SHOP MANUAL

KOMATSU®

D275AX-5

Landfill specification

MACHINE MODEL	SERIAL NUMBER
D275AX-5 (Landfill specification)	**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.

- D275AX-5 mounts the SDA6D140E-3 engine.
  For details of the engine, see the 140-3 Series Engine Shop Manual.

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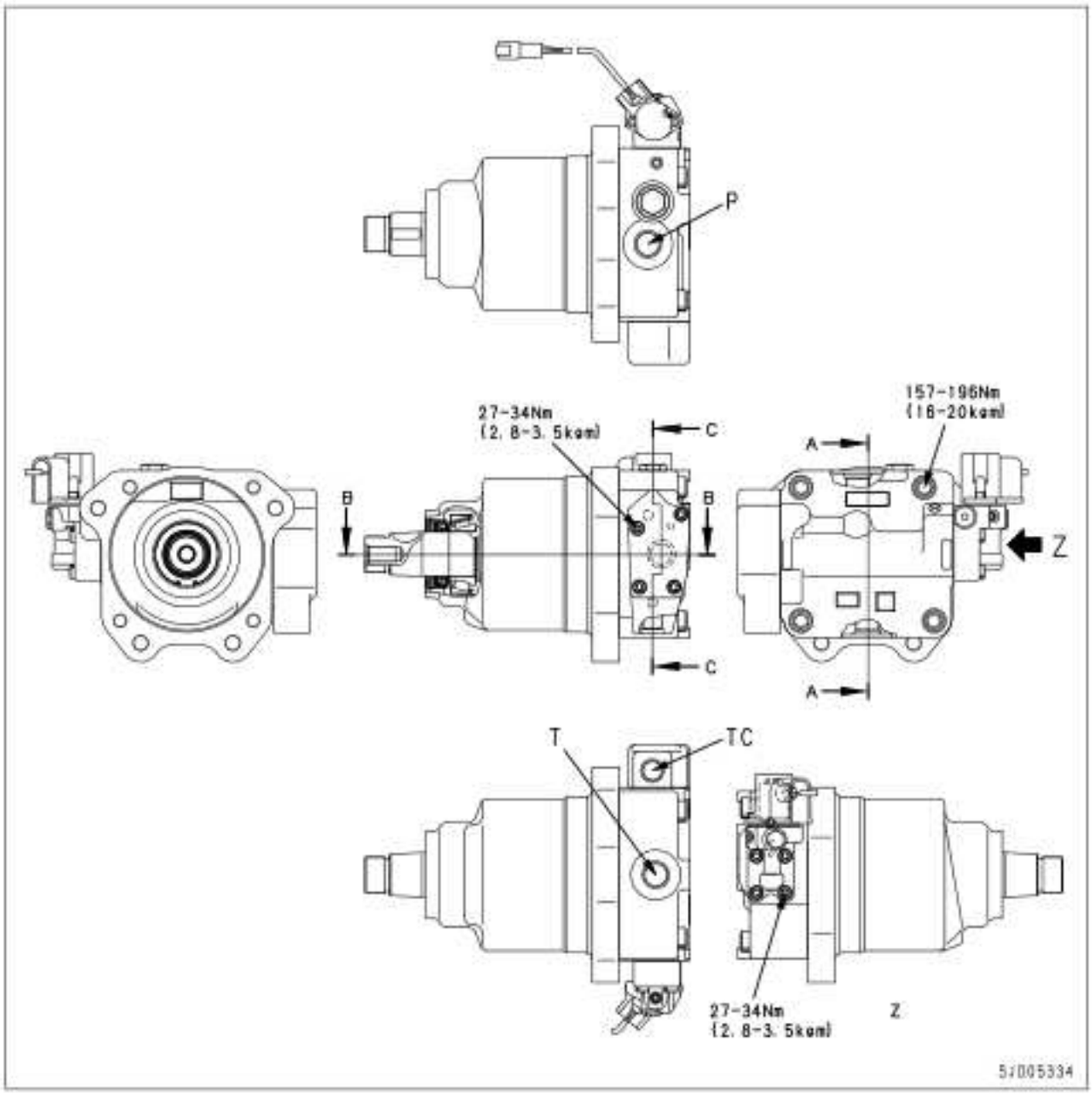
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The items marked with ★describe only the use on landfill specification.

