SHOP MANUAL

KOMATSU®

D375A-5

VHMS Specification

Machine model Serial number

D375A-5 (VHMS Specification) 18052 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.

- D375A-5 mounts the SA6D170E-3 engine.
  For details of the engine, see the 170-3 Series Engine Shop Manual.

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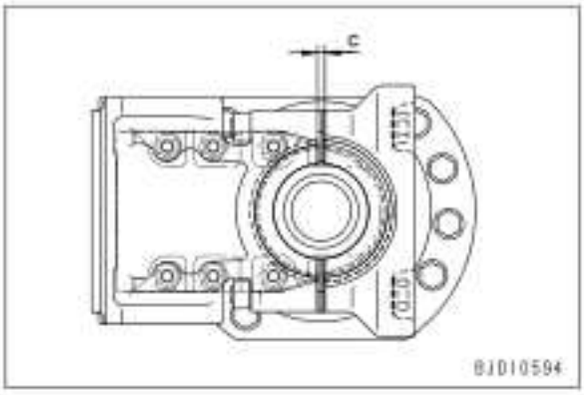
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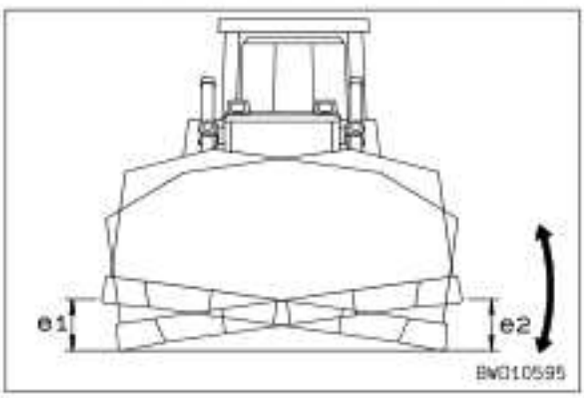
3) Use shims to adjust the clearance at trunnion portion (3) (shim adjustment type).

Adjustment location	Clearance	Standard clearance	Standard shim thickness
3	c	1.56±0.65mm Total clearance	12mm



2. Adjusting blade tilt

1) Adjust installation dimension **d** of brace (4) with the handle.
   - Installation dimension **d** of brace (3): 1554 mm
2) Measure left and right tilt **e1** and **e2**.
   - Right tilt **e1**: Approx. 700 mm
   - Left tilt **e2**: Approx. 700 mm
3) If the tilt is not the same on the left and right sides, adjust installation dimension **d** of brace (4) as follows to give the same tilt on both sides.
   - **e1** > **e2**: Carry out fine adjustment to make installation dimension **d** longer
   - **e1** < **e2**: Carry out fine adjustment to make installation dimension **d** shorter



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ERROR CODE [C222KX] (ABNORMALLY LOW LEVEL IN ATMOSPHERIC PRESSURE SENSOR SYSTEM)

User code	Error code	Trouble	Abnormally low level in atmospheric pressure sensor system (Engine controller system)
CALL E03	C222KX		
Contents of trouble	• Signal voltage of atmospheric pressure sensor circuit is below 0.20 V.		
Action of controller	• Flashes caution lamp and turns on caution buzzer.		
Problem that appears on machine			
Related information	• Method of reproducing error code: Turn starting switch ON.		

Possible causes and standard value in normal state	Cause	Standard value in normal state/Remarks on troubleshooting
	Carry out troubleshooting for error code [C221KX].	

ERROR CODE [C234N1] (OVER-SPEED)

User code	Error code	Trouble	Over-speed (Engine controller system)
—	C234N1		
Contents of trouble	• Engine speed sensor detected speed higher than speed set in controller. • Criterion (for reference): Min. 2,400 rpm		
Action of controller	• Closes fuel rail actuator fully (Cuts out fuel).		
Problem that appears on machine			
Related information	• Method of reproducing error code: Start engine.		

Possible causes and standard value in normal state		Cause	Standard value in normal state/Remarks on troubleshooting
	1	Defective related systems	Check displayed error codes. If code related to engine controller is displayed, carry out troubleshooting for it first.
	2	Defective engine	See S mode.

