SEBM006506

Shop Manual

KOMATSU®

SD Super Dozer

D575A-2

Super Dozer

SERIAL NUMBERS **D575A-2 - 10012** and up

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January 1997

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Machine model				D575A-2	
Serial Number				10012, 10013, 10015 and up	10014
Blade specifications				For rock	For soil
Undercarriage	Suspension			Soft, equalizing type	
	Carrier roller			2 each side	
	Track roller			8 each side	
	Track shoe			Assembly type, single grouser, 49 each side Pitch: 317.5 mm	
	Track shoe width		mm	860	910
Work equipment hydraulic system	Max. pressure		MPa (kg/cm²)	20.6 (210)	
	Hydraulic pump			Gear type: SAL(4) – 200 + 200 Max. delivery: 1,258 ℓ/1,800 rpm	
	Pitch assist + pilot pump			Gear type: SAR(4) – 125 + 125 + (1) – 32	
	Hydraulic tank			Box shape, sealed type (with intake, exhaust valve)	
	Control valve	Type Control method		2-spool type Hydraulic assist	
	Hydraulic cylinder	Type		Reciprocal, piston type	
		Dimensions of blade tilt cylinder: Cylinder bore	mm	225	
		Dimensions of blade tilt cylinder: Piston rod outer diameter	mm	120	
		Dimensions of blade tilt cylinder: Max. piston stroke	mm	1,458	1,465
		Dimensions of blade tilt cylinder: Max. distance between pins	mm	2,775	
		Dimensions of blade tilt cylinder: Min. distance between pins	mm	1,310	
		Dimensions of blade pitch cylinder: Cylinder bore	mm	300	
		Dimensions of blade pitch cylinder: Piston rod outer diameter	mm	180	
		Dimensions of blade pitch cylinder: Max. piston stroke	mm	906	
		Dimensions of blade pitch cylinder: Max. distance between pins	mm	2,872	
		Dimensions of blade pitch cylinder: Min. distance between pins	mm	1,966	
Work equipment	Dozer equipment	Type Blade support method		Hydraulic super dozer Center link type	
	Dimensions	Blade width	mm	7,400	7,700
		Blade height	mm	3,246	
	Performance	Blade capacity	m³	60.4	62.3
		Blade cutting angle	deg	55	
		Blade lifting height (from ground)	mm	1,740	
		Blade lowering depth (from ground)	mm	800	
		Blade tilt	mm	1,000	1,040

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WEIGHT TABLE

⚠ This weight table is a guide for use when transporting or handling components.

Unit: kg

Machine model	D575A-2	
Serial Number	10012,10013,10015 and up	10014
Blade specifications	For rock	For soil
Engine, damper assembly	6,865	6,865
• Engine assembly	6,650	6,650
• Damper assembly	215	215
Radiator assembly	887	887
Hydraulic cooler	200	200
Fuel tank assembly (when full)	821 (2,570)	821 (2570)
Power train unit	7,400	7,400
• Torque converter, PTO assembly	1,100	1,100
• Transmission assembly	2,100	2,100
• Transmission valve assembly	100	100
• Steering clutch, brake assembly	3,380	3,380
• Steering valve assembly	79	79
Final drive assembly (each side)	6,100	6,100
Main frame assembly	15,740	15,740
Track group assembly (each side)	15,600	15,600
Track frame (incl. bogie) (each side)	9,122	9,122
Recoil spring assembly (each side)	2,564	2,564
Idler assembly (each side)	1,240	1,240
Track roller assembly (single flange x1)	293	293
Track roller assembly (double flange x1)	310	310
Carrier roller assembly (each)	131	131
Track shoe assembly (860 mm width) (each side)	9,150	—
Track shoe assembly (910 mm width) (each side)	—	9,435
Pivot shaft assembly (each side)	706	706
Equalizer bar	555	555
Hydraulic tank assembly	438	438

