SHOP MANUAL

KOMATSU®

avance LOADER

WA700-3

Machine model	Serial number
WA700-3	**50001 and up**
WA700-3D	**50001 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.

- WA700-3, WA700-3D mount the SAA6D170E-2 or SAA6D170E-3 engine.
  For details of the engine, see the 6D170-2 or 170-3 Series Engine Shop Manual.

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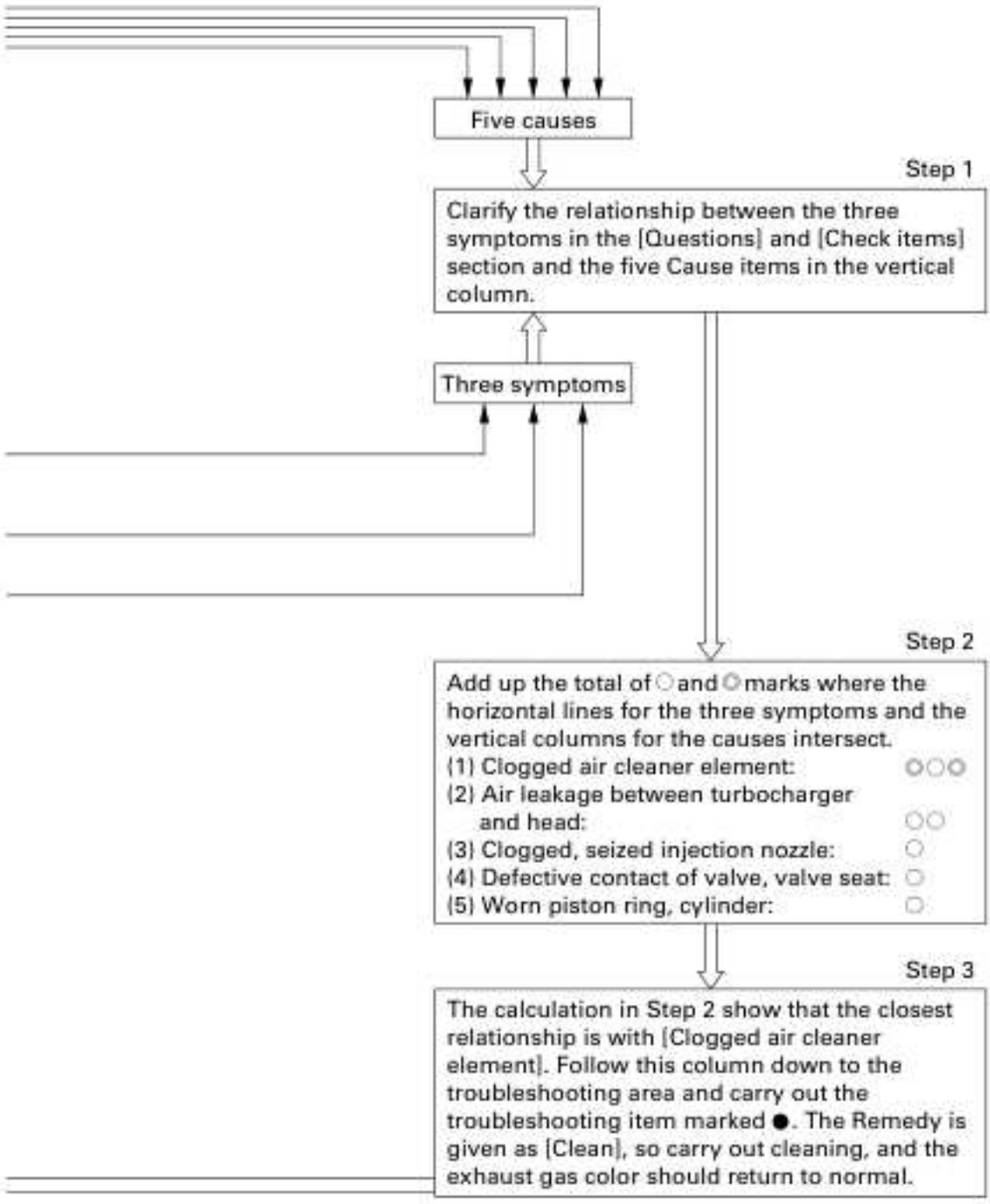
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System	Name of component	Connector No.	Inspection method	Judgement table	Measurement condition
Maintenance monitor	Radiator water level sensor	G03 (male)	Measure resistance	If the condition is as shown in the table below, it is normal. Water level normal: Between (1) – (2): Max. 1 Ω Water level low: Between (1) – (2): Min. 1 MΩ	1) Turn starting switch OFF. 2) Disconnect connectors. 3) Connect T-adapter.
	Engine oil pressure switch	ER1 (★)	Measure resistance	If the condition is as shown in the table below, it is normal. Engine oil pressure: Min. 0.07 MPa {0.7 kg/cm²} (Engine running): Between (2) – (7): Min. 1 MΩ Engine oil pressure: Max. 0.03 MPa {0.3 kg/cm²} (Engine stopped): Between (2) – (7): Max. 1 Ω	1) Turn starting switch OFF. 2) Disconnect terminal. 3) Engine running
