

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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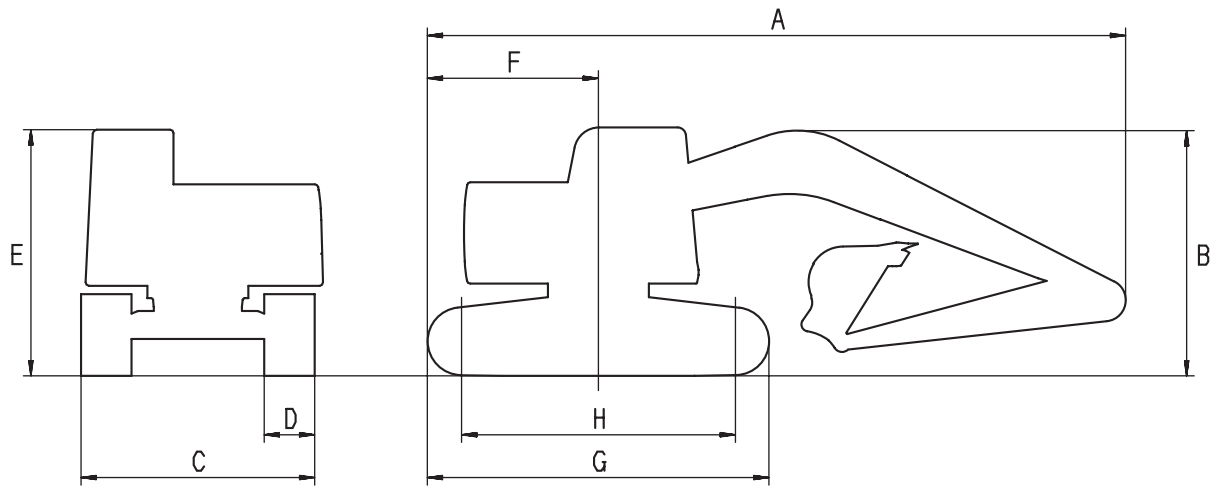
