SEBM035200

SHOP MANUAL

KOMATSU®

D375A-5

MACHINE MODEL **D375A-5**

SERIAL NUMBER **18200 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.

- D375A-5 mounts the SA6D170E-2 engine.
  For details of the engine, see the 6D170-2 Series Engine Shop Manual.

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Machine model			D375A-5		
Serial No.			18200 and up		
Work equipment	U-dozer	Performance	Max. blade lifting height (from ground level)	mm	1,660
			Max. blade lowering depth (from ground level)	mm	715
			Max. tilt	mm	1,165
			Blade cutting angle variation	deg	±5
			Blade capacity	m^3	26.3 <SAE 22.0>
		Dimensions	Blade width	mm	5,140
			Blade height	mm	2,265
			Blade cutting angle	deg	55
	Semi U-dozer + pitch	Performance	Max. tilt	mm	1,150
			Max. pitch angle	deg	5
			Max. pitch-back angle	deg	5
	U-dozer + pitch	Performance	Max. tilt	mm	1,260
			Max. pitch angle	deg	5
			Max. pitch-back angle	deg	5
	Multi-shank ripper	Performance	Max. digging depth	mm	1,075
			Max. lifting height	mm	1,050
			Ripping angle of point	deg	45 (adjustable steplessly 32.5 – 55.5)
		Dimensions	Max. width of beam	mm	2,854
			Shank positions	No. of holes	2
	Giant ripper	Performance	Max. digging depth	mm	1,435
			Max. lifting height	mm	1,060
			Ripping angle of point	deg	45 (adjustable steplessly 32.5 – 55.5)
		Dimensions	Max. width of beam	mm	1,367
			Shank positions	No. of holes	3