		POW (★★)	Measure voltage	If the condition is as shown in the table below, it is normal. Min. 0.05 MPa {0.5 kg/cm²}: Between sensor POW (A) – chassis: 20 – 30 V Max. 0.05 MPa {0.5 kg/cm²}: Between sensor POW (A) – chassis: Max. 1 V	1) Turn starting switch OFF. 2) Insert T-adapter. 3) Start engine
	Brake accumulator low pressure switch	C03 C04	Measure resistance	If the condition is as shown in the table below, it is normal. Accumulator pressure: Min. 5.39 ± 0.49MPa {55 ± 5 kg/cm²}: Between (1) – (2): Max. 1 Ω Depress brake and lower accumulator pressure to below 4.41 ± 0.49 MPa {45 ± 5 kg/cm²}: Between (1) – (2): Min. 1 MΩ	1) Turn starting switch OFF. 2) Disconnect connectors. 3) Connect T-adapter.
	Charge (Alternator)	L18	Measure voltage	If the condition is as shown in the table below, it is normal. Engine running (above half throttle): Between (12) – (3): 28 ± 2 V Starting switch ON: Between (12) – (3): Max. 1 V ※ If the battery is old, or after starting in cold areas, the voltage may not rise for some time.	1) Turn starting switch OFF. 2) Insert T-adapter. 3) Start engine.
	Engine oil level sensor	ER1 (male)	Measure resistance	If the condition is as shown in the table below, it is normal. Engine oil level normal: Between (3) – chassis: Max. 1 Ω Engine oil level abnormal: Between (3) – chassis: Min. 1 MΩ	1) Turn starting switch OFF. 2) Disconnect terminal.

