SEBM033710

SHOP MANUAL

KOMATSU®

D475A-5

MACHINE MODEL **D475A-5**

SERIAL No. **20001 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.

- D475A-5 mount the SDA12V140E-1 engine.
  For details of the engine, see the 12V140-1 Series Engine Shop Manual.

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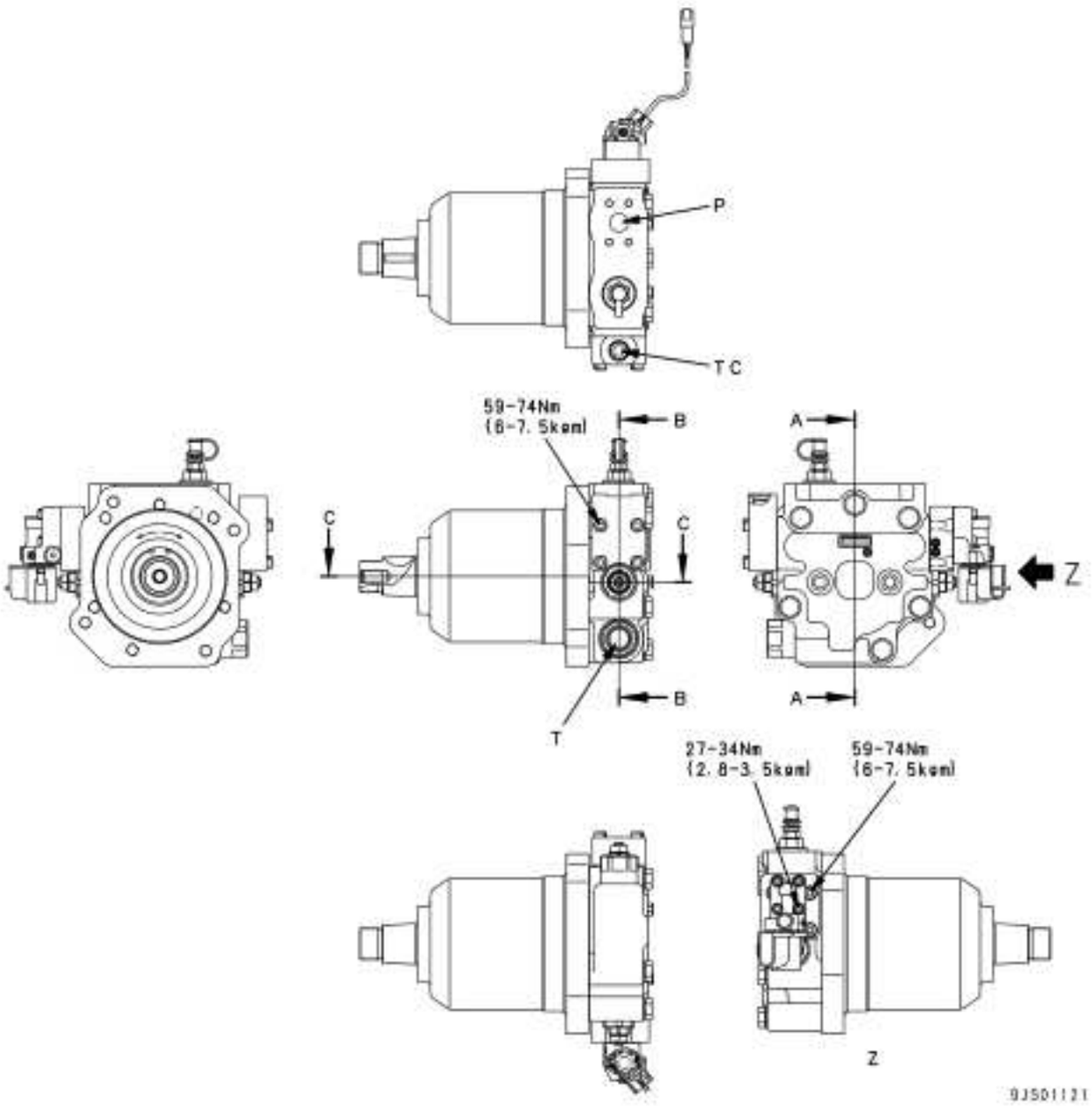
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COOLING FAN MOTOR

Type: LMF180



P : From fan pump
T : From cooler to tank
TC : To tank

Specifications

Type : LMF180
Capacity : 180 cc/rev
Rated speed : 982 rpm
Rated flow : 178 ℓ/min
Check valve cracking pressure:
0.07 MPa {0.7 kg/cm²}