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01 GENERAL

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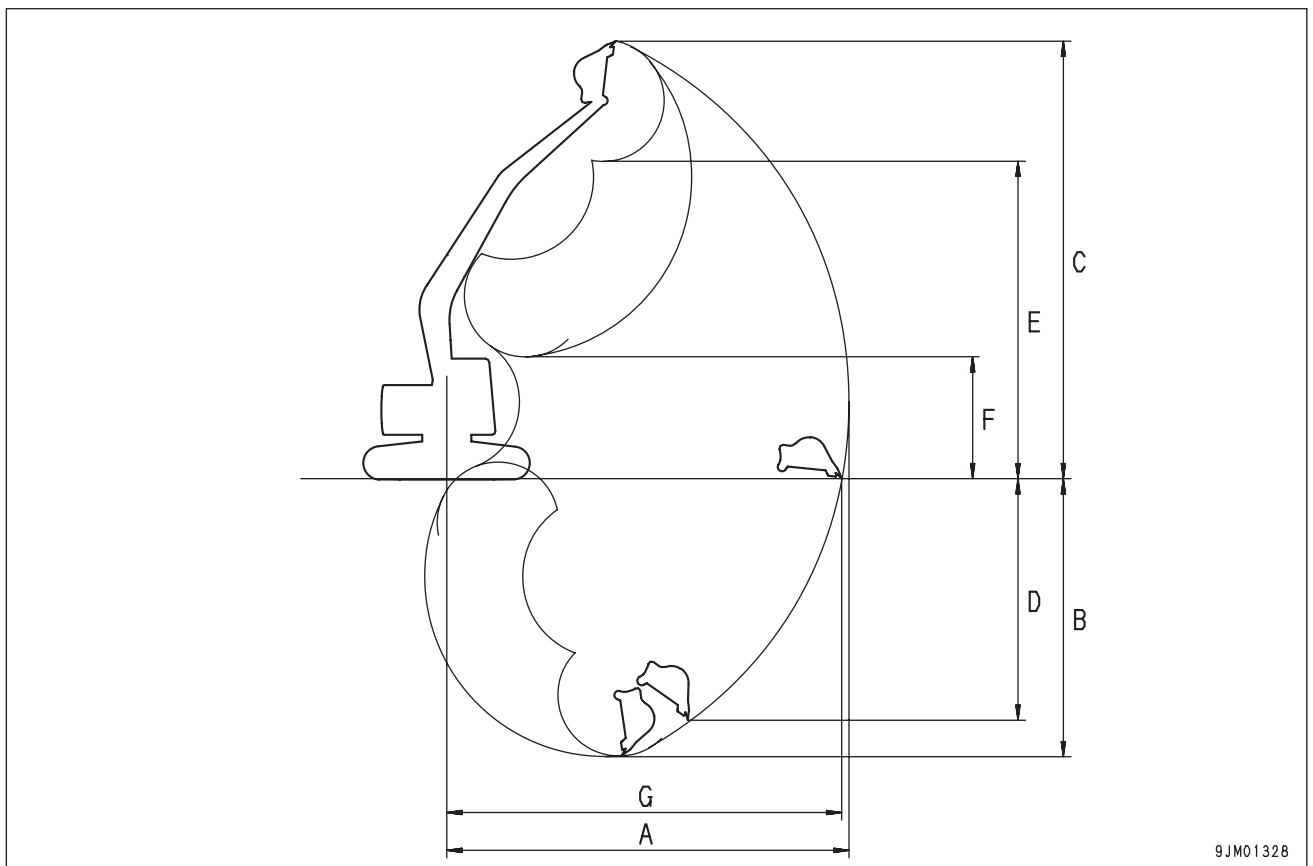
SPECIFICATION DIMENSION DRAWINGS

