SEN04979-06

Shop Manual

WHEEL DOZER

WD600-6

SERIAL NUMBERS 55001 and up

ecot3

KOMATSU®

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Table of contents

00 Index and foreword
100 Index SEN04981-06
Composition of shop manual ... 2
Table of contents ... 4
200 Foreword and general information SEN04982-01
Safety notice ... 2
How to read the shop manual ... 7
Explanation of terms for maintenance standard ... 9
Handling of electric equipment and hydraulic component ... 11
Handling of connectors newly used for engines ... 20
How to read electric wire code ... 23
Precautions when carrying out operation ... 26
Method of disassembling and connecting push-pull type coupler ... 29
Standard tightening torque table ... 32
Conversion table ... 36

01 Specification
100 Specification and technical data SEN04984-01
Specification dimension drawing ... 2
Specifications ... 3
Weight table ... 6
Table of fuel, coolant and lubricants ... 8

10 Structure, function and maintenance standard
100 Engine and cooling system SEN04986-00
Engine mount and transmission mount ... 2
Damper ... 4
Cooling system ... 6
Cooling fan pump ... 10
Cooling fan motor ... 18
201 Power train, Part 1 SEN04987-00
Power train ... 2
Power train system diagram ... 3
Torque converter and transmission piping diagram ... 4
Torque converter ... 6
Modulation clutch ... 15
Torque converter regulator valve ... 16
Transmission ... 18
Transfer ... 38
Transmission control valve ... 40
ECMV ... 42
Main relief valve and torque converter relief valve ... 49
Lubrication relief valve ... 51
202 Power train, Part 2 SEN04988-00
Torque converter oil cooler ... 2
Torque converter oil filter ... 3
Drive shaft ... 5
Center support ... 8
Axle ... 10
Differential ... 14
Limited slip differential ... 23
Final drive ... 28
300 Steering system SEN04989-00
Steering piping diagram ... 2
Steering column ... 4

MidWestTech | Komatsu WD600-6 Wheel Loader Service Manual | Publication SEN04...
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Joystick steering lever linkage 5
Joystick EPC valve 6
Lock valve 7
Steering valve 8
Rotary valve 11
Steering control valve 14
Two-way restrictor valve 30
Stop valve 31
Steering pump 32
Steering cylinder 46
Emergency steering piping diagram 47
Diverter valve 48
Emergency steering pump 56
400 Brake system SEN04990-00
Brake piping diagram 2
Brake 4
Brake valve 8
Accumulator charge valve 16
EPC relief valve 22
Accumulator (for brake) 24
Slack adjuster 26
Parking brake 30
Parking brake solenoid valve 32
Emergency parking brake release valve 34
Brake cooling pump 35
500 Undercarriage and frame SEN04991-00
Axle mount 2
Center hinge pin 7
601 Hydraulic system, Part 1 SEN04992-00
Hydraulic piping diagram 2
Work equipment control lever linkage 4
Hydraulic tank 6
Work equipment pump 8
602 Hydraulic system, Part 2 SEN04993-00
Control valve 2
CLSS 16
Functions and operation by valve 20
Accumulator (for PPC circuit) 30
Triple pump 31
700 Work equipment SEN04994-00
Work equipment linkage 2
Cutting edge and end bit 5
Work equipment lubrication 7
Hydraulic cylinder 10
800 Cab and its attachments SEN04995-00
ROPS cab 2
Air conditioner 4
901 Electrical system, Part 1 SEN04996-01
Machine monitor system 2
Machine monitor 8
902 Electrical system, Part 2 SEN04997-00
Work equipment control system 2
Transmission controller system 28
903 Electrical system, Part 3 SEN04998-01
Electric transmission control 2
Engine starting/stopping circuit 4
Parking brake circuit 7

MidWestTech | Komatsu WD600-6 Wheel Loader Service Manual | Publication SEN04...
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Sensor 11
VHMS controller related 31
Electric lever (Work equipment) 37

20 Standard value table
100 Standard service value table SEN05044-00
Standard service value table for engine 2
Standard service value table for chassis 3