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Unit: kg

Machine model	D575A-2	
Serial Number	10012,10013,10015 and up	10014
Blade specifications	For rock	For soil
Blade lift cylinder assembly (each side)	553	553
Pitch cylinder assembly (each side)	1,220	1,220
Super dozer assembly	26,200	26,500
• Blade	17,600	17,900
• Straight frame (left)	3,568	3,568
• Straight frame (right)	3,568	3,568
• Pitch cylinder assembly	1,220 x 2	1,220 x 2
Counterweight assembly	5,800	5,800
Cylinder yoke (each side)	—	—
Cylinder stay	—	—
Radiator guard assembly	3,170	3,170
• Radiator guard	1,470	1,470
Radiator mask (incl. grill) (each side)	153	153
Engine underguard (front)	510	510
Hood	210	210
Fender (left)	1,540	1,540
Fender (right)	1,620	1,620
ROPS cab assembly	1,800	1,800
Floor frame assembly	589	589
Cab assembly	480	480
Operator's seat assembly	79	79

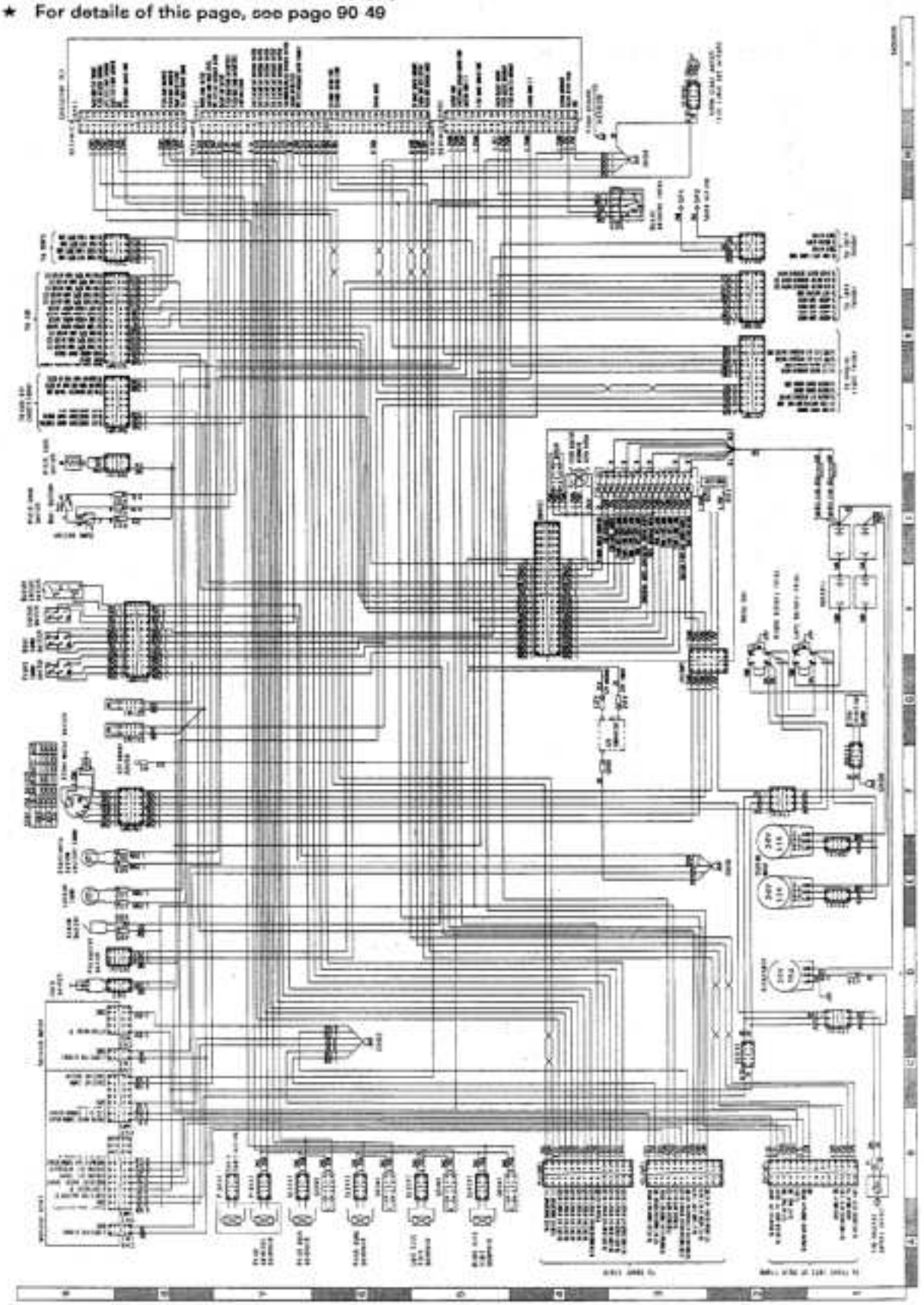
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ELECTRICAL CIRCUIT DIAGRAM