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S-2 Engine does not start

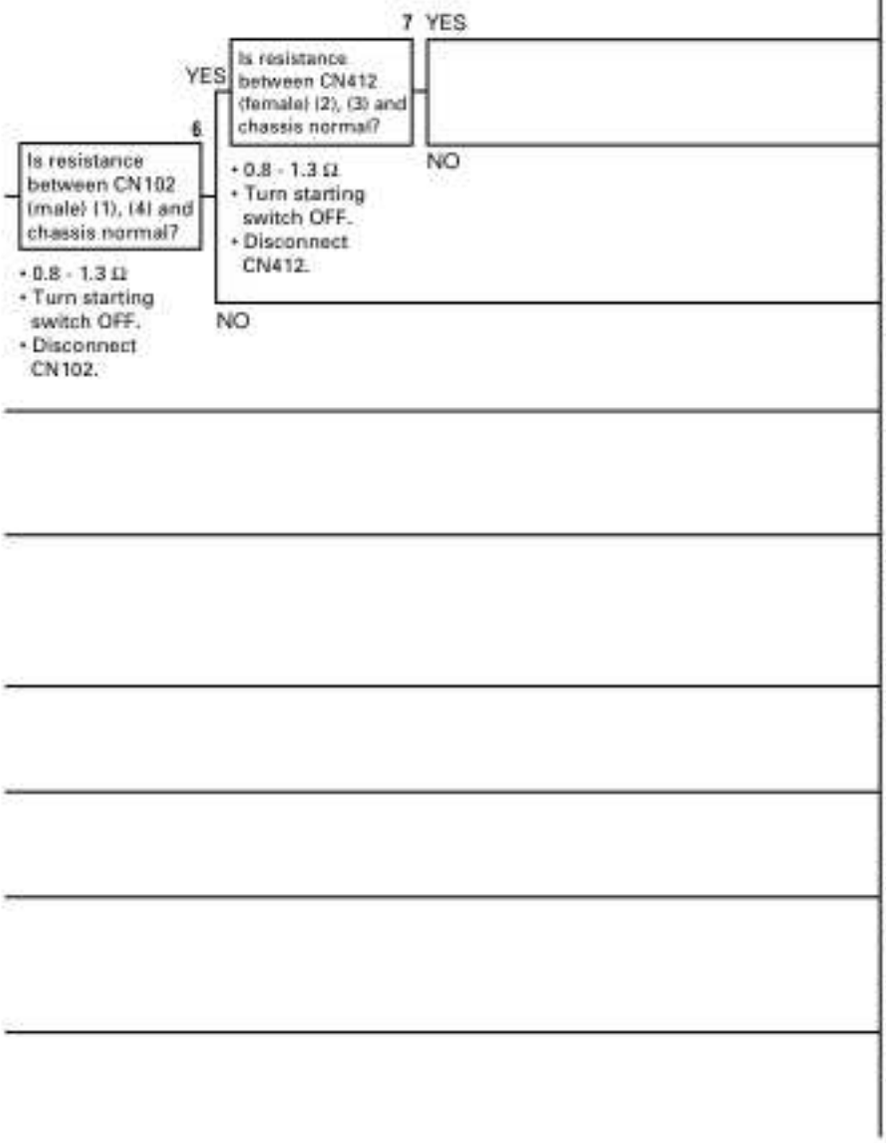
1) Engine does not turn

General causes why engine does not turn
- Internal parts of engine seized
  - ★ If internal parts of the engine are seized, carry out troubleshooting for "Engine stops during operations".
- Failure in power train
- Defective electrical system

Legend
○: Possible causes (judging from Questions and check items)
◎: Most probable causes (judging from Questions and Check items)
△: Possible causes due to length of use (used for a long period)
●: Items to confirm the cause.

			Causes: Defective wiring of starting circuit	Defective or deteriorated battery	Defective starting motor	Broken ring gear	Defective safety relay	Defective battery relay	Defective battery terminal connection	Defective starting switch
Questions	Confirm recent repair history									
	Degree of use of machine	Operated for long period		△		△				
	Condition of horn when starting switch is turned ON	Horn sounds	◎						○	○
		Horn does not sound or volume is low		○						
	When starting switch is turned to START, pinion moves out, but	Makes grating noise			◎	◎				
		Soon disengages again			○		○			
		Makes rattling noise and does not turn	◎	○	○		○			○
Check items	When starting switch is turned to START, pinion does not move out			○	◎		◎			
	When starting switch is turned to ON, there is no clicking sound			○				◎		
	Battery terminal is loose								◎	
	When battery is checked, battery electrolyte is found to be low			◎						
Troubleshooting	Specific gravity of electrolyte, voltage of battery is low			●						
	For the following conditions 1) - 4), turn the starting switch OFF, connect the cord, and carry out troubleshooting at ON									
	1) When terminal B and terminal C of starting switch are connected, engine starts									●
	2) Even when terminal B and terminal C of starting motor (magnet switch) are connected, engine does not start				●					
	3) When terminal B and terminal C of starting motor (magnet switch) are connected, engine starts					●				
	4) There is no 24V between battery relay terminal M and terminal E						●			
	When ring gear is inspected directly, tooth surface is found to be chipped				●					
Troubleshooting of electrical system			-	Replace	Replace	Replace	Replace	Replace	Replace	Replace
Remedy										