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		m ³	1.4	1.4
Operating weight		kg	33,530	33,230
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
Performance	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/cm ² }	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	SAA6D114E				
	Type	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/HPh}	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. Delivery Set pressure	l/min MPa (kg/cm ²)	HPV125+125, variable displacement, Piston type x2 267.5 x 2 37.8 {380}		
	Control valve	Type x No. Control method		6-spool type + 1-spool type x 1 Hydraulic		
	Hydraulic motor	Travel motor Swing motor		H MV160ADT-2, Piston type (with brake valve, parking brake): x 2 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
		Diameter of piston rod	mm	100	110	100
		Stroke	mm	1,480	1,825	1,285
Max. distance between pins	mm	3,525	4,255	3,155		
Min. distance between pins	mm	2,045	2,430	1,870		
	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

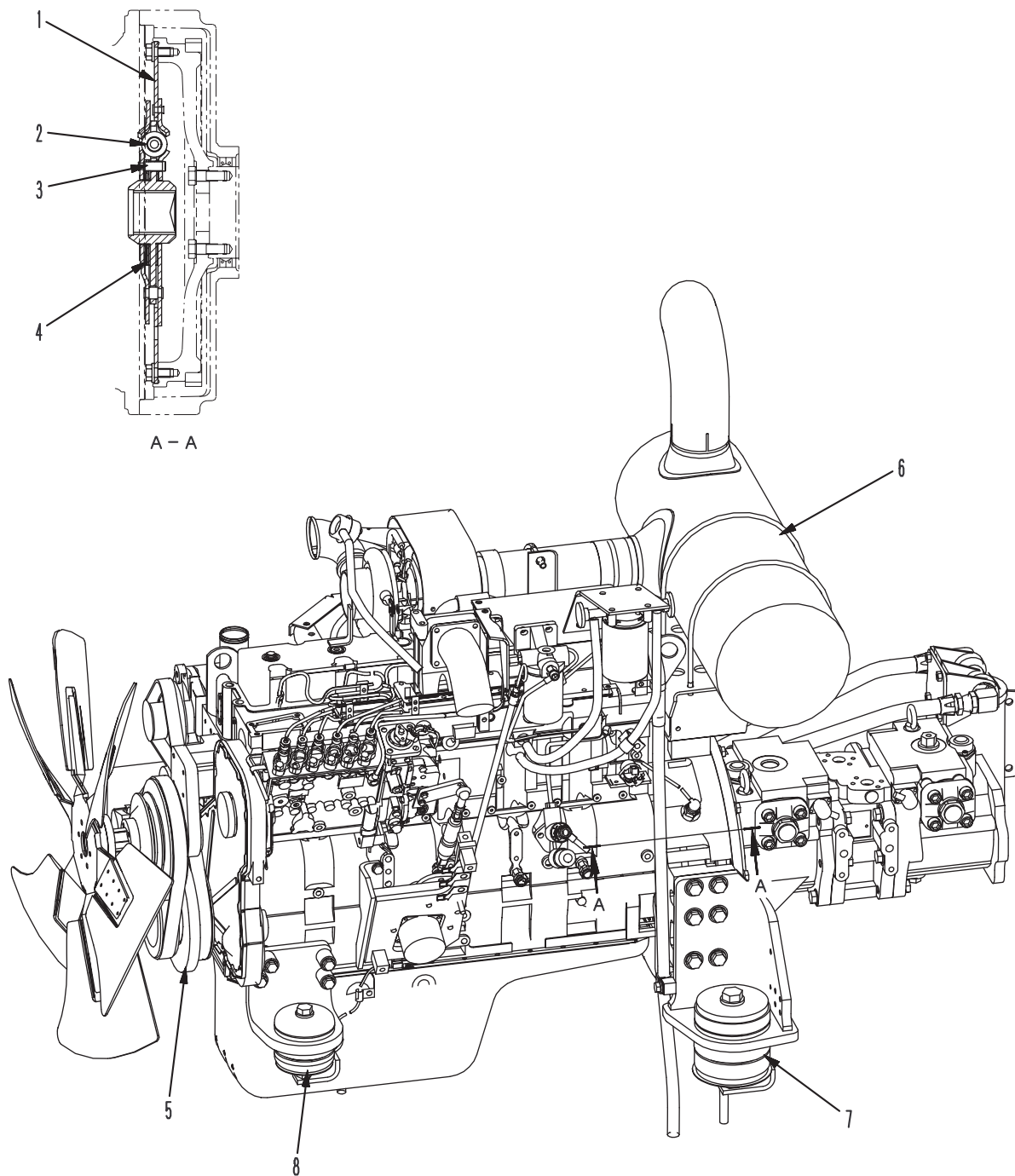
RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE								CAPACITY (l)	
		-22 -30	-4 -20	14 -10	32 0	50 10	68 20	86 30	104°F 40°C	Specified	Refill
Engine oil pan	Engine oil								SAE 30	38	35
									SAE 10W		
									SAE 10W-30		
									SAE 15W-40		
Damper case										1.3	—
Swing machinery case										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	Hydraulic oil								SAE 10W	365	188
									SAE 10W-30		
								SAE 15W-40			
								H046-HM (★)			
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



