~ 1.09	—	Apply hard chrome plating, recondition, or replace
23	Wear of swing pinion surface contacting with oil seal	Standard size	Repair limit	
		0 145 -0.100	—	

SWING CIRCLE



SJP08995

- 1. Swing circle inner race (No. of teeth: 90)
- 2. Ball
- 3. Swing circle outer race
- a. Inner race soft zone S position
- b. Outer race soft zone S position

SPECIFICATIONS

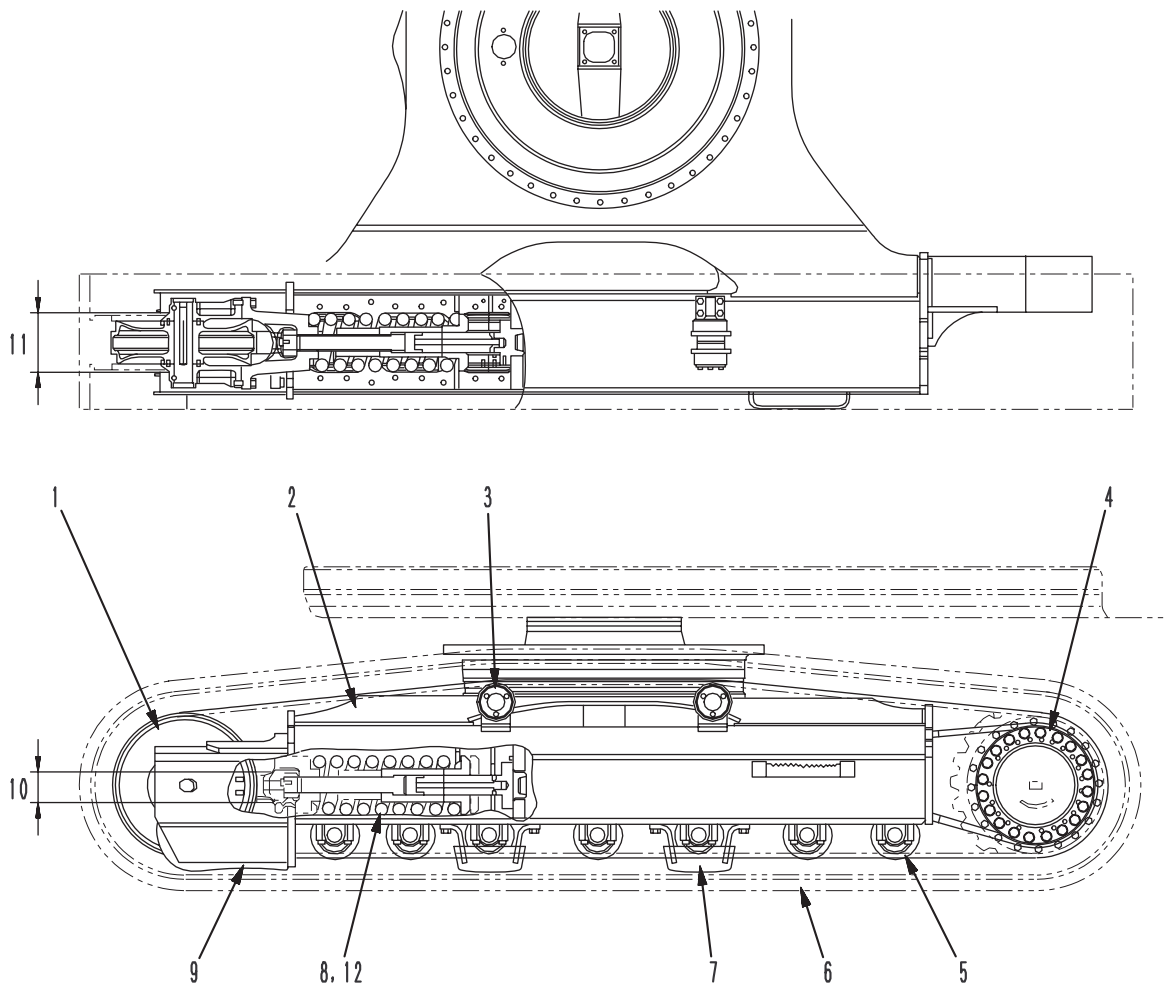
Reduction ratio: $-\frac{90}{13} = -6.923$

Amount of grease: 33 I (G2-LI)

