SEN00596-17

Shop Manual

BULLDOZER

D155AX-6

SERIAL NUMBERS 80001 and up

ecot3

KOMATSU®

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Machine model					D155AX-6
Serial number					80001 and up
Undercarriage	Suspension				Rigid, balancing beam type
	Carrier roller				2 each side
	Track roller				7 each side
	Track shoe (shoe width: 560 mm)				Assembly type, single grouser, 42 each side, pitch: 228.6 mm
Lubrication pump + power train (tandem)					Gear type (SAR(3)100 + (3)40)
Scavenging pump (tandem)					Gear type (SAR(4) + 140)
Work equipment hydraulic system	Control valve	Variable multi-shark ripper type			1+1+3 tandem spool type, hydraulically assisted type, electrical control
		• For ripper tilt			+ Ripper tilt
		• For ripper lift			+ Ripper lift
		• For blade lift			
		• For blade tilt			+ (Blade lift + blade tilt + steering)
		• For steering			
	Hydraulic cylinder	Type			Reciprocal, piston type
		Dimensions of blade lift	Cylinder bore	mm	110
			Piston rod outer diameter	mm	75
			Max. piston stroke	mm	1,404
			Max. distance between pins	mm	2,093
			Min. distance between pins	mm	687.5
		Dimensions of blade tilt (For sigma-tilt dozer)	Cylinder bore	mm	160
			Piston rod outer diameter	mm	90
			Max. piston stroke	mm	205
			Max. distance between pins	mm	1,395
			Min. distance between pins	mm	1,190
		Dimensions of blade tilt (For semi U-dozer)	Cylinder bore	mm	160
			Piston rod outer diameter	mm	90
			Max. piston stroke	mm	210
			Max. distance between pins	mm	1,475
			Min. distance between pins	mm	1,265

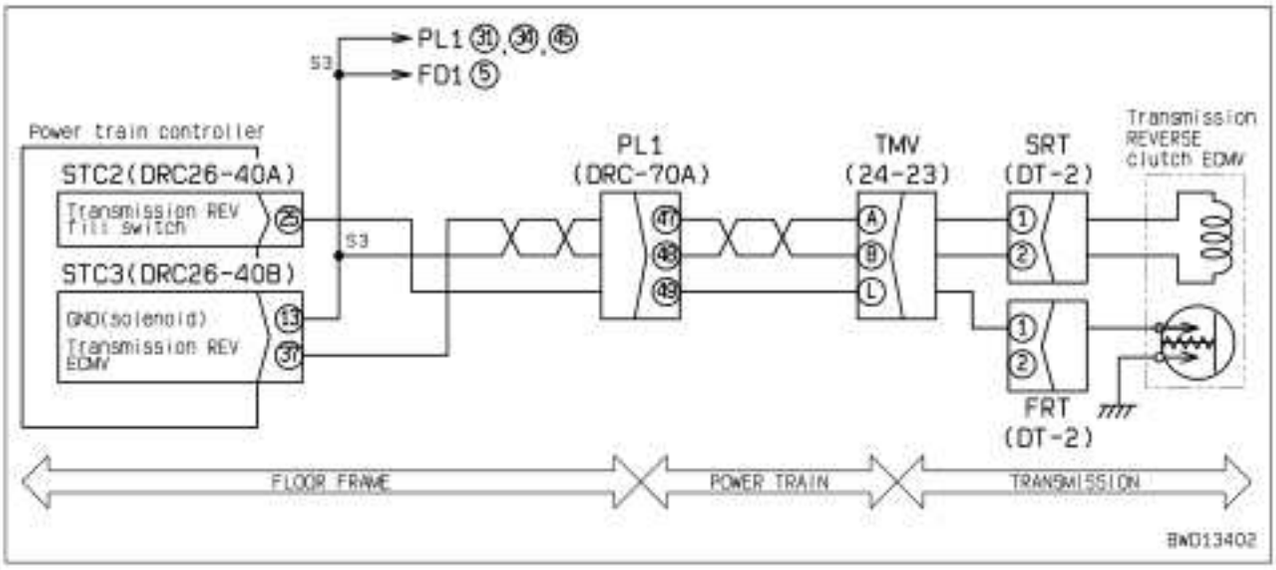
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Failure code [DXH7KY] R clutch ECMV: Short circuit

Action code	Failure code	Trouble	R clutch ECMV: Short circuit (Power train controller system)
E04	DXH7KY		
Contents of trouble	• When signal was output to transmission R clutch ECMV solenoid circuit, abnormal current flowed.		
Action of controller	• Turns signal to transmission R clutch ECMV solenoid circuit OFF. • Limits operation of engine and transmission.		
Problem that appears on machine	• Once machine is stopped, engine speed is limited to medium (half). • Once machine is stopped, travel is limited to F1.		
Related information	• Output to R clutch ECMV solenoid can be checked with monitoring function. (Code: 31616 T/M Clutch R ECMV (F/B)) • Method of reproducing failure code: Start engine + Set gear to R (Reverse).		

