VEBM610101

SHOP MANUAL

WA250-6
WA250PZ-6

KOMATSU®

MACHINE MODEL	SERIAL NUMBER
WA250-6	75001 and up
WA250PZ-6	75160 and up H00051 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.

- WA250-6 and WA250PZ-6 mounts the SAA6D107E-1 engine.

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Releasing remaining pressure in hydraulic circuit

Releasing remaining pressure between each hydraulic cylinder and control valve

★ If the piping between the hydraulic cylinder and the control valve is to be disconnected, release the remaining pressure from the circuit as follows.

1. Lower the work equipment to the ground, and stop the engine.
2. Loosen the oil filler cap slowly to release the pressure inside the tank.
3. Operate the control levers.
   ★ When the levers are operated 5 – 6 times to release all the remaining pressure.

Releasing remaining pressure in brake accumulator circuit

★ If the piping between the ACC charge valve and brake accumulator, between the ACC charge valve and parking brake valve, and between the accumulator and brake valve is to be disconnected, release the remaining pressure from the circuit as follows.

1. Stop the engine.
2. Depress the brake pedal at least 100 times to release the pressure inside the brake accumulator circuit.

Releasing remaining pressure in PPC accumulator circuit

★ If the piping between the PPC accumulator and PPC valve is to be disconnected, release the remaining pressure from the circuit as follows.

1. Lower the work equipment to the ground, and stop the engine.
2. Operate the control lever 5 – 6 times to release all the remaining pressure from the circuit.

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Failure code [CA1633] KOMNET datalink timeout error

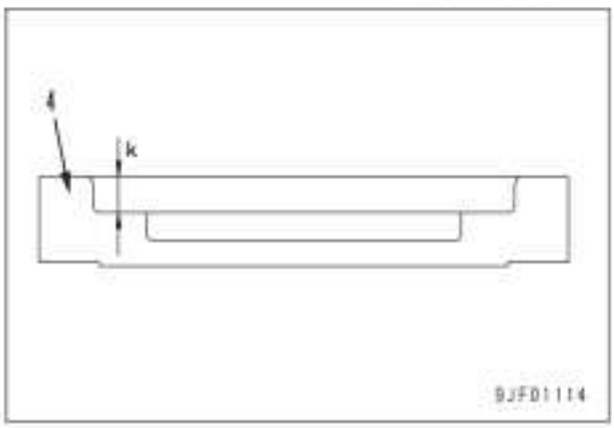
Action code	Failure code	Trouble	KOMNET datalink timeout error (Engine controller system)
E03	CA1633		
Contents of trouble	• Engine controller detected a communication error in the KOMNET communication circuit used for the communication between the HST controller and machine monitor.		
Action of controller	• Continues the operation from the default mode. • Turns the centralized warning lamp and alarm buzzer ON. • If problem is removed, system is returned to normal operating state.		
Problem that appears on machine	• KOMNET communication information may not be transmitted correctly to cause incorrect operation of machine. (Problem depends on failure occurrence location.)		
Related information	• If failure code [DAJRKR] is indicated simultaneously, carry out troubleshooting for it first. • Method of reproducing failure code: Turn the starting switch ON.		

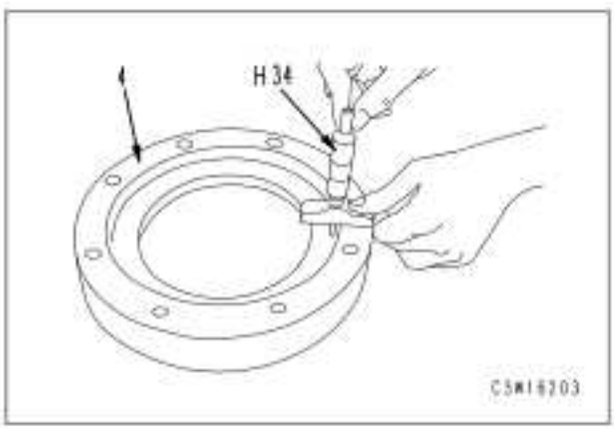
	Causes		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective CAN end point resistance	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			CAN1 (male)	Resistance	
			Between (A) and (B)	110 – 140 Ω	
			★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			CAN2 (male)	Resistance	
			Between (A) and (B)	110 – 140 Ω	
	2	Disconnection in wiring harness (Disconnection or defective contact in connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between EC2 (female) (46), (47) – HST (female) (28), (38)	Resistance	Max. 1 Ω
			Wiring harness between EC2 (female) (46), (47) – L29 (female) (3), (8)	Resistance	Max. 1 Ω
			Wiring harness between EC2 (female) (46), (47) – L72 (female) (22), (32)	Resistance	Max. 1 Ω
			Wiring harness between EC2 (female) (46), (47) – L80 (female) (7), (8)	Resistance	Max. 1 Ω
			Wiring harness between EC2 (female) (46), (47) – CAN1 (female) (A), (B)	Resistance	Max. 1 Ω
			Wiring harness between EC2 (female) (46), (47) – CAN2 (female) (A), (B)	Resistance	Max. 1 Ω