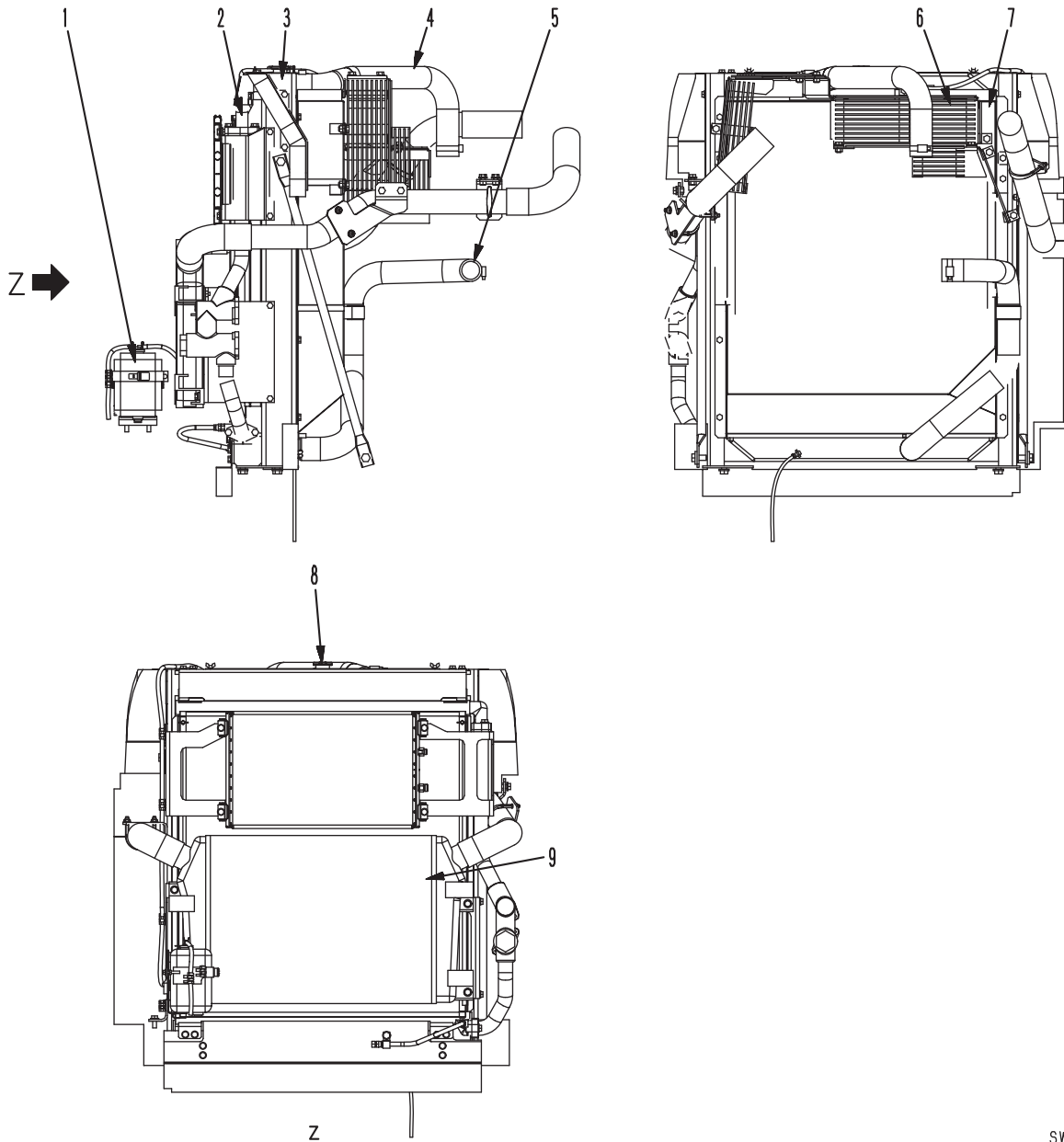
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- | | |
|-------------------|-----------------------|
| 1. Drive plate | 5. Damper assembly |
| 2. Torsion spring | 6. Muffler |
| 3. Stopper pin | 7. Rear engine mount |
| 4. Friction plate | 8. Front engine mount |