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COOLING FAN MOTOR

LMF75



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

Specifications

Model: LMF75
Capacity: 75 cc/rev
Rated speed: 1,050 rpm
Rated flow rate: 78.8 ℓ/min
Cracking pressure of check valve:
76.5 kPa {0.78 kg/cm^2}

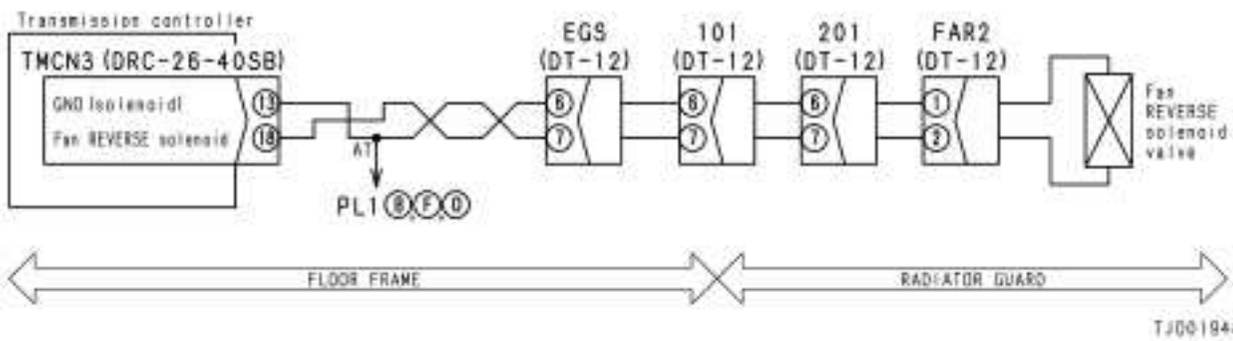
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ERROR CODE DW7BKB (FAN REVERSE SOLENOID: SHORT CIRCUIT (KB))

Action code	Error code	Controller code	Trouble	Fan reverse solenoid: Short circuit (KB) (Transmission controller system)
E01	DW7BKB	Transmission		
Contents of trouble	• When signal was output to fan reverse solenoid circuit, abnormal current flowed.			
Action of controller	• Stops outputting to fan reverse solenoid circuit.			
Problem that appears on machine	• The fan reversing function cannot be used.			
Related information	• Output (Current) to fan reverse solenoid can be checked in monitoring mode. (Code 40909: Cooling fan reverse solenoid output current) • Method of reproducing service code: Turn starting switch ON and operate fan in reverse.			

	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.			
			FARC (male)	Resistance		
			Between (1) – (2)	34 – 44Ω		
			Between (1) – chassis ground	Min. 1MΩ		
	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.			
			Short circuit of wiring harness between TMCN3 (female) (18) – FAR2 (female) (1) with chassis ground	Resistance	Min. 1MΩ	
	3	Short circuit in wiring harness (with another wiring harness)	★Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			Short circuit in wiring harness between TMCN3 (female) (18) – FAR2 (female) (1) with wiring harness between TMCN3 (female) (13) – FAR2 (female) (2)	Resistance	Min. 1MΩ	
	4	Defective transmission controller	★Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.			
			TMCN3	Resistance		
			Between (18) – (13)	34 – 44Ω		
			Between (18) – chassis ground	Min. 1MΩ		