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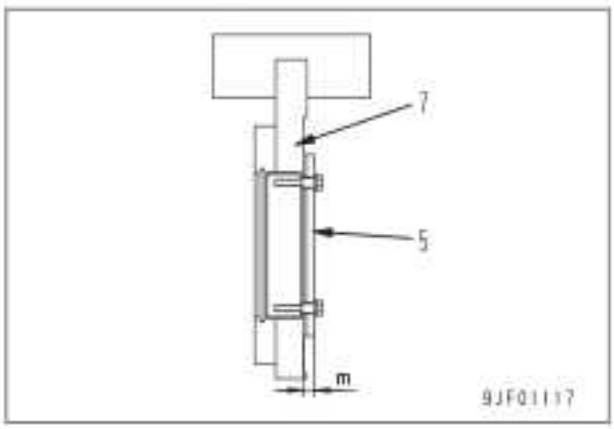
20. Adjust the shim of cover (trunnion cap) (4).

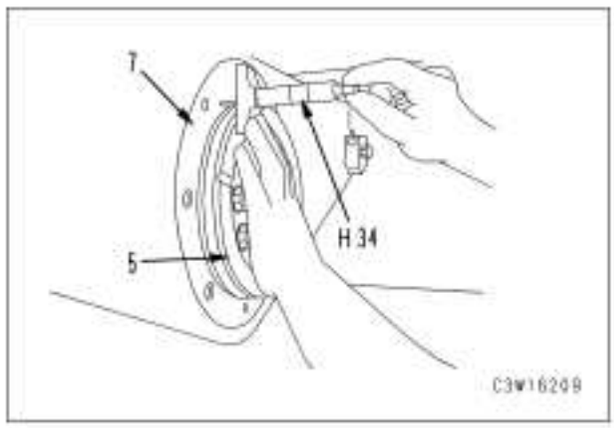
1) Measure dimension (k) of cover (4) with tool **H34** at 4 places on the diagonal lines and obtain the average.
   - ★ Clean the contact face of the depth micrometer thoroughly.
   - • Standard average value (k): **19.85 – 20.00 mm**





2) Measure dimension (m) between rear axle support (7) and thrust washer (5) with tool **H34** at 4 places on the diagonal lines and obtain the average.
   - ★ Clean the contact face of the tool **H34** (depth micrometer) thoroughly.
   - • Standard average value (m) (Reference): **19.65 – 20.00 mm**

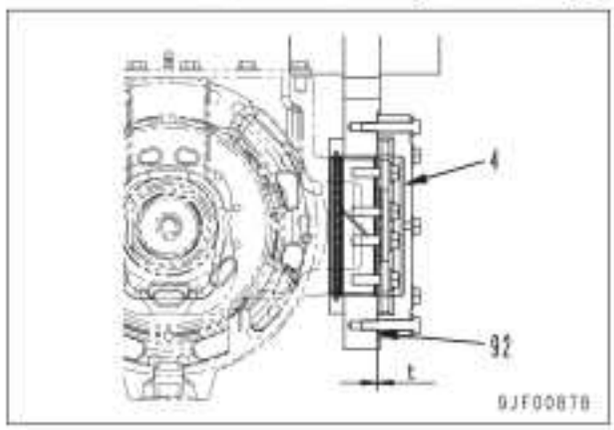




3) Calculate shim thickness (t).
   - • Shim thickness (t) = (m) – (k)
   - ★ Decide the number of the shims by the calculated shim thickness and the following table.
   - • Shim thickness (1 piece): 0.2 mm