CHASSIS ELECTRICAL CIRCUIT (1/2)

★ For details of this page, see page 90-49



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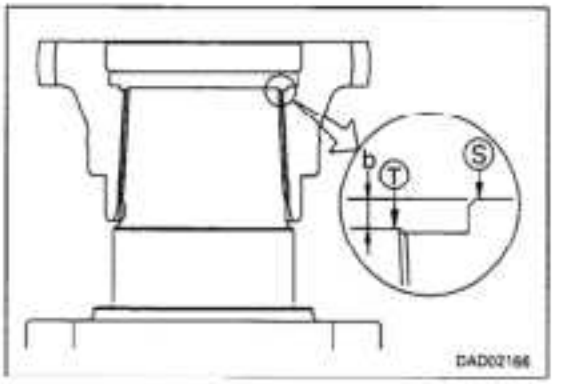
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Cause	Remedy
Defective controller	Replace
Already reset	—
Carry out troubleshooting in E-113 (R oil pressure switch)	—
Carry out troubleshooting for hydraulic, mechanical system (H mode)	—
Short circuit with chassis ground in wiring harness between SE2 (2) and TMF (1), or contact with other wiring harness	Replace wiring harness
Defective controller	Replace
Defective F oil pressure switch	Replace
Carry out troubleshooting for hydraulic, mechanical system (H mode)	—
Defective contact or disconnection in wiring harness between SE2 (9) – TMF (1), TMF (2) - GND4	Replace wiring harness
Defective F oil pressure switch	Replace

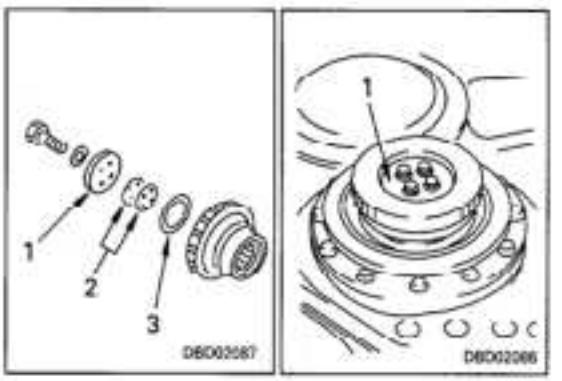
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2) Adjusting shim thickness
Using calipers, measure dimension **b** between gear end face Ⓢ and shaft end face Ⓣ.
Shim thickness = b – (0.1 – 0.2)mm
★ Types of shim : 0.1 mm, 0.2 mm, 0.5 mm
★ Standard shim thickness : 3 mm



3) Fit specified shim (2) and packing (3), then install holder (1).



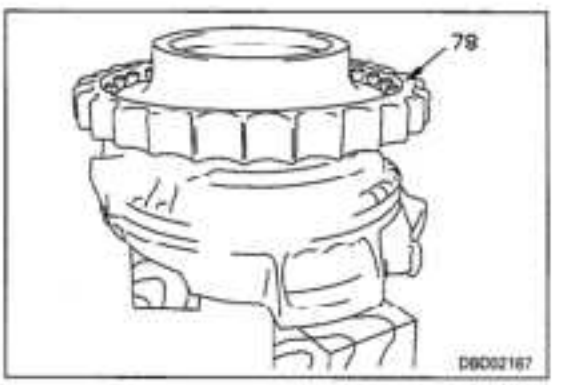
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16. Sprocket teeth
Install sprocket teeth (78).