Unit: mm

No.	Check item	Criteria		Remedy
		Standard clearance	Clearance limit	
4	Axial clearance of bearing (when mounted on chassis)	0.5 ~ 1.6	3.2	Replace

TRACK FRAME • RECOIL SPRING



SWP08996

- 1 Idler
- 2 Track frame
- 3 Carrier roller
- 4 Final drive
- 5 Track roller
- 6 Track shoe
- 7 Center guard
- 8 Recoil spring
- 9 Front guard

- The dimensions and the number of track rollers depend on the model, but the basic structure is not different.
- Number of track rollers

Model	Q'ty
PC340LC-7	8
PC340NLC-7	8

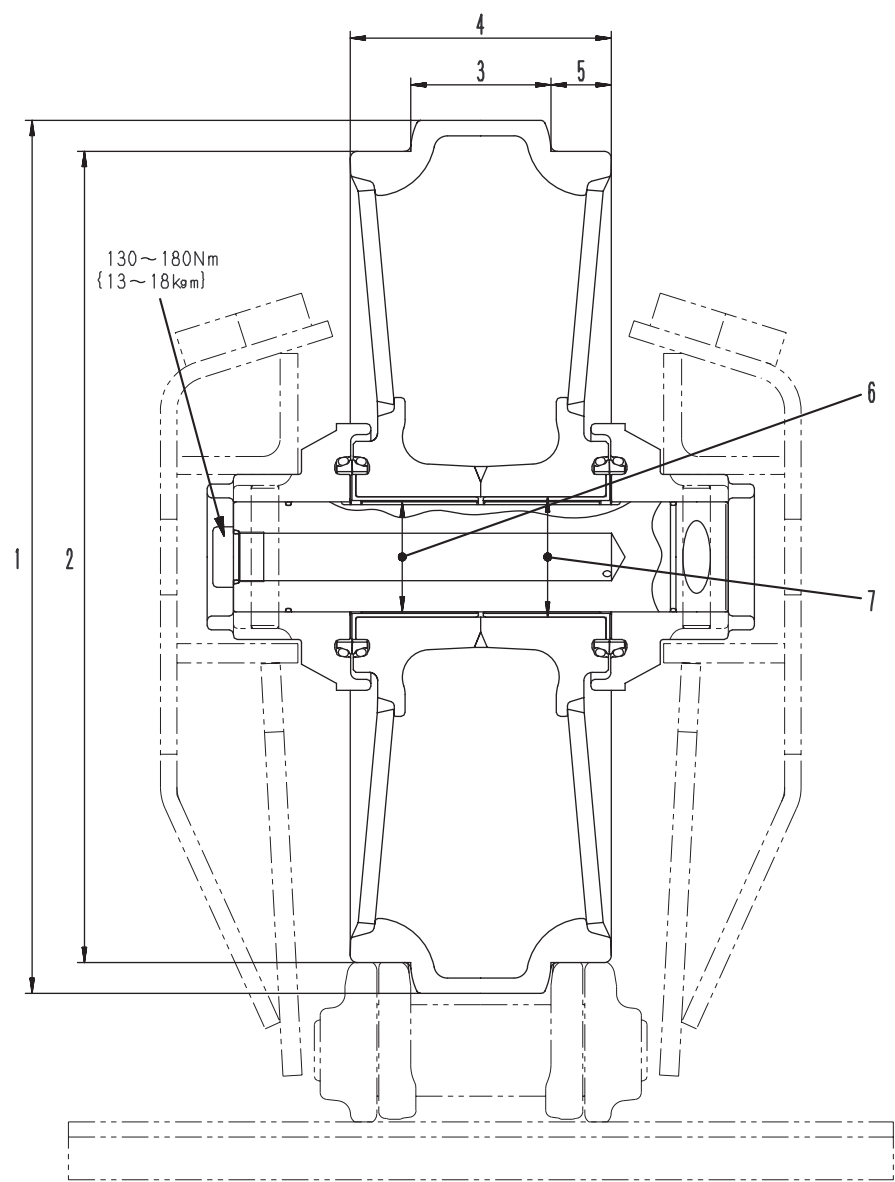
Standard shoe

Item	Model	PC340LC-7	PC340NLC-7
Shoe width		700 mm	600 mm
Link pitch		216 mm	216 mm
No. on track (one side)		48 (pieces)	48 (pieces)