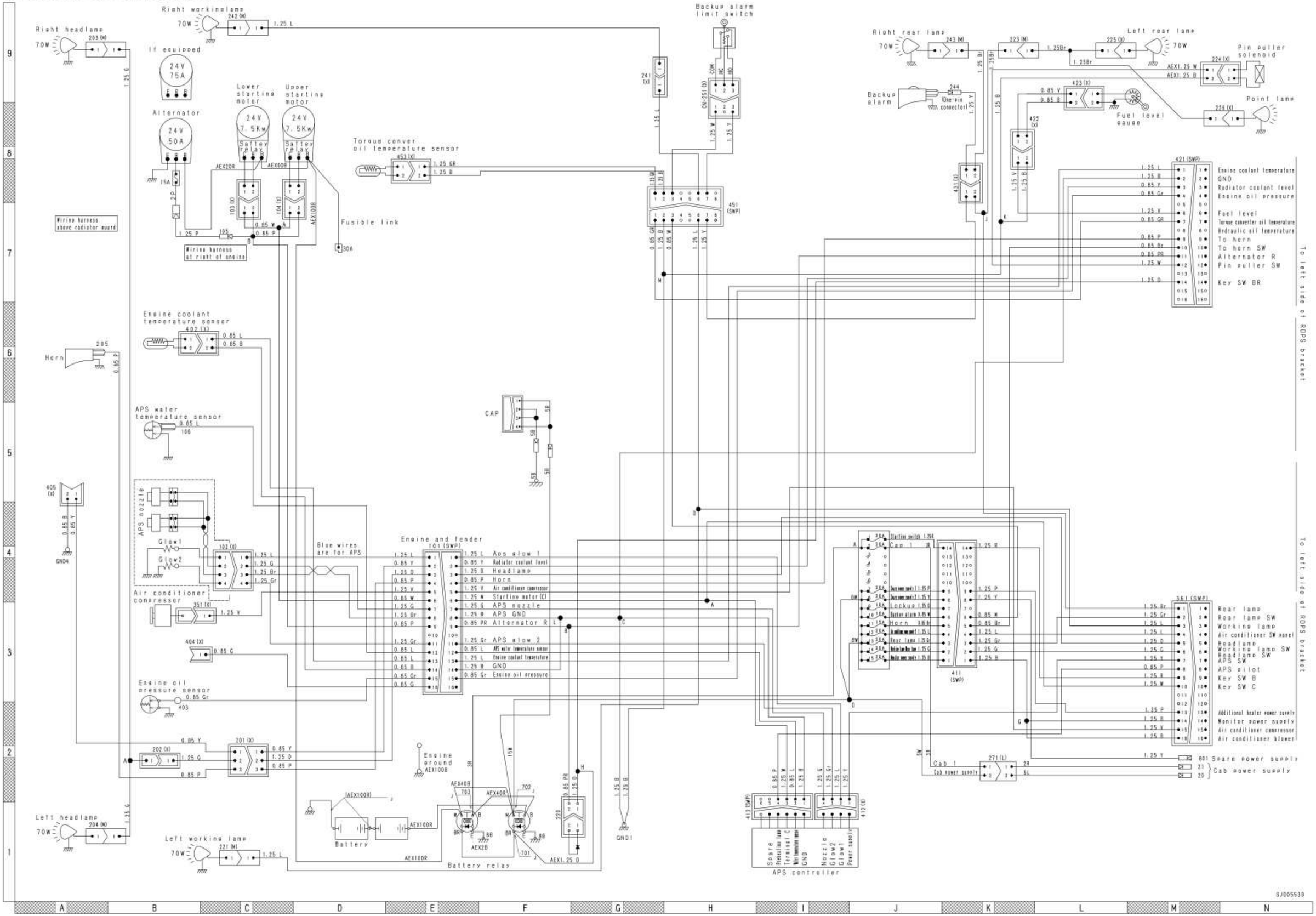
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Cause	Remedy
Defective APS controller	Replace
Defective contact, or disconnection in wiring harness between CN412 (female) (2) - CN101 (1) - CN102 (female) (1), or between CN412 (female) (3) - CN101 (11) - CN102 (female) (4)	Repair or replace
Defective contact, or disconnection in wiring harness between CN102 (male) (1) and glow plug 1, or between CN102 (male) (4) and glow plug 2	Repair or replace
Defective glow plug 1 or glow plug 2	Replace
Defective contact, or disconnection in wiring harness between CN412 (female) (4) - CN101 (7) - CN102 (female) (2), or between CN413 (female) (1) - CN101 (8) - CN102 (female) (3)	Repair or replace
Defective contact, or disconnection in wiring harness between CN102 (female) (2), (3) and APS nozzle terminal	Repair or replace
Defective APS nozzle	Replace (part where resistance value is abnormal)
Defective contact, or disconnection in wiring harness between CN413 (female) (3) - CN361 (male) (10).	Repair or replace
Defective contact, or disconnection in wiring harness between CN413 (female) (1) - chassis	Repair or replace

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ELECTRICAL CIRCUIT DIAGRAM (1/2)



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