(★) Serial No.: 50001 – 51000
(★★) Serial No.: 51001 and up

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EA-7 Error code [118] (Abnormality [high level] in fuel pump pressure sensor system)

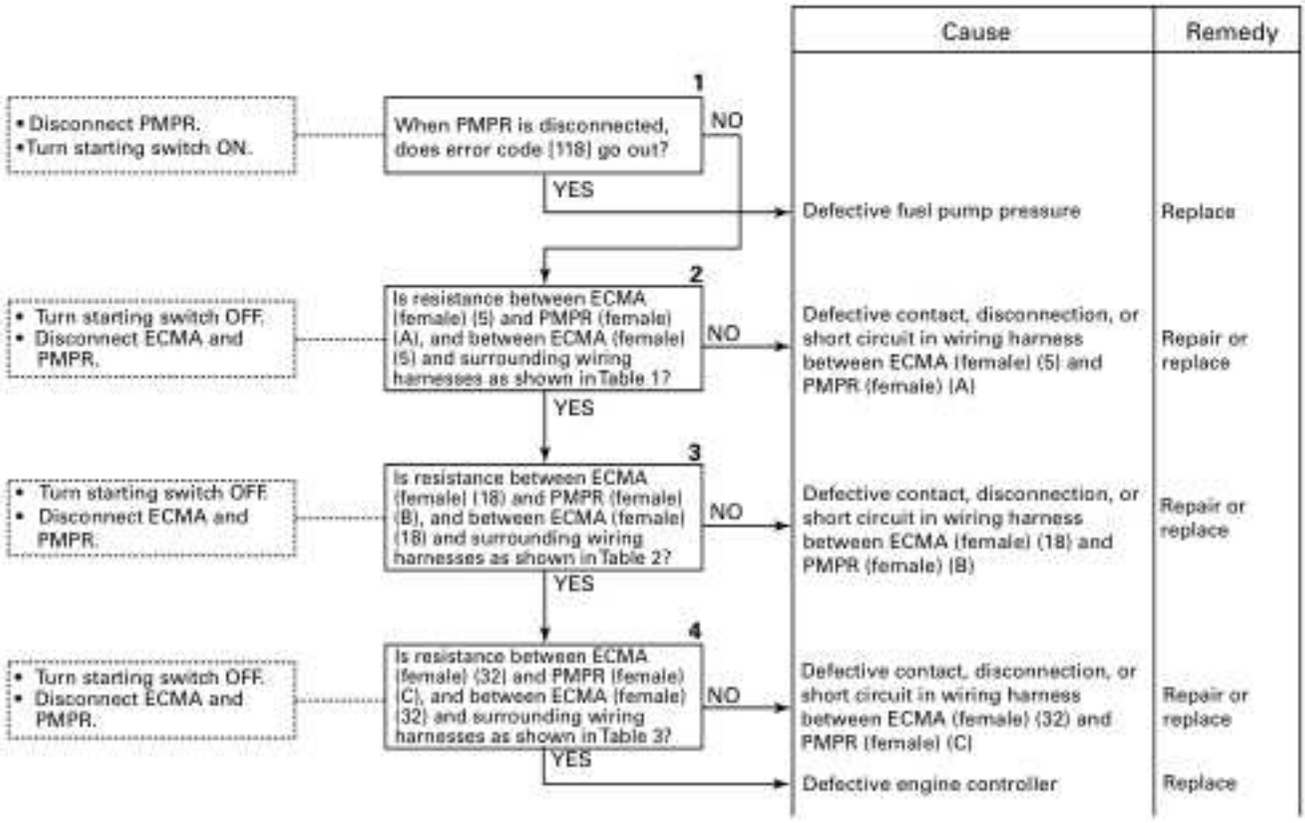


Table 1

ECMA (female), PMPR (female)	Resistance value
Between ECMA (5) and PMPR (A)	Max. 10 Ω
Between ECMA (5) and surrounding wiring harnesses	Min. 1 MΩ

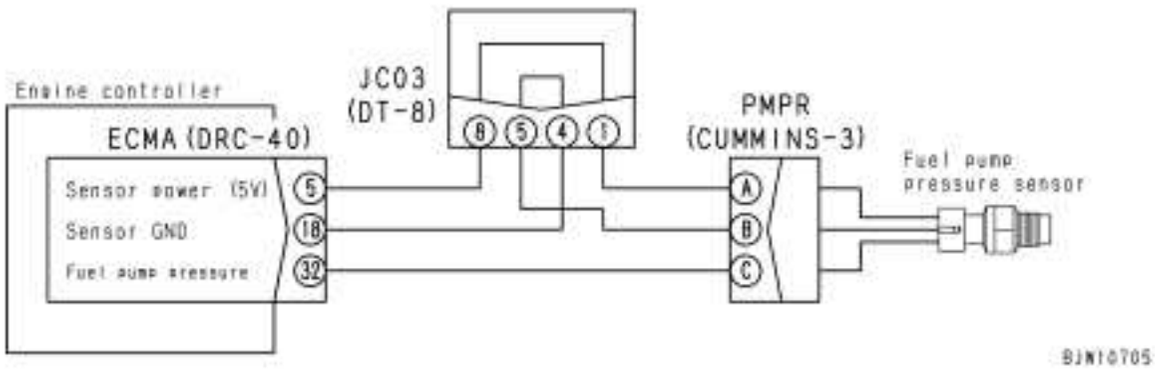
Table 2

ECMA (female), PMPR (female)	Resistance value
Between ECMA (18) and PMPR (B)	Max. 10 Ω
Between ECMA (18) and surrounding wiring harnesses	Min. 1 MΩ