OUTLINE

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

RADIATOR • OIL COOLER • AFTERCOOLER



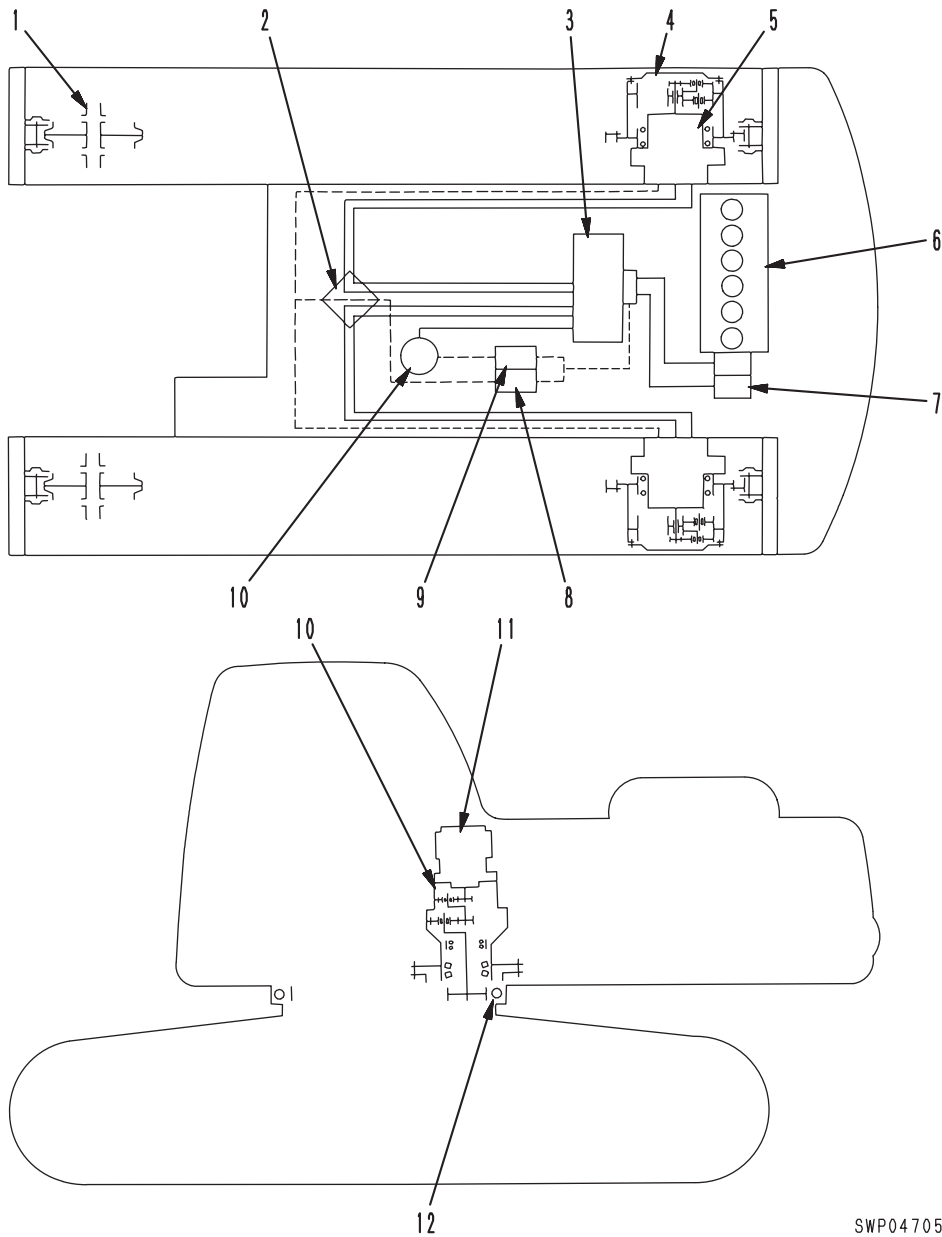
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1. Reservoir tank
2. Oil cooler
3. Radiator
4. Radiator inlet hose
5. Radiator outlet hose
6. Net
7. Shroud
8. Radiator cap
9. Aftercooler