30 Testing and adjusting
101 Testing and adjusting, Part 1 SEN05045-01
Tools for testing, adjusting, and troubleshooting 3
Sketches of special tools 8
Measuring engine speed 9
Measuring exhaust gas color 11
Measuring exhaust temperature 12
Adjusting valve clearance 14
Testing compression pressures 16
Measuring blow-by pressure 19
Measuring engine oil pressure 20
Testing EGR valve and bypass valve drive oil pressure 21
Measuring intake air (boost) pressure 23
Handling fuel system equipment 24
Releasing residual pressure in fuel system 24
Testing fuel pressures 25
Testing return rate and leakage 26
Bleeding air from fuel circuit 29
Testing leakage in fuel system 31
Handling reduced cylinder mode operation 32
Handling no-injection cranking operation 32
Handling controller voltage circuit 33
Replacing and adjusting alternator and air conditioner compressor belt tension 34
Adjusting modulation clutch speed sensor and speed sensor 35
Measuring directional lever and gear shift lever (Steering wheel specification) 37
Testing and adjusting power train oil pressure 38
Flushing procedure for torque converter and transmission hydraulic circuit 52
Method of moving machine when transmission valve is broken 54
Moving method of machine disabled by short-to-power failure in work equipment potentiometer 56
Adjusting steering stop valve 58
102 Testing and adjusting, Part 2 SEN05046-00
Measuring operating effort of AJSS lever (AJSS specification) 3
Testing and adjusting AJSS lever angle sensor and frame angle sensor (AJSS specification) 4
Testing and adjusting steering stopper bolt (AJSS specification) 6
Testing and adjusting steering wheel (Steering wheel specification) 8
Testing steering oil pressure 10
Bleeding air from steering cylinder circuit 14
Testing hydraulic drive fan 15
Bleeding air from hydraulic drive fan circuit 18
Measuring brake pedal 20
Measuring brake performance 21
Testing and adjusting accumulator charge pressure 22
Testing wheel brake oil pressure 24
Measuring wear of wheel brake disc 26
Bleeding air from wheel brake circuit 27
Releasing residual pressure in brake accumulator circuit 28
Testing parking brake performance 29
Measuring parking brake oil pressure 30

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Failure code [CA1626] (Bypass valve solenoid current high error)

Action code	Failure code	Trouble	Bypass valve solenoid current high error (Engine controller system)
E03	CA1626		
Contents of trouble	• High current was detected in drive circuit of bypass valve solenoid.		
Action of controller	• Limits output and continues operation. • Close EGR and bypass valves. • Turns the centralized warning lamp and alarm buzzer ON.		
Problem that appears on machine	• Engine output lowers.		
Related information	• Method of reproducing failure code: Turn starting switch ON.		

	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective bypass valve solenoid (Internal defect)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			BP (male)	Resistance	
			Between (1) and (2)	10 – 21 Ω	
	2	Disconnection in wiring harness (Disconnection in wiring or defective contact in connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between ENG (female) (31) – BP (female) (1)	Resistance	Max. 1 Ω
			Wiring harness between ENG (female) (11) – BP (female) (2)	Resistance	Max. 1 Ω
	3	Ground fault in wiring harness (Short circuit with GND circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between ENG (female) (31) – BP (female) (1) and chassis ground	Resistance	Min. 1 MΩ
			Wiring harness between ENG (female) (11) – BP (female) (2) and chassis ground	Resistance	Min. 1 MΩ
	4	Hot short in wiring harness (Contact with 24 V circuit)	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.		
			Wiring harness between ENG (female) (31) – BP (female) (1) and chassis ground	Voltage	Max. 1 V
			Wiring harness between ENG (female) (11) – BP (female) (2) and chassis ground	Voltage	Max. 1 V
	5	Defective engine controller	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			ENG (female)	Resistance	
			Between (31) and (11)	10 – 21 Ω	

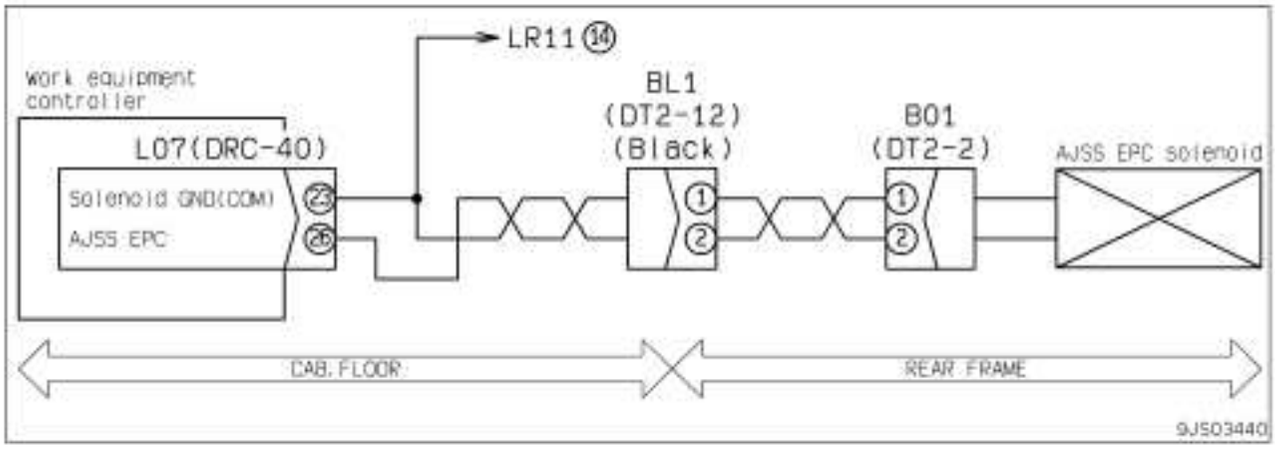
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Failure code [DXF0KB] (AJSS EPC solenoid: Short circuit)