Unit: mm

No.	Check item	Criteria				Remedy	
10	Vertical width of idler guide		Standard size	Tolerance	Repair limit	Rebuild or replace	
		Track frame	123	+2 -1	127		
		Idler support	120	± 0.5	118		
11	Horizontal width of idler guide	Track frame	266	+3 -1	271		
		Idler support	261	—	259		
12	Recoil spring	Standard size			Repair limit		Replace
		Free length x O.D.	Installation length	Installation load	Free length	Installation load	
		795 X 241	648	173.3 kN (17,680 kg)	—	138.56 kN (14,140 kg)	

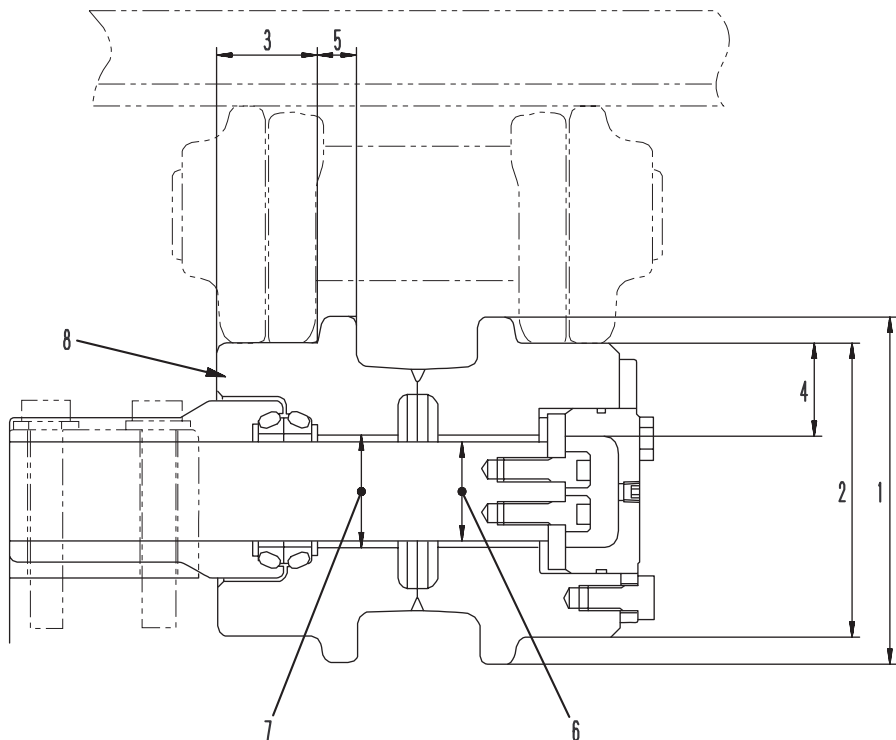
IDLER



SJP08997

Unit: mm

No.	Check item	Criteria				Remedy	
1	Outside diameter of protruding	Standard size	Repair limit			Rebuild or replace	
		635	—				
2	Outside diameter of tread	590	578				
3	Width of protrusion	102	—				
4	Total width	190	—				
5	Width of tread	44	50				
6	Clearance between shaft and bushing	Standard size	Tolerance		Standard clear- ance	Clearance limit	Replace bushing
			Shaft	Hole			
		80	-0.225 -0.325	+0.130 -0.024	0.201 ~ 0.455	1.5	
7	Interference between idler and bush- ing	Standard size	Tolerance		Standard inter- ference	Interference limit	
			Shaft	Hole			
		87.6	+0.087 +0.037	-0.027 -0.079	0.064 ~ 0.166	—	



SWP08998

Unit: mm

No.	Check item	Criteria				Remedy	
1	Outside diameter of flange	Standard size		Repair limit		Replace	
		175		—			
2	Outside diameter of tread	148		106			
3	Width of tread	50.3		—			
4	Thickness of tread	32		29.5			
5	Width of flange	19		—			
6	Interference between shaft and bushing	Standard size	Tolerance		Standard interference		Clearance limit
			Shaft	Hole			
		50	-0.250 -0.270	+0.099 -0.032	0.218 ~ 0.369		—
7	Interference between roller and bushing	Standard size	Tolerance		Standard interference		Interference limit
			Shaft	Hole			
		57	+0.117 +0.087	0 -0.040	0.087 ~ 0.158	—	
8	Axial clearance of roller	Standard clearance			Clearance limit		
		0.60 - 0.80			—		