Shim thickness	Number of shims
0 – 0.07 mm	1
0.08 – 0.27 mm	2
0.28 – 0.47 mm	3

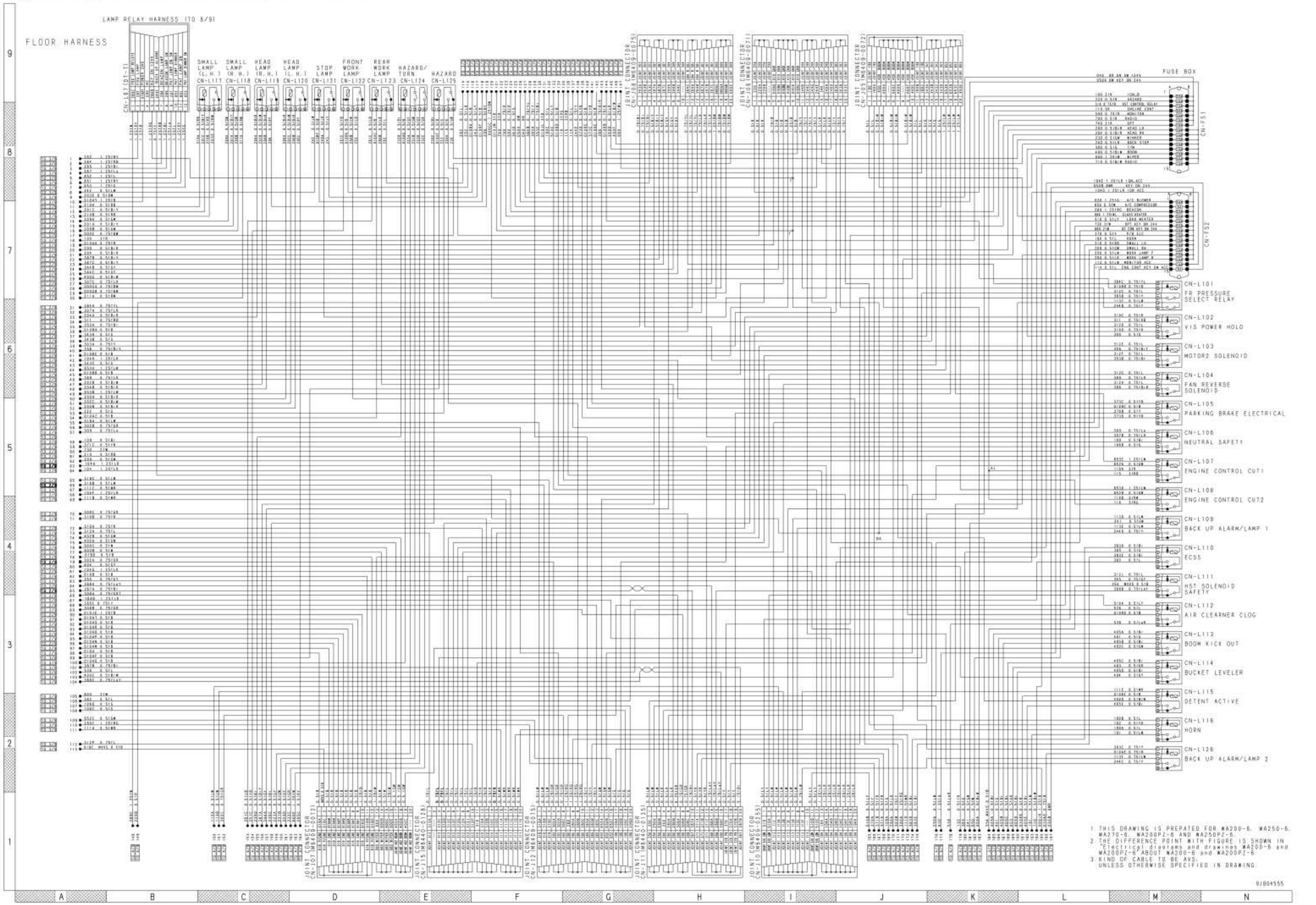
4) Install selected shim (92), and then install cover (4) again.
   - Cover: **Grease (G2-LI)**
   - Mounting bolt: **93.1 – 122.5 Nm {9.5 – 12.5 kgm}**



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Electrical circuit diagram (1/9)

★ This figure covers the equipment and devices that are unavailable as optional items in some areas.



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