Seat surface of nut :
Seizure prevention agent (LM-G)

Mounting bolt thread :
Thread tightener (LT-2)

Nut :
Initial torque :
Tighten to 981 ± 98 (100 ± 10 kgm)
2nd pass: Tighten a further 180 ± 5°

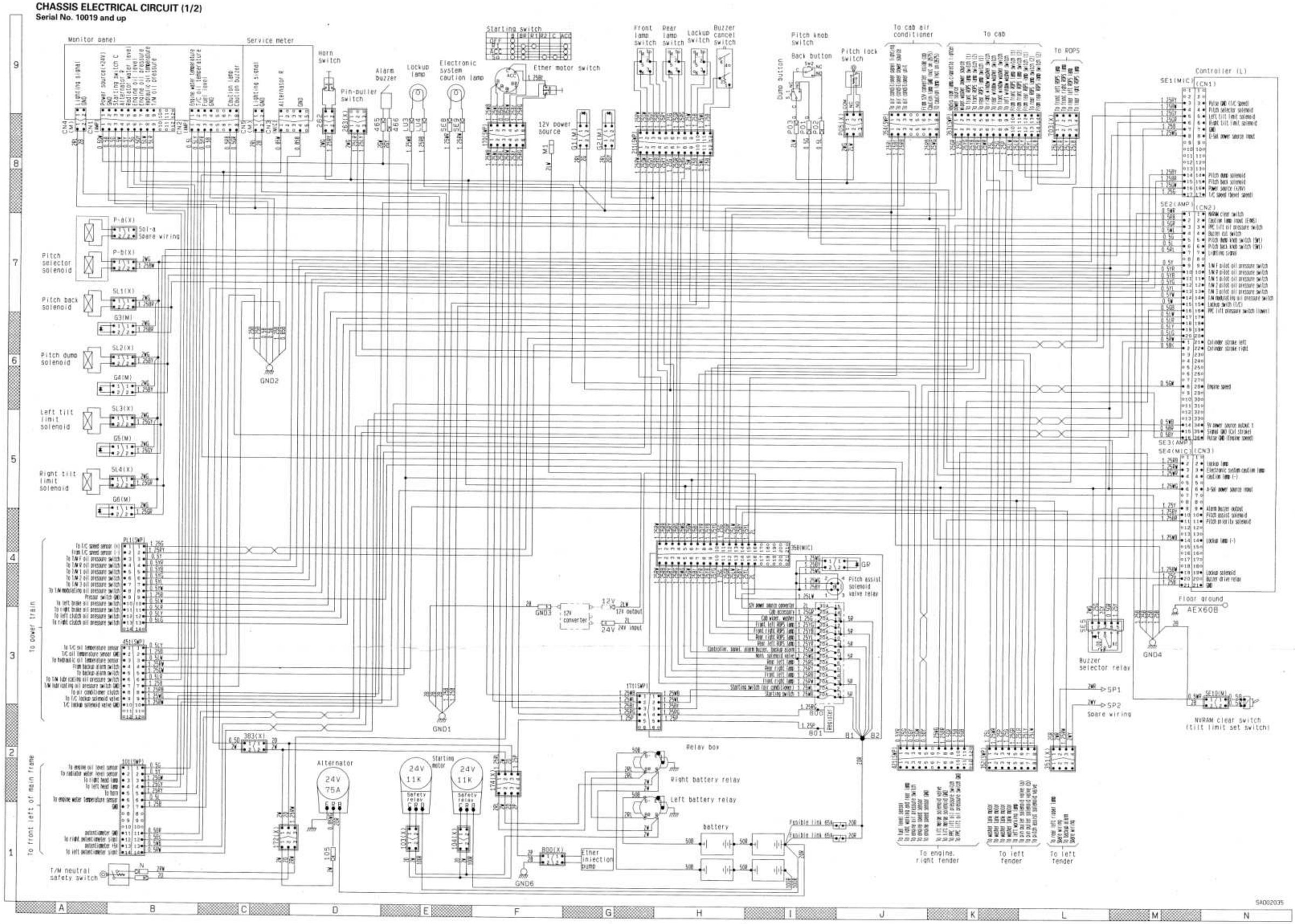


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ELECTRIAL CIRCUIT DIAGRAM

CHASSIS ELECTRICAL CIRCUIT (1/2)

Serial No. 10019 and up



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