Action code	Failure code	Trouble	AJSS EPC solenoid: Short circuit (Work equipment controller system)
E01	DXF0KB		
Contents of trouble	• Since the AJSS EPC solenoid system was shorted with the chassis ground, abnormal current flowed when the AJSS EPC solenoid output was ON.		
Action of controller	• Stops outputting the signal to the AJSS EPC solenoid. • Even if cause of failure disappears, system does not reset itself until starting switch is turned OFF.		
Problem that appears on machine	• Steering according to AJSS operation becomes less effective. • The wiring harness or controller may be burnt out.		
Related information	• The output state (current) to the AJSS EPC solenoid can be checked with the monitoring function (Code: 40908 AJSS EPC DIR). • Method of reproducing failure code: Start engine • This error is not displayed on a steering wheel specification machine. If it is displayed, select "NO ADD" AJSS option in option setting.		

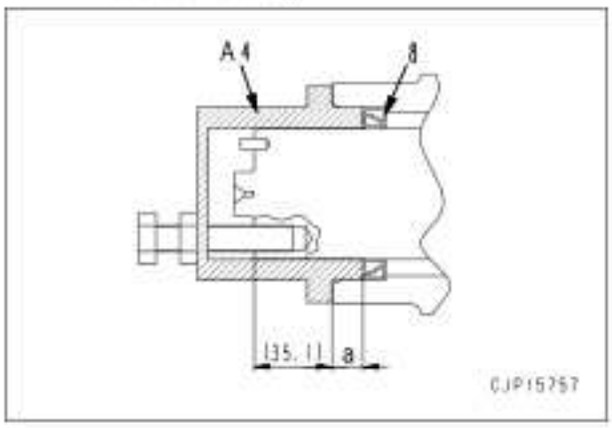
	Cause		Standard value in normal state/Remarks on troubleshooting			
Possible causes and standard value in normal state	1	Defective AJSS EPC solenoid (Internal short circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			B01 (male)	Resistance		
			Between (1) and (2)	5 – 15 Ω		
			Between (1), (2) and chassis ground	Min. 1 MΩ		
	2	Grounding fault in wiring harness (Contact with ground circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			Wiring harness between L07 (female) (26) – B01 (female) (1) and chassis ground	Resistance	Min. 1 MΩ	
	3	Defective work equipment controller	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			L07 (female)	Resistance		
			Between (23) and (26)	5 – 15 Ω		
			Between (23), (26) and chassis ground	Min. 1 MΩ		

Circuit diagram related to AJSS EPC solenoid

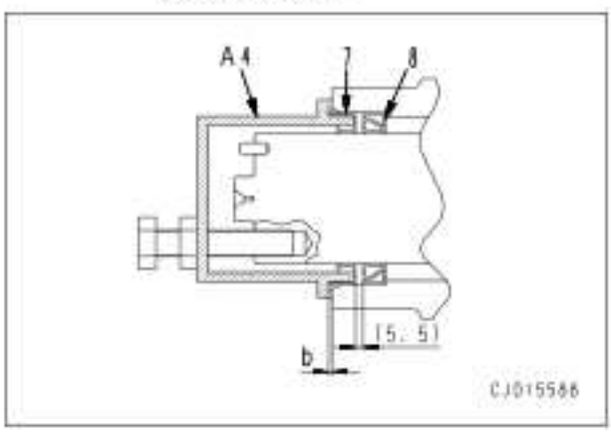


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2) Using tool **A4**, press fit oil seal (8) to the front case in such that dimension (a) in the figure is met.
★ Oil seal press fitting dimension (a): 18.5 mm (when measured from the front cover end face)



