SEN05654-00

Shop Manual

WHEEL LOADER

WA900-3E0

SERIAL NUMBERS 60079 and up

KOMATSU®

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Weight table

Unit: kg

Machine model	WA900-3E0
Serial number	60079 and up
Engine (dry weight)	3,690
Radiator (dry weight)	880
Torque converter (dry weight)	590
Transmission (dry weight)	2,300
Damper	178
Upper drive shaft	58
Center drive shaft	184
Front drive shaft	171
Rear drive shaft	184
Center support	165
Front axle	8,190
Rear axle	7,700
Front differential (excluding parking brake)	1,226
Rear differential	1,256
Planetary carrier assembly (per assembly)	238
Wheel hub (per hub)	600
Axle pivot (rear)	286
Wheel (per wheel)	874
Tire (per tire)	2,720
Steering control valve	66
Steering cylinder (per cylinder)	206
Hydraulic tank (dry weight)	824
Work equipment pump	150
Parking brake assembly	185
Torque converter charging pump and PPC pump	49
Switching pump	157
Steering pump	145
Fender and guard assembly	1,393
PPC valve	4
Work equipment control valve (per valve)	95
Hydraulic oil cooler	400
ADD cooler (TC & HYD)(dry weight)	206
Front brake cooler (dry weight)	45
Rear brake cooler (dry weight)	45
Front brake cooling pump	3
Rear brake cooling pump	3
Fan motor for ADD cooler	5

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Troubleshooting by failure code
Failure code [D1EMKA] (Disconnection of parking brake interlock relay)

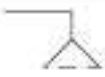
Action level	Failure code	Failure	Open circuit in parking brake interlock relay
E03	**D1EMKA**		
Detail of failure	• Controller detects open circuit while driving parking brake interlock relay.		
Action of controller	• Stops driving solenoid and buzzer until its power supply is turned off.		
Problem on machine	• Ladder does not move when switch is operated. • Parking brake can be released (parking brake interlock does not function) even if ladder is not stored in position.		
Related information	• Ladder can be moved to storage and boarding positions by using emergency release valve. • Output signal to parking brake interlock relay can be checked with monitoring function. Code: 40990 "D-OUT-0" (ON: 1, OFF: 0) • Even when parking brake interlock relay has open circuit, ladder RAISE and LOWER operations are possible if this failure code disappears and interlock relay is not activated. (When ladder is stored in position with starting switch at OFF position, controller does not drive interlock relay even if parking brake releasing operation is performed.) • If interlock relay is activated when parking brake emergency release connector in fuse box is disconnected (emergency release state), this failure code appears.		

No.	Cause	Procedure, measuring location, criteria and remarks		
1	Open circuit in wiring harness (wire breakage or defective contact of connector)	1. Turn starting switch to OFF position. 2. Disconnect PC0 and PL12.		
		Resistance	Between PC0 (female) (9) and PL12 (female) (1)	Max. 1 Ω
			Between PC0 (female) (40) and PLCU (female) (2)	Max. 1 Ω
2	Defective parking brake interlock relay	1. Turn starting switch to OFF position. 2. Disconnect PL12.		
		Resistance	Between PL12 (male) (1) and (2)	200 to 400 Ω
			Between ground and each of PL12 (male) (1) and (2)	Min. 1 MΩ
3	Defective power ladder controller	If no failure is found by check on causes 1 and 2, power ladder controller may be defective. (Since this is an internal defect, troubleshooting cannot be performed.)		