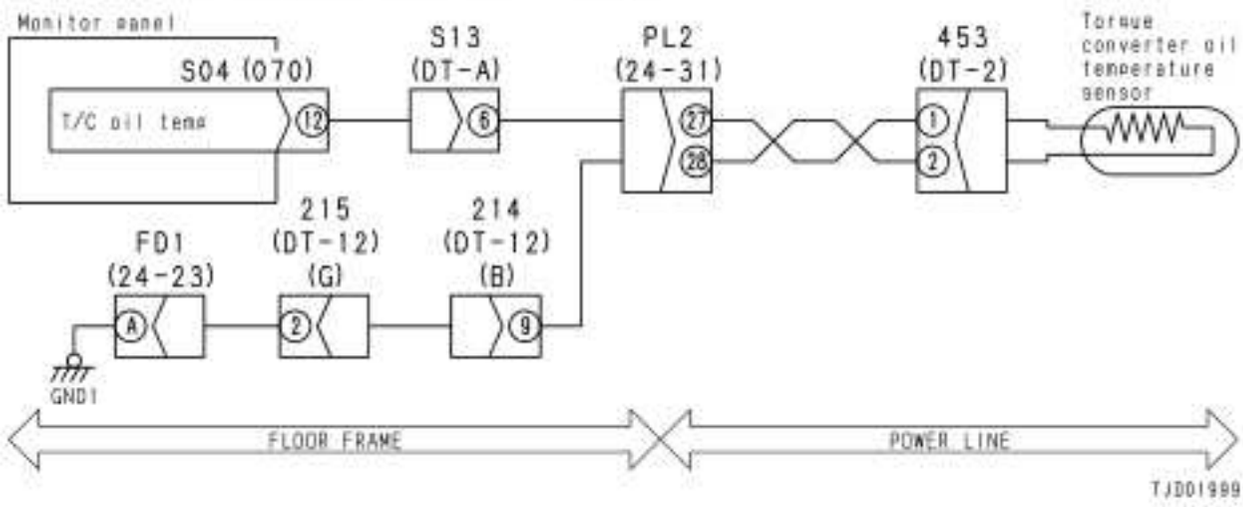
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E-13 THE DISPLAY OF THE TORQUE CONVERTER OIL TEMPERATURE GAUGE IS NOT NORMAL

Trouble	• The display of the torque converter oil temperature gauge is not normal.
Related information	

	Cause		Standard value in normal state/Remarks on troubleshooting			
Possible causes and standard value in normal state	1	Torque converter oil temperature sensor failure (Internal disconnection/short circuit)	★Prepare the engine with the starting switch OFF and diagnose it with the starting switch OFF as is.			
			453 (male)	Torque converter oil temperature	Resistance value	
			Between (1) and (2)	10 – 100°C	Approx. 80 k – approx. 3.8 kΩ	
			Between (1) and ground		Min. 1 MΩ	
	2	Harness disconnection failure (Disconnection/connector contact failure)	★Prepare the engine with the starting switch OFF and diagnose it with the starting switch OFF as is.			
			Between harnesses between S04 (female) (12) and 453 (female) (1)	Resistance value	Max. 1 Ω	
			Between harnesses between 453 (female) (2) and ground	Resistance value	Max. 1 Ω	
	3	Harness ground fault (GND circuit and contact)	★Prepare the engine with the starting switch OFF and diagnose it with the starting switch OFF as is.			
			Between harness and ground between S04 (female) (12) and 453 (female) (1)	Resistance value	Min. 1 MΩ	
	4	Harness hot short-circuiting failure (24 V circuit and contact)	★Prepare the engine with the starting switch OFF and diagnose it with the starting switch ON.			
			Between harness and ground beytween S04 (female) (12) and 453 (female) (1)	Voltage	Max. 1 V	
	5	Monitor panel failure (Caution module)	★Prepare the engine with the starting switch OFF and diagnose it with the starting switch OFF as is.			
			S04 (female)	Torque converter oil temperature	Resistance value	
			Between (12) and ground	10 – 100°C	Approx. 80 k – approx. 3.8 kΩ	

Torque converter oil temperature-related circuit diagram



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UNDERCARRIAGE TROUBLESHOOTING REPORT (IMPACT)

(Program form No.: SELA195001)

KUC

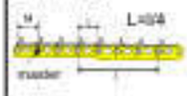
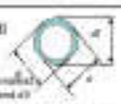
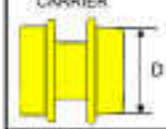
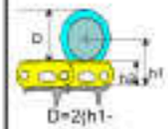
Komatsu
Undercarriage Inspection



Customer name:

Address:

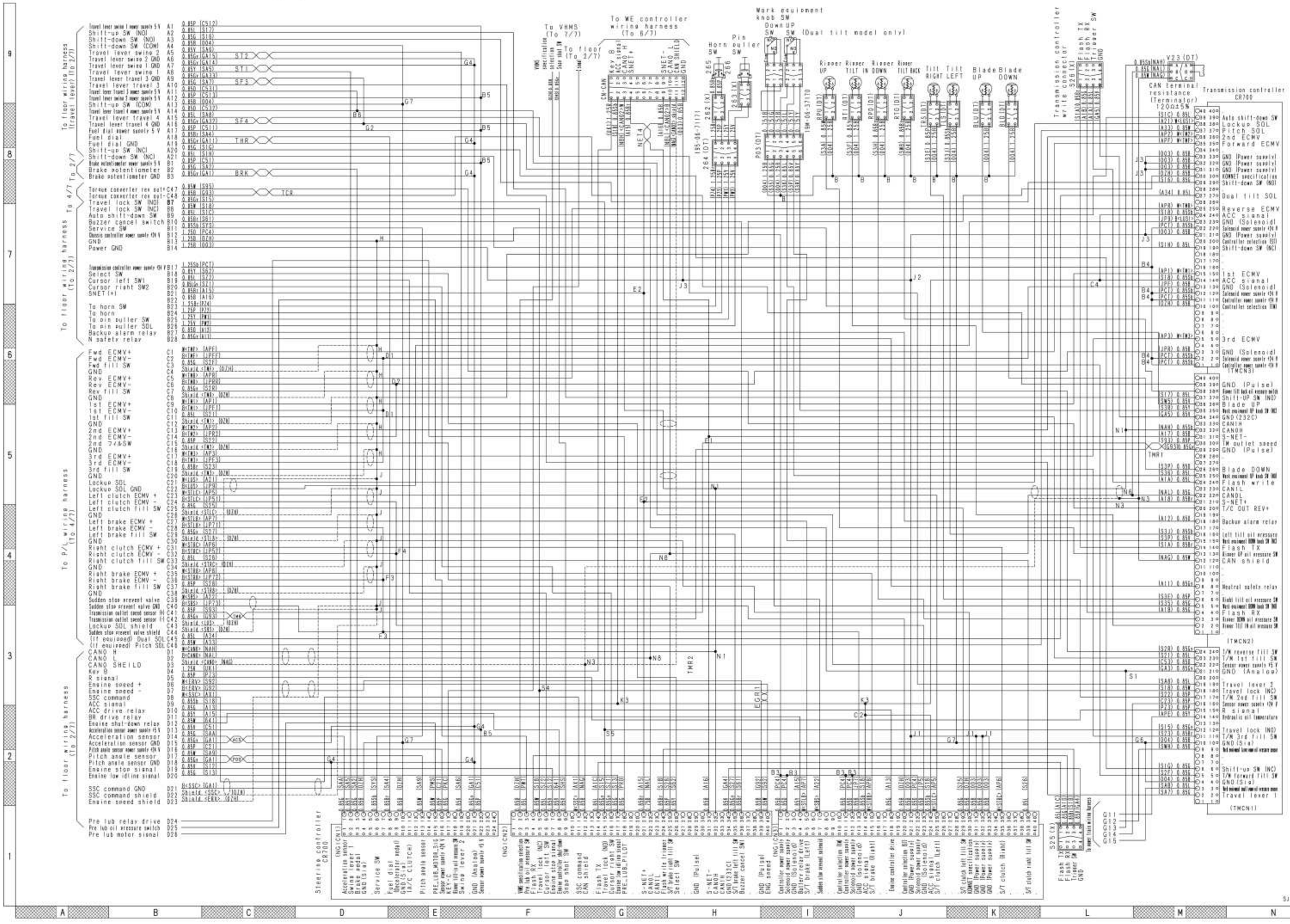
Model	D375A-5	Serial#		Equip#		Work Order No	
Location		SMR				Wet,AR,HD or Dry	Wet
Soil condition		Dealer				Shoe width (mm)	
Working condition		Inspector				Shoe type	SINGLE
		Insp.Date(yy/mm/dd)			(yy/mm/dd)	Wear type	IMPACT

			New	100% Wear	Measured mm	Wear %	SMR New	SMR Rebuilt	Hours on Parts:	Comments/Observation
LINK PITCH 	R	LH	1121.2	1133.2						
		RH	1121.2	1133.2						
	M	LH	280.30	283.30						
		RH	280.30	283.30						
 LINK HEIGHT		LH	161.0	163.0						
		RH	161.0	163.0						
BUSHING 		LH	98.5	92.5			New	Turned		
		RH	98.5	92.5			New	Turned		
GROUSER HEIGHT 		LH	93.0	30.0						
		RH	93.0	30.0						
CARRIER 	Front	LH	210.0	185.0						
		RH	210.0	185.0						
	Rear	LH	210.0	185.0						
		RH	210.0	185.0						
IDLER 	Front	LH	23.5	36.0						
		RH	23.5	36.0						
	Rear	LH	23.5	36.0						
		RH	23.5	36.0						
TRACK ROLLER  D=2(h1-	1	LH	270.0	200.0						
	2	LH	270.0	200.0						
	3	LH	270.0	200.0						
	4	LH	270.0	200.0						
	5	LH	270.0	200.0						
	6	LH	270.0	200.0						
	7	LH	270.0	200.0						
	8	LH	270.0	200.0						
	9	LH	270.0	200.0						
	10	LH	270.0	200.0						
	1	RH	270.0	200.0						
	2	RH	270.0	200.0						
	3	RH	270.0	200.0						
	4	RH	270.0	200.0						
	5	RH	270.0	200.0						
	6	RH	270.0	200.0						
	7	RH	270.0	200.0						
	8	RH	270.0	200.0						
	9	RH	270.0	200.0						
	10	RH	270.0	200.0						
SPROCKET 		LH	0.0	6.0						
		RH	0.0	6.0						

Remarks:

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ELECTRICAL CIRCUIT DIAGRAM (3/7)



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