SPECIFICATIONS

Radiator : CF19-4
 Oil cooler : CF40-1

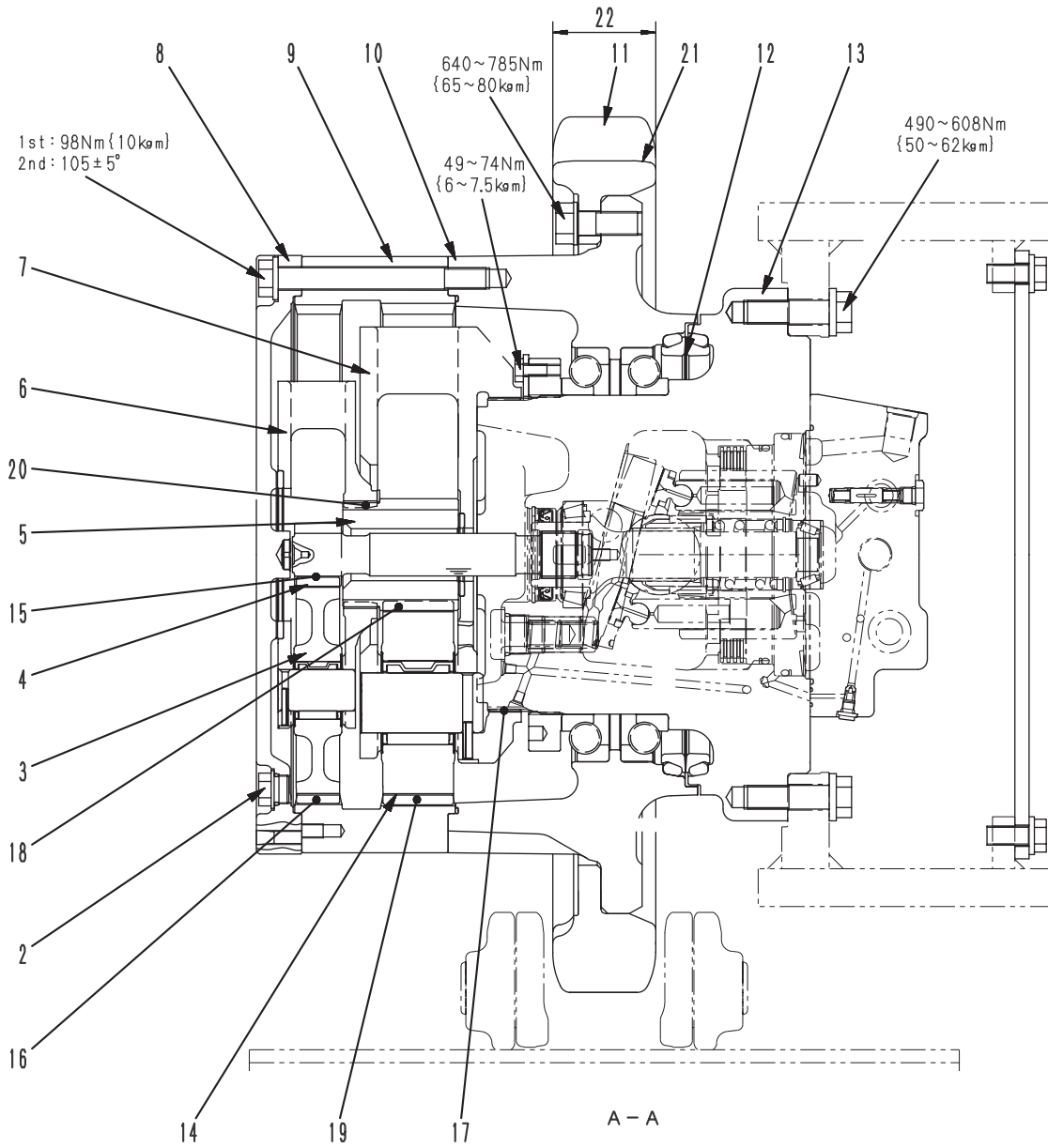
POWER TRAIN



SWP04705

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|--------------------------------|--------------------------------|
| 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 (HMV 160ADT-2) | 11. Swing motor (KMF230ABE-5) |
| 6. Engine (SAA6D114E) | 12. Swing circle |

FINAL DRIVE



SJP08991