Circuit diagram related to fan reverse solenoid



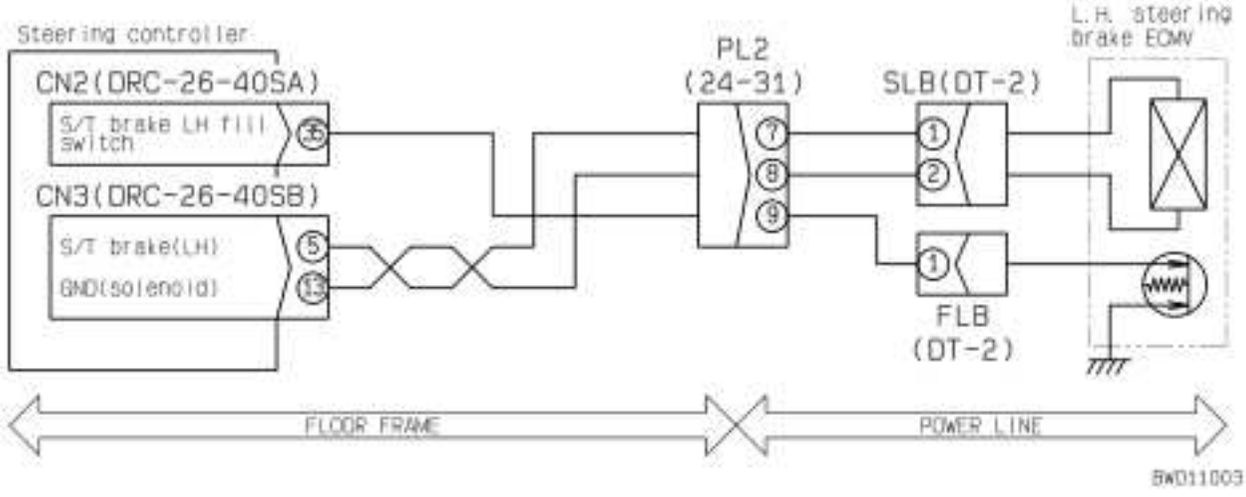
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ERROR CODE DXHCKB (LEFT BRAKE ECMV: SHORT CIRCUIT (KB))

Action code	Error code	Trouble	Left brake ECMV: Short circuit (KB) (Steering controller system)
CALL E04	DXHCKB		
Contents of trouble	• When signal was output to left steering brake solenoid circuit, abnormal current flowed.		
Action of controller	• Flashes caution lamp and turns on caution buzzer. • Stops outputting to left steering brake solenoid circuit. • Limits operation of engine, transmission, and brake.		
Problem that appears on machine	• Brake is applied lightly during travel. • Once machine is stopped, engine speed is limited to medium (half). • Once machine is stopped, it cannot travel any more.		
Related information	• Output (Current) to left steering brake solenoid can be checked in monitoring mode. (Code 31621, 31619: Output current of left steering brake ECMV) • Method of reproducing error code: Start engine and release parking brake lever.		