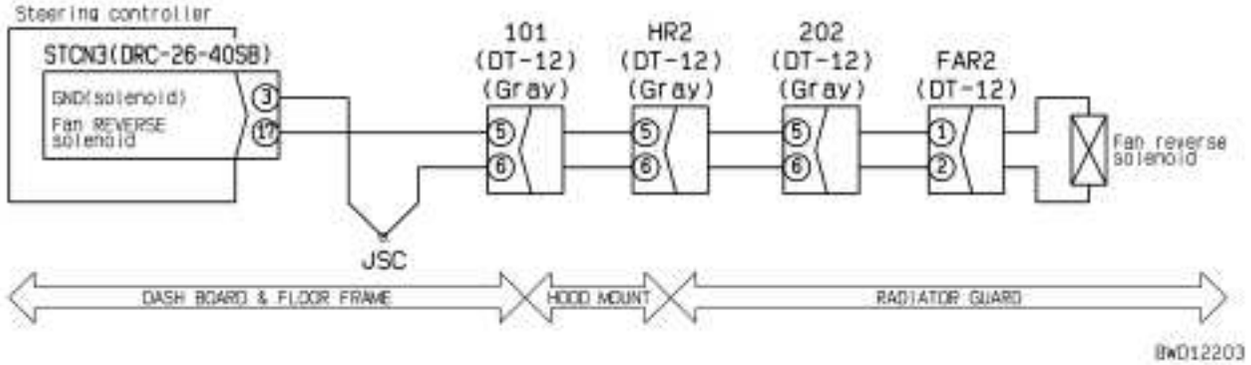
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ERROR CODE [DW7BKB] (FAN REVERSE SOLENOID: SHORT CIRCUIT (KB))

Action code	Error code	Trouble	Fan reverse solenoid: Short circuit (KB) (Transmission controller system)
E01	DW7BKB		
Contents of trouble	• When the signal is output to the fan reverse solenoid circuit, an abnormal current flows.		
Action of controller	• Stops outputting the signal to the fan reverse solenoid.		
Problem that appears on machine	• The fan reverse function cannot be used.		
Related information	• The output state (ON/OFF) to the fan reverse solenoid can be checked in the monitoring mode. (Code 40914: Steering controller ON/OFF output) • Method of reproducing error code: Turn the starting switch ON. + Reverse the fan rotation direction.		

	Cause		Standard value in normal state/Remarks on troubleshooting			
Possible causes and standard value in normal state	1	Defective fan reverse solenoid (Internal short circuit)	★Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			FAR2 (male)	Resistance		
			Between (1) and (2)	34 – 44 Ω		
			Between (1) and chassis ground	Min. 1 MΩ		
	2	Short circuit with chassis ground in wiring harness (Contact with ground circuit)	★Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			Between wiring harness between STCN3 (female) (17) and FAR2 (female) (2) and chassis ground	Resistance	Min. 1 MΩ	
	3	Short circuit in wiring harness (Short circuit between wiring harnesses)	★Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			Between wiring harness between STCN3 (female) (17) and FAR2 (female) (1) and wiring harness between STCN3 (female) (3) and FAR2 (female) (2)	Resistance	Min. 1 MΩ	
	4	Defective transmission controller	★Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			STCN3 (female)	Resistance		
			Between (17) and (3)	34 – 44 Ω		
			Between (17) and chassis ground	Min. 1 MΩ		

Circuit diagram related to fan reverse solenoid



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INFORMATION IN TROUBLESHOOTING TABLE

★ The following information is summarized in the troubleshooting table and the related electrical circuit diagram. Before carrying out troubleshooting, understand that information fully.

Trouble	Trouble in machine
Related information	Information related to detected trouble or troubleshooting

	Cause		Standard value in normal state/Remarks on troubleshooting
Possible causes and standard value in normal state	1 2 3 4	Possible causes of trouble (Given numbers are reference numbers, which do not indicate priority)	<Contents of description> • Standard value in normal state to judge possible causes • Remarks on judgment

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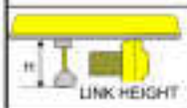
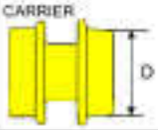
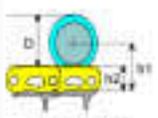
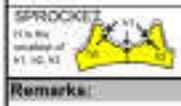
UNDERCARRIAGE TROUBLESHOOTING REPORT (NORMAL)

(Program form No.: SELA195001)