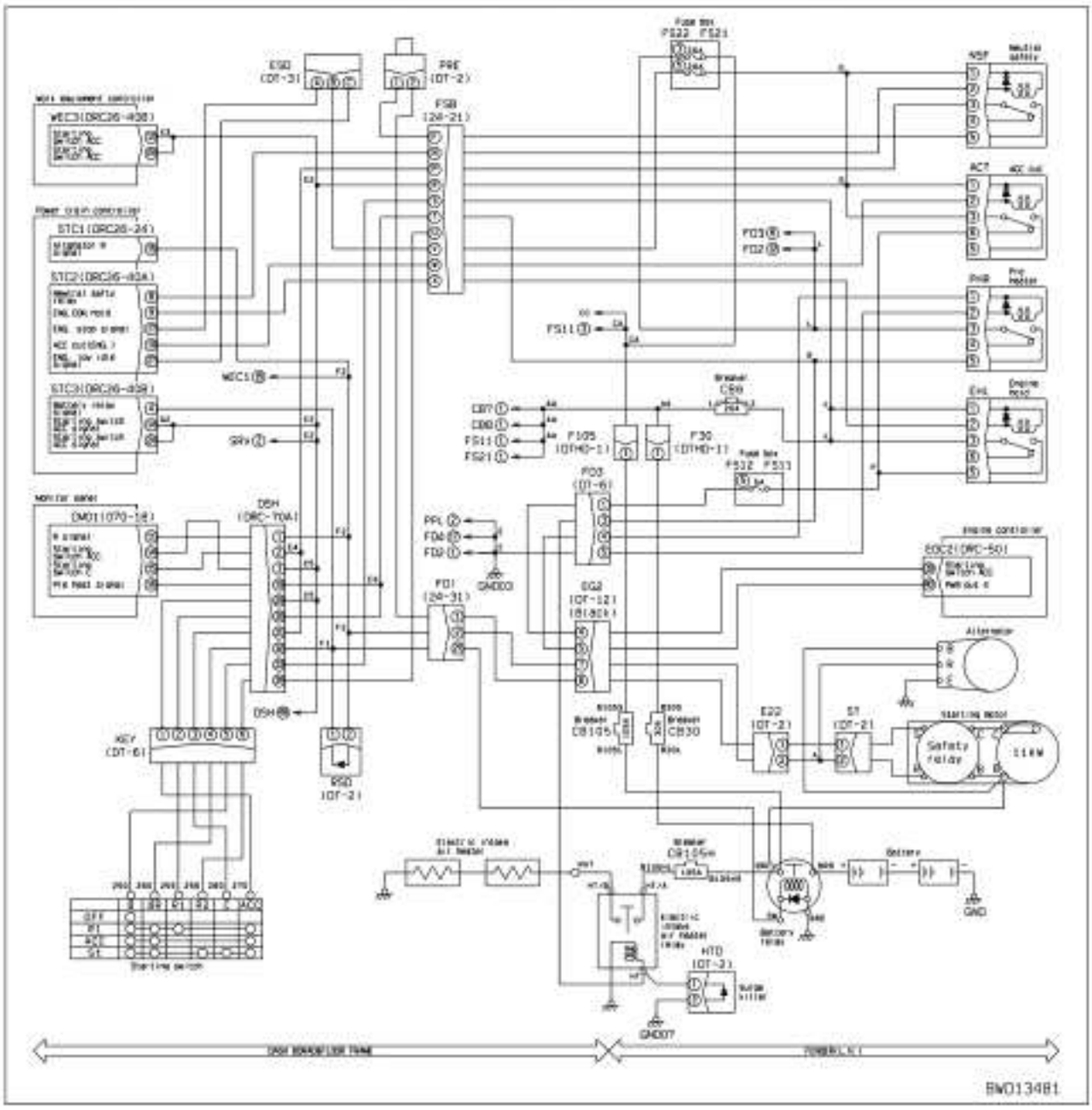
	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective R clutch ECMV solenoid (Internal short circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			SRT (male)	Resistance	
			Between (1) – (2)	3.5 – 12.5 Ω	
			Between (1) – chassis ground	Min. 1 MΩ	
	2	Hot short (Short circuit with 24V circuit) in wiring harness	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.		
			Wiring harness between STC3 (female) (37) – SRT (female) (1) and chassis ground	Voltage	Max. 1 V
	3	Short circuit in wiring harness (with another wiring harness)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between STC3 (female) (37) – SRT (female) (1) and between STC3 (female) (13) – SRT (female) (2)	Resistance	Min. 1 MΩ
	4	Defective power train controller	If causes 1 – 3 are not detected, power train controller may be defective. (Since trouble is in system, troubleshooting cannot be carried out.)		