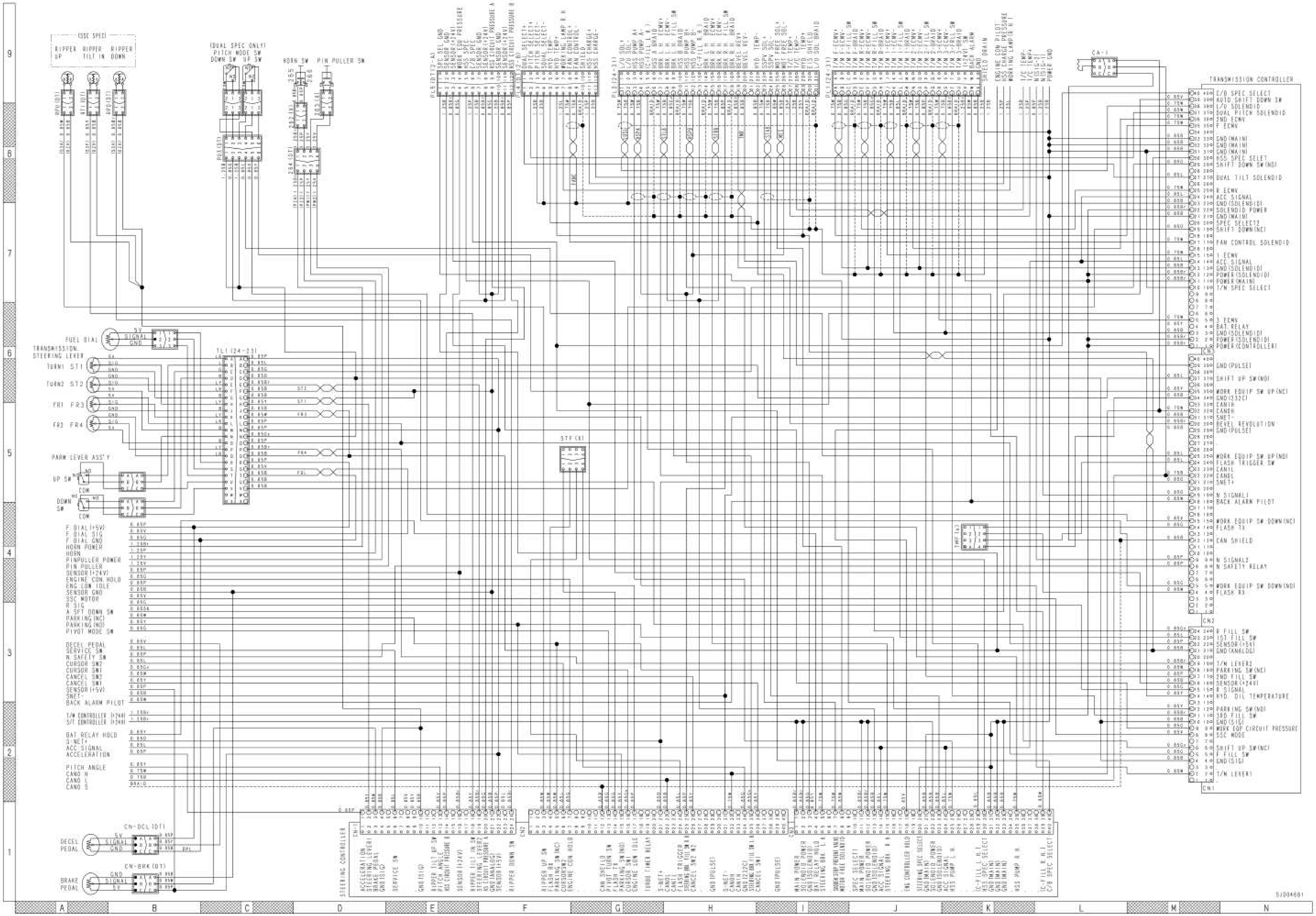
	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective left steering brake solenoid (Internal short circuit)	★Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			SLB (male)	Resistance	
			Between ① – ②	5 – 15Ω	
			Between ① – chassis ground	Min. 1MΩ	
	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.		
			Short circuit of wiring harness between STCN3 (female) ⑤ – SLB (female) ① with chassis ground	Resistance	Min. 1MΩ
	3	Short circuit in wiring harness (with another wiring harness)	★Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Short circuit in wiring harness between STCN3 (female) ⑤ – SLB (female) ① with wiring harness between STCN3 (female) ⑬ – SLB (female) ②	Resistance	Min. 1MΩ
	4	Defective steering controller	★Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.		
			STCN3	Resistance	
			Between ⑤ – ⑬	5 – 15Ω	
			Between ⑤ – chassis ground	Min. 1MΩ	

Circuit diagram related to left steering brake ECMV



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DIAGRAM FOR ELECTRICAL CIRCUIT (3/5)



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