SEBM026600

SHOP MANUAL

KOMATSU®

D375A-3

MACHINE MODEL **D375A-3**

SERIAL NUMBER **17736 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-3 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-3
Serial No.					17736 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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METHOD OF USING TROUBLESHOOTING CHARTS

1. Category of troubleshooting code number

Troubleshooting Code No.	Component
S – ○○	Troubleshooting of engine
H – ○○	Troubleshooting of hydraulic, mechanical system
M – ○○	Troubleshooting of machine monitor system
E – ○○	Troubleshooting of electrical system

2. Method of using troubleshooting table for each troubleshooting mode

① Troubleshooting code number and problem
The title of the troubleshooting chart gives the troubleshooting code and failure mode (problem with the machine).

② General precautions
When carrying out troubleshooting for the failure mode (problem), precautions that apply to all items are given at the top of the page and marked with ★.
The precautions marked ★ are not given in the [ ], but must always be followed when carrying out the check inside the [ ].

③ Distinguishing conditions
Even with the same failure mode (problem), the method of troubleshooting may differ according to the model, component, or problem. In such cases, the failure mode (problem) is further divided into sections marked with small letters (for example, a), b)), so go to the appropriate section to carry out troubleshooting.
If the troubleshooting table is not divided into sections, start troubleshooting from the first check item in the failure mode.

④ Method of following troubleshooting chart

- Check or measure the item inside [ ] — [ ] (YES / NO), and according to the answer follow either the YES line or the NO line to go to the next [ ]. (Note: The number written at the top right corner of the [ ] is an index number; it does not indicate the order to follow.)
- Following the YES or NO lines according to the results of the check or measurement will lead finally to the Cause column.
  Check the cause and take the action given in the Remedy column on the right.
- Below the [ ] there are the methods for inspection or measurement, and the judgement values. If the judgement values below the [ ] are correct or the answer to the question inside the [ ] is YES, follow the YES line; if the judgement value is not correct, or the answer to the question is NO, follow the NO line.
- Below the [ ] is given the preparatory work needed for inspection and measurement, and the judgement values. If this preparatory work is neglected, or the method of operation or handling is mistaken, there is danger that it may cause mistaken judgement, or the equipment may be damaged. Therefore, before starting inspection or measurement, always read the instructions carefully, and carry out the work in the correct order.

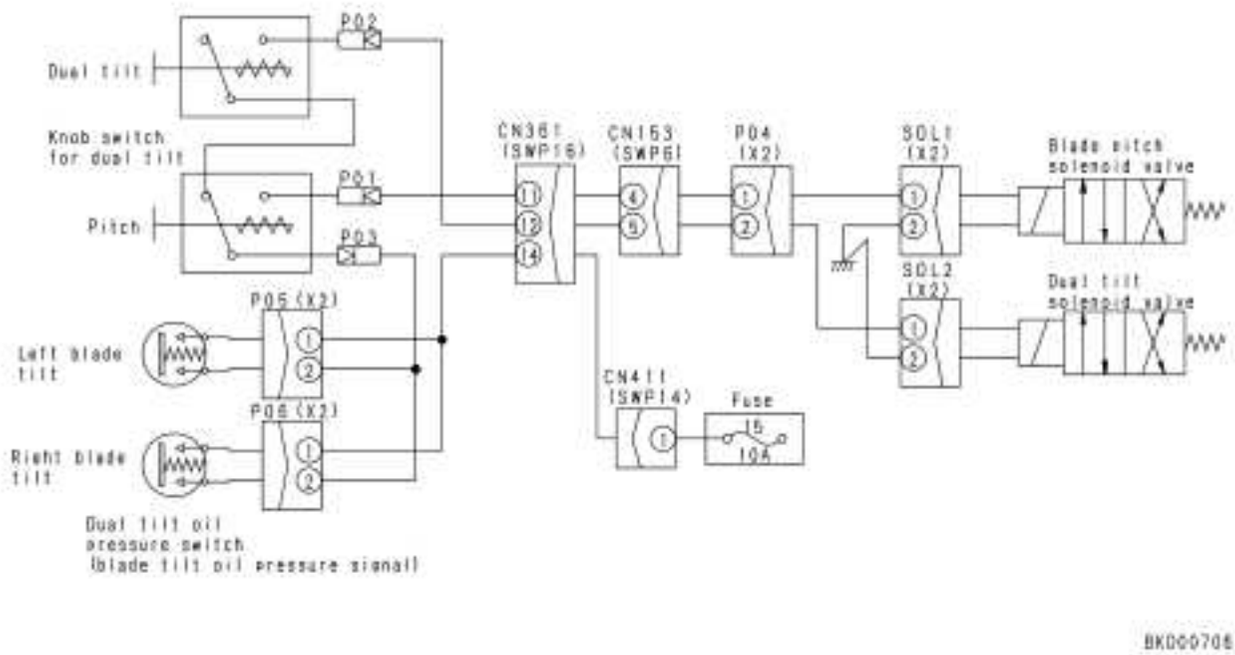
⑤ Troubleshooting tools
When carrying out the troubleshooting, prepare the necessary troubleshooting tools. For details, see TOOLS FOR TESTING, ADJUSTING, AND TROUBLESHOOTING.