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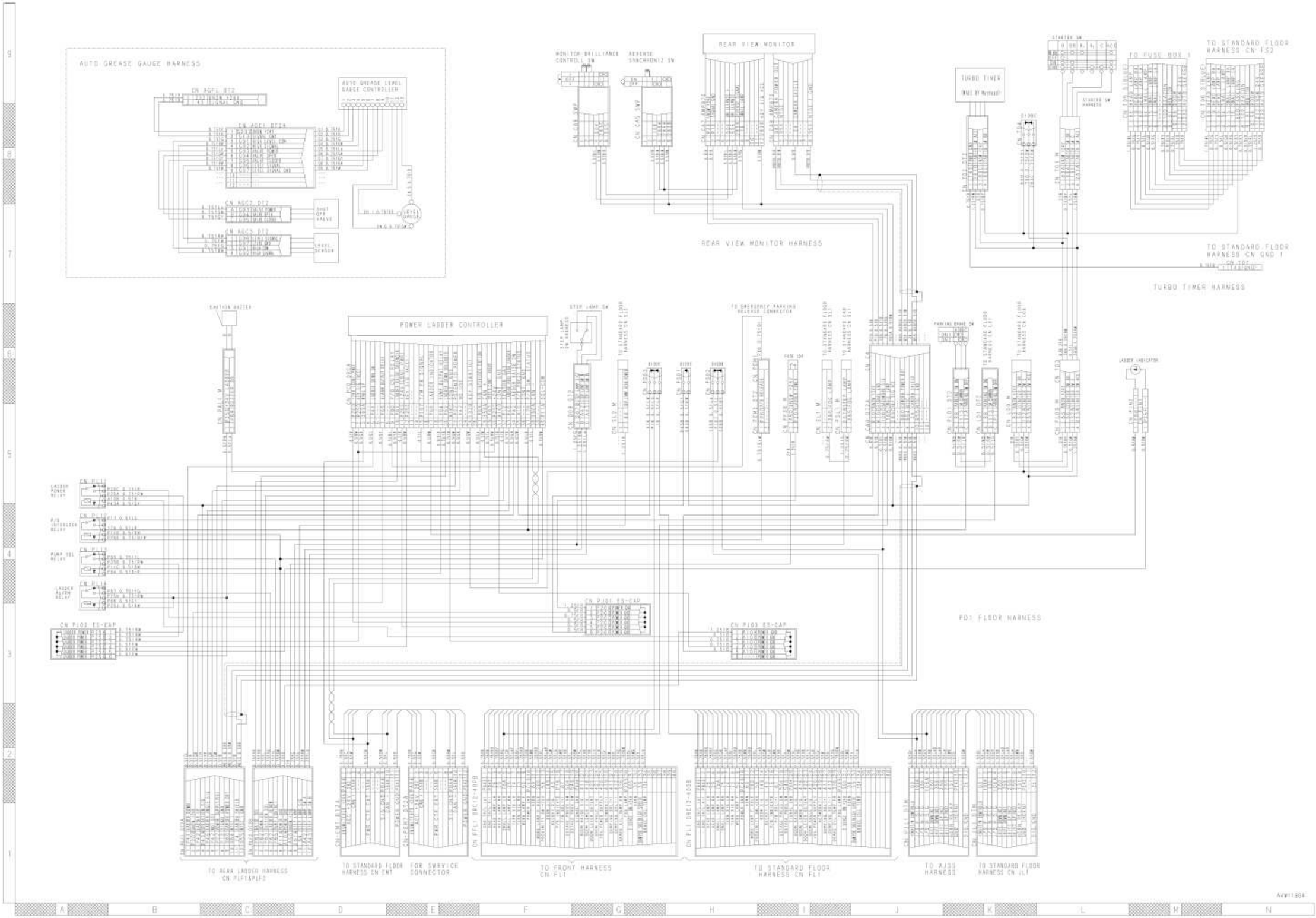
Hydraulic circuit diagram
Symbols used in hydraulic circuit diagram

(Rev. 2010/03)

Symbols	Substances
	Main piping line
	Pilot or drain line
	Flexible pipe (hose etc.)
	Lines intersecting without joining
	Lines joining (junction with black dot)
	Direction of flow
	Throttle in passage
	Variable
	Electricity
	Spring
	Take-off port
	Take-off port and pressure gauge
	Check valve
	Suction (with strainer)
	Tank and return pipe

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Electrical circuit diagram (1/2)
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