Circuit diagram related to transmission R clutch ECMV



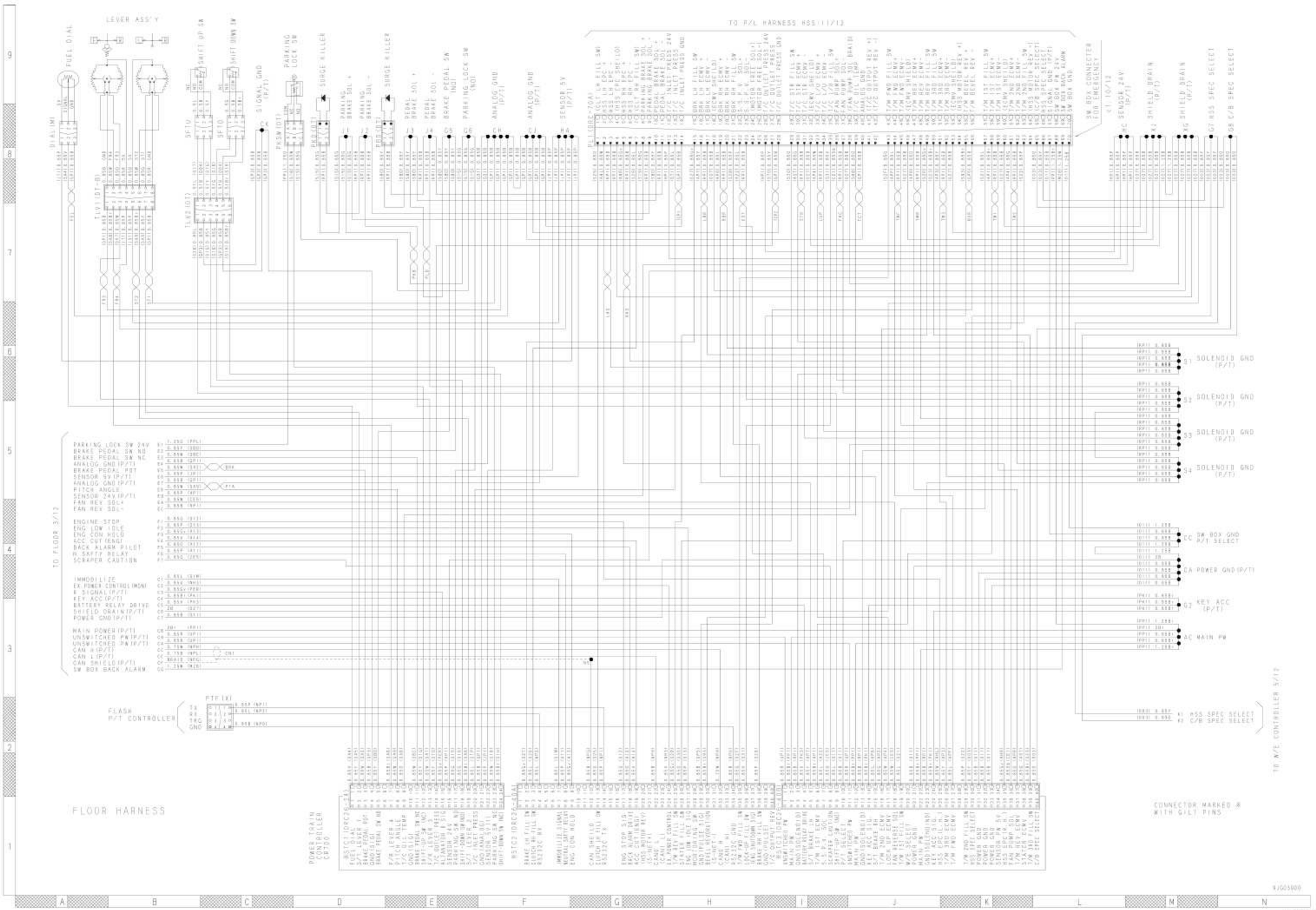
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Circuit diagram related to preheating/starting of engine and charge of battery



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Electrical circuit diagram (4/12)
D155AX-6



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