KUC — **Komatsu Undercarriage Inspection**



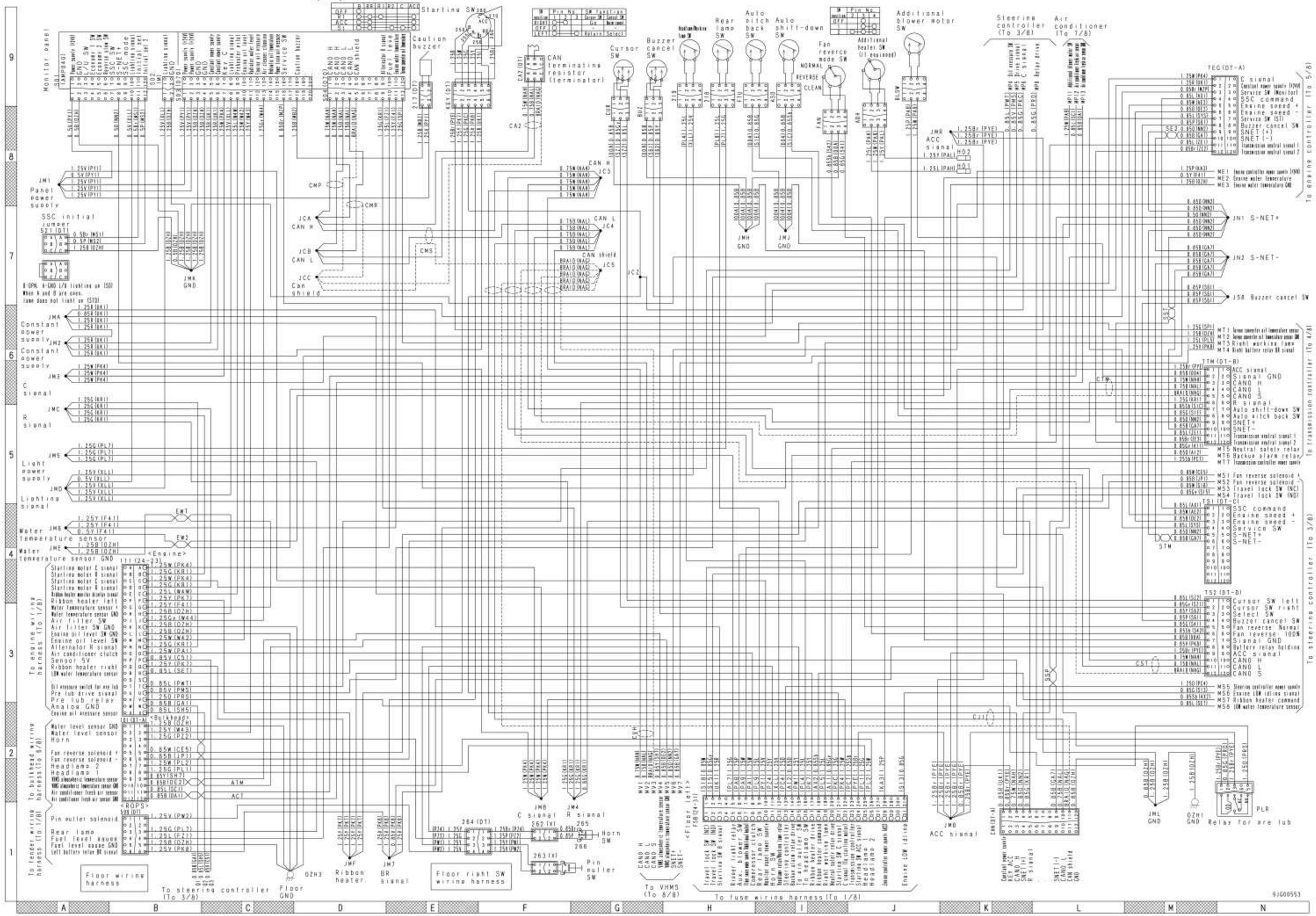
Customer name:			
Address:			
Model	D475A-5	Serial#	20001
Equip#		Work Order No	
Location		SMR		Wet,AR,HD or Dry	WET
Soil condition		Dealer		Shoe width (mm)	
Working condition		Inspector		Shoe type	SINGLE
Insp.Date(yyyy/mm/dd)		(yyyy/mm)		Wear type	NORMAL

			New	100% Wear	Measured mm	Wear %	SMR New	SMR Rebuilt	Hours on Parts:	Comments/Observation
LINK PITCH 	ft	LH	1271.0	1283.0						
		RH	1271.0	1283.0						
	M	LH	317.80	320.80						
		RH	317.80	320.80						
 LINK HEIGHT		LH	199.0	181.0						
		RH	199.0	181.0						
BUSHING 		LH	116.0	107.5			New	Turned		
		RH	116.0	107.5			New	Turned		
GROUSER HIGHT 		LH	105.0	35.0						
		RH	105.0	35.0						
CARRIER 	Front	LH	240.0	215.0						
		RH	240.0	215.0						
	Rear	LH	240.0	215.0						
		RH	240.0	215.0						
IDLER 	Front	LH	26.5	42.0						
		RH	26.5	42.0						
	Rear	LH	26.5	42.0						
		RH	26.5	42.0						
TRACK ROLLER  D=2(h1 - h2)	1	LH	300.0	230.0						
	2	LH	300.0	246.0						
	3	LH	300.0	246.0						
	4	LH	300.0	246.0						
	5	LH	300.0	246.0						
	6	LH	300.0	246.0						
	7	LH	300.0	230.0						
	8	LH	300.0	230.0						
	9	LH	300.0	230.0						
	10	LH	300.0	230.0						
	1	RH	300.0	230.0						
	2	RH	300.0	246.0						
	3	RH	300.0	246.0						
	4	RH	300.0	246.0						
	5	RH	300.0	246.0						
	6	RH	300.0	246.0						
	7	RH	300.0	230.0						
	8	RH	300.0	230.0						
	9	RH	300.0	230.0						
	10	RH	300.0	230.0						
SPROCKET 		LH	0.0	6.0						
		RH	0.0	6.0						

Remarks:

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ELECTRICAL CIRCUIT DIAGRAM (2/8)



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