⑥ Installation position, pin number
A diagram or chart is given for the connector type, installation position, and connector pin number connection. When carrying out troubleshooting, see this chart for details of the connector pin number and location for inspection and measurement of the wiring connector number appearing in the troubleshooting flow chart for each failure mode (problem).

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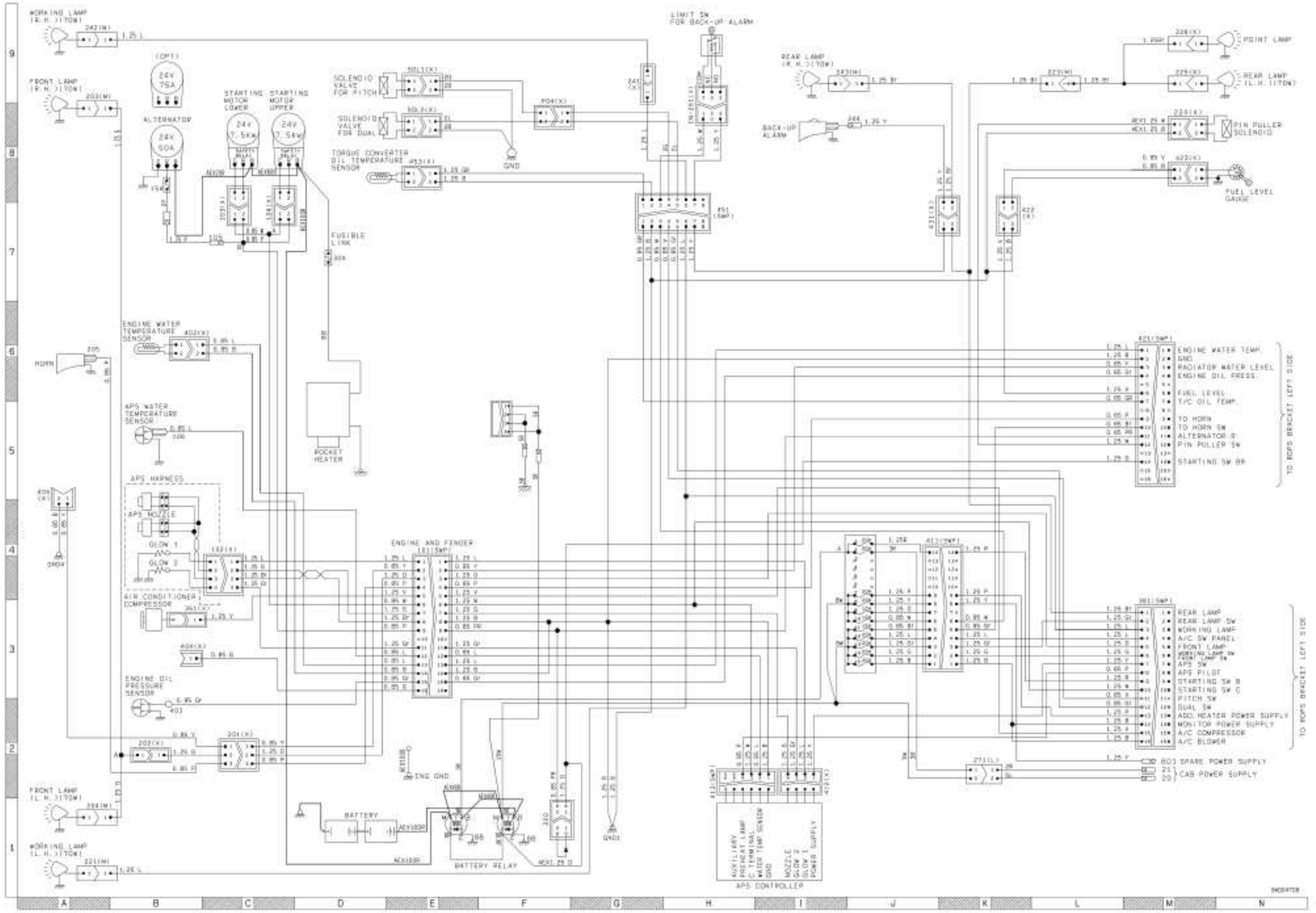
Cause	Remedy
Defective knob switch for blade pitch	Replace
Defective contact, or disconnection in wiring harness between CNSOL1 (female) (2) and chassis	Repair or replace
Defective contact, or disconnection in wiring harness between CNP01 (male) (1) - CN361 (11) - CN153 (4) - CNP04 (1) - CNSOL1 (female) (1)	Repair or replace
Defective contact, or disconnection in wiring harness between CNP05 (female) (1), CNP06 (female) (1) - CN361 (14) - CN411 (male) (1)	Repair or replace
Defective contact, or disconnection in wiring harness between fuse 1 - CN411 (1) - CN361 (14) - CNP05 (1), CNP06 (1)	Repair or replace
Defective solenoid valve for blade pitch	Replace

E-7. Related electrical circuit diagram



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ELECTRICAL CIRCUIT DIAGRAM



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