3) Using tool **A4** (for dust seal), press fit dust seal (7) to the front case in such that dimension (b) in the figure is met.
★ Dust seal press fitting dimension (b): 2 mm (Projection out of the front cover end face)



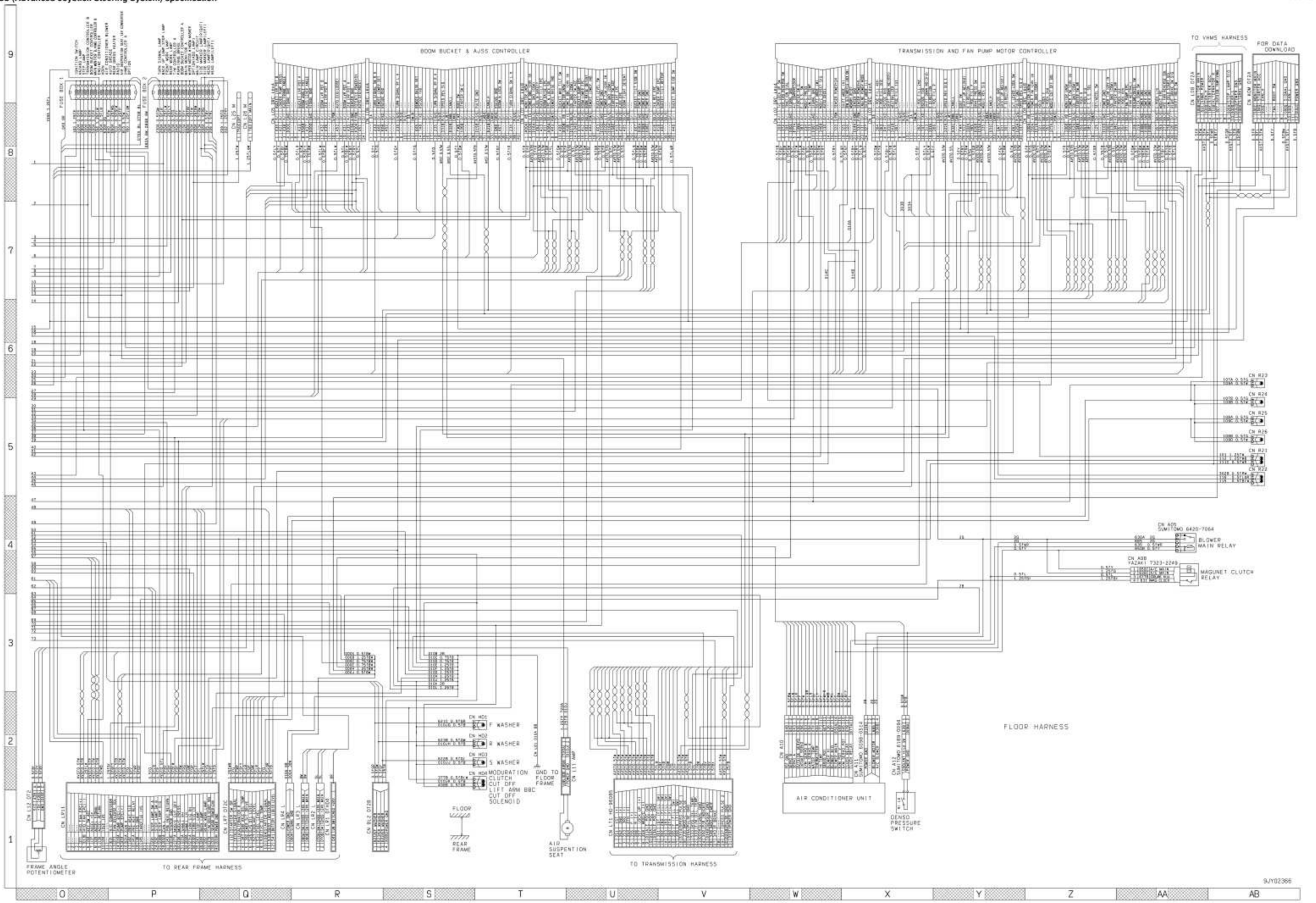
- Carry out the succeeding installation in the reverse order of removal.

[*1]
Pulley and damper mounting bolt:
1st time: 53.9 – 93.1 Nm {5.5 – 9.5 kgm}
2nd time: 225.4 – 264.6 Nm {23 – 27 kgm}
3rd time: 617.4 – 656.6 Nm {63 – 67 kgm}

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Electrical circuit diagram (2/10)

AJSS (Advanced Joystick Steering System) specification



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