Table 3

ECMA (female), PMPR (female)	Resistance value
Between ECMA (32) and PMPR (C)	Max. 10 Ω
Between ECMA (32) and surrounding wiring harnesses	Min. 1 MΩ

EA-7 Related electrical circuit diagram

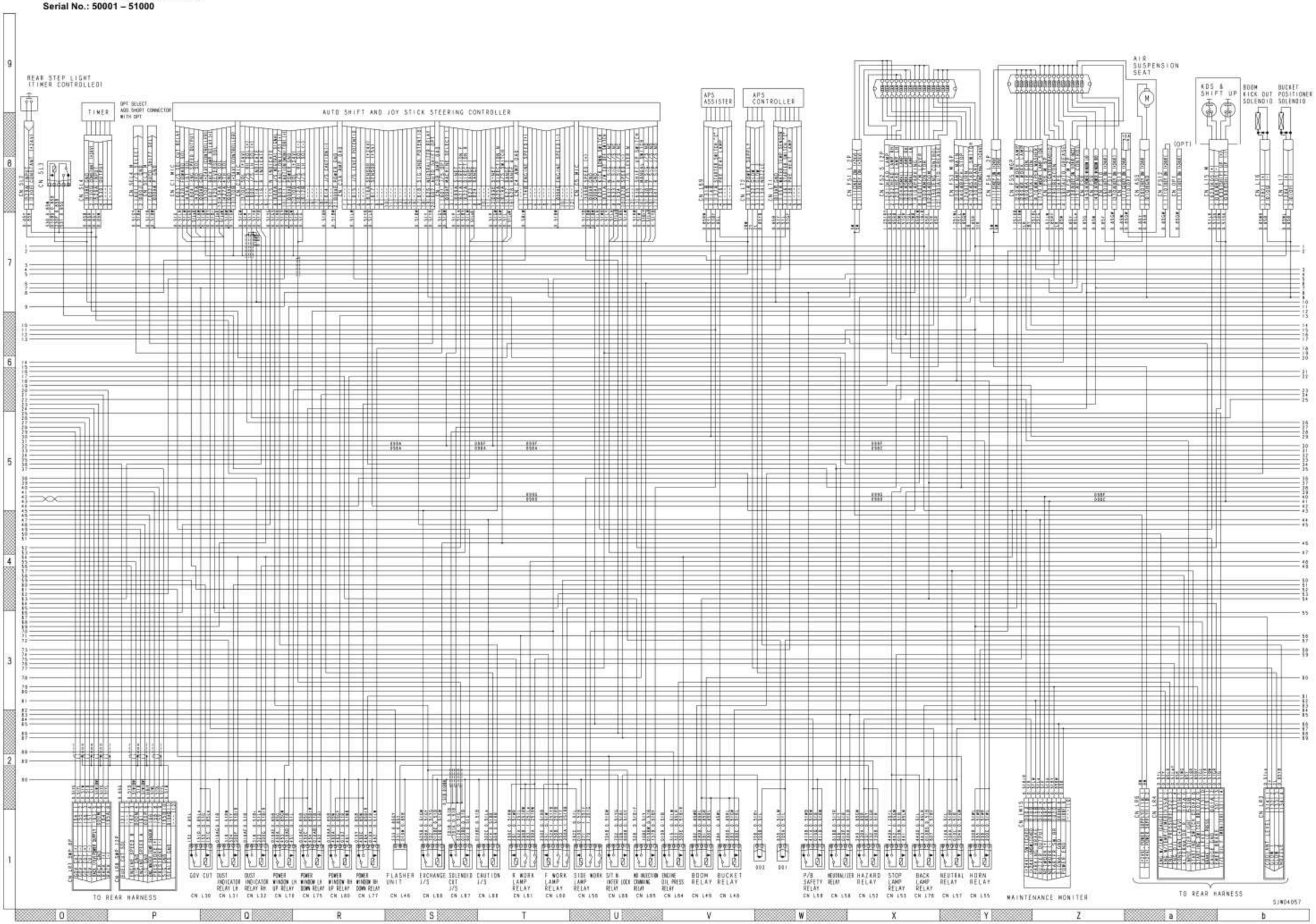


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Electric circuit diagram (2/3)

with auto shift and joystick steering

Serial No.: 50001 – 51000



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