SEBM027502

SHOP MANUAL

KOMATSU®

D475A-3

(PALM CONTROL SPECIFICATION)

MACHINE MODEL	SERIAL No.
D475A-3	**10695 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.

- D475A-3 mounts the SDA12V140E-1 engine.
  For details of the engine, see the 12V140-1 Series Engine Shop Manual.

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SPECIFICATIONS

• SEMI U-TILTDOZER, U-TILTDOZER

Machine model				D475A-3
Serial No.				10695 and up
Weight	Operating weight			
	• Bare tractor		kg	75,700
	• With above + semi U-dozer			91,850
	• With above + variable giant ripper			99,150
	• With above + ROPS cab + air conditioner + perforated side cover			100,500
Performance	Min. turning radius		m	4.6
	Gradeability		deg	30
	Stability (front, rear, left, fight)		deg	35
	Speed ranges	Forward 1st	km/h	0 – 3.5
		Forward 2nd		0 – 6.3
		Forward 3rd		0 – 10.9
		Reverse 1st	km/h	0 – 4.7
		Reverse 2nd		0 – 8.4
		Reverse 3rd		0 – 14.3
	Ground pressure	Bare tractor	kPa (kg/cm²)	119 {1.22}
		With semi U-dozer		145.2 {1.48}
		With semi U-dozer + variable giant ripper		156 {1.60}
		With above + ROPS cab + air conditioner + perforated side cover		159 {1.62}
Dimensions	Overall length	Bare tractor	mm	6,420
		With semi U-dozer		8,710
		With semi U-dozer + variable giant ripper		11,570
		With U-dozer + variable giant ripper		11,950
	Overall Width	Bare tractor	mm	3,610
		With semi U-dozer		5,265
		With U-dozer		6,205
	Overall height	To top of ROPS	mm	4,570
		To tip of exhaust pipe		4,420
		To top of intake duct		3,760

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ERROR CODE B@BCZK (RADIATOR COOLANT: LEVEL REDUCTION (ZK))

Action code	Error code	Trouble	Radiator coolant: Level reduction (ZK) (Mechanical system)
—	B@BCZK		
Contents of trouble	• When turning starting switch ON, radiator coolant caution lamp flashes.		
Action of controller			
Problem that appears on machine	• If machine is operated as it is, engine may be damaged.		
Related information	• Method of reproducing error code: Turn starting switch ON.		

		Cause	Standard value in normal state/Remarks on troubleshooting
Possible causes and standard value in normal state	1	Radiator coolant level reduction (When system is in normal state)	It is suspected that problem causing radiator coolant level reduction is occurring at present or occurred in past. Investigate cause and damage condition, and correct it.
	2	Defective radiator coolant level caution lamp system	Carry out troubleshooting of radiator coolant level caution lamp system in accordance with "When the starting switch is turned on, the basic check items flash" in E mode.

ERROR CODE B@CENS (POWER TRAIN OIL: OVERHEAT (NS))

Action code	Error code	Trouble	Power train oil: Overheat (NS) (Mechanical system)
—	B@CENS		
Contents of trouble	• During rotation of engine, power train oil temperature caution lamp flashes.		
Action of controller	• Turns on caution buzzer. (Function of monitor panel)		
Problem that appears on machine	• If machine is operated as it is, power train may be damaged.		
Related information	• Method of reproducing error code: Start engine.		

		Cause	Standard value in normal state/Remarks on troubleshooting
Possible causes and standard value in normal state	1	Power train oil temperature overheat (When system is in normal state)	It is suspected that problem causing power train oil temperature overheat is occurring at present or occurred in past. Investigate cause and damage condition, and correct it.
	2	Defective power train oil temperature overheat caution lamp system	Carry out troubleshooting of power train oil temperature caution lamp system in accordance with "While the engine is operating, the emergency warning item flashes" in E mode.

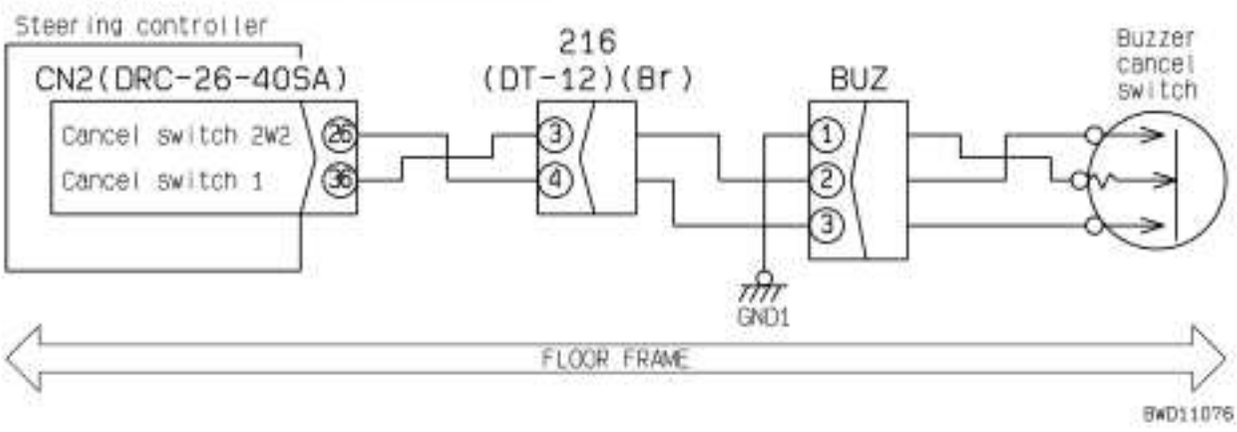
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E-24 THE ALARM BUZZER CANNOT BE CANCELLED.

Trouble	• The alarm buzzer cannot be cancelled.
Related information	

	Cause		Standard value in normal state/Remarks on troubleshooting			
Possible causes and standard value in normal state	1	Defective buzzer cancel switch (Internal disconnection or short circuit)	★ Prepare with the starting switch OFF, then carry out troubleshooting without turning the starting switch ON.			
			BUZ (male)	Buzzer cancel switch	Resistance	
			Between ① and ②	OFF (0)	Min. 1MΩ	
				◇	Max. 1Ω	
			Between ① and ③	OFF (0)	Min. 1MΩ	
				□	Max. 1Ω	
	2	Disconnection of wiring harness (Disconnection in wiring or defective contact in connector)	★ Prepare with the starting switch OFF, then carry out troubleshooting without turning the starting switch ON.			
			Wiring harness between CN2 ㊱ and BUZ (female) ②		Resistance	Max. 1Ω
			Wiring harness between CN2 ㉖ and BUZ (female) ③		Resistance	Max. 1Ω
			Wiring harness between BUZ (female) ① and ground		Resistance	Max. 1Ω
	3	Ground fault of wiring harness (Contact with ground circuit)	★ Prepare with the starting switch OFF, then carry out troubleshooting without turning the starting switch ON.			
			Between wiring harness (between CN2 ㊱ and BUZ (female) ②) and ground		Resistance	Min. 1MΩ
			Between wiring harness (between CN2 ㉖ and BUZ (female) ③) and ground		Resistance	Min. 1MΩ
	4	Defective steering controller	★ Prepare with the starting switch OFF, then turn the starting switch ON and carry out the troubleshooting.			
			CN2	Buzzer cancel switch	Voltage	
			Between ㊱ and ground	OFF (0)	20 – 30V	
				◇	Max. 1V	
			Between ㉖ and ground	OFF (0)	20 – 30V	
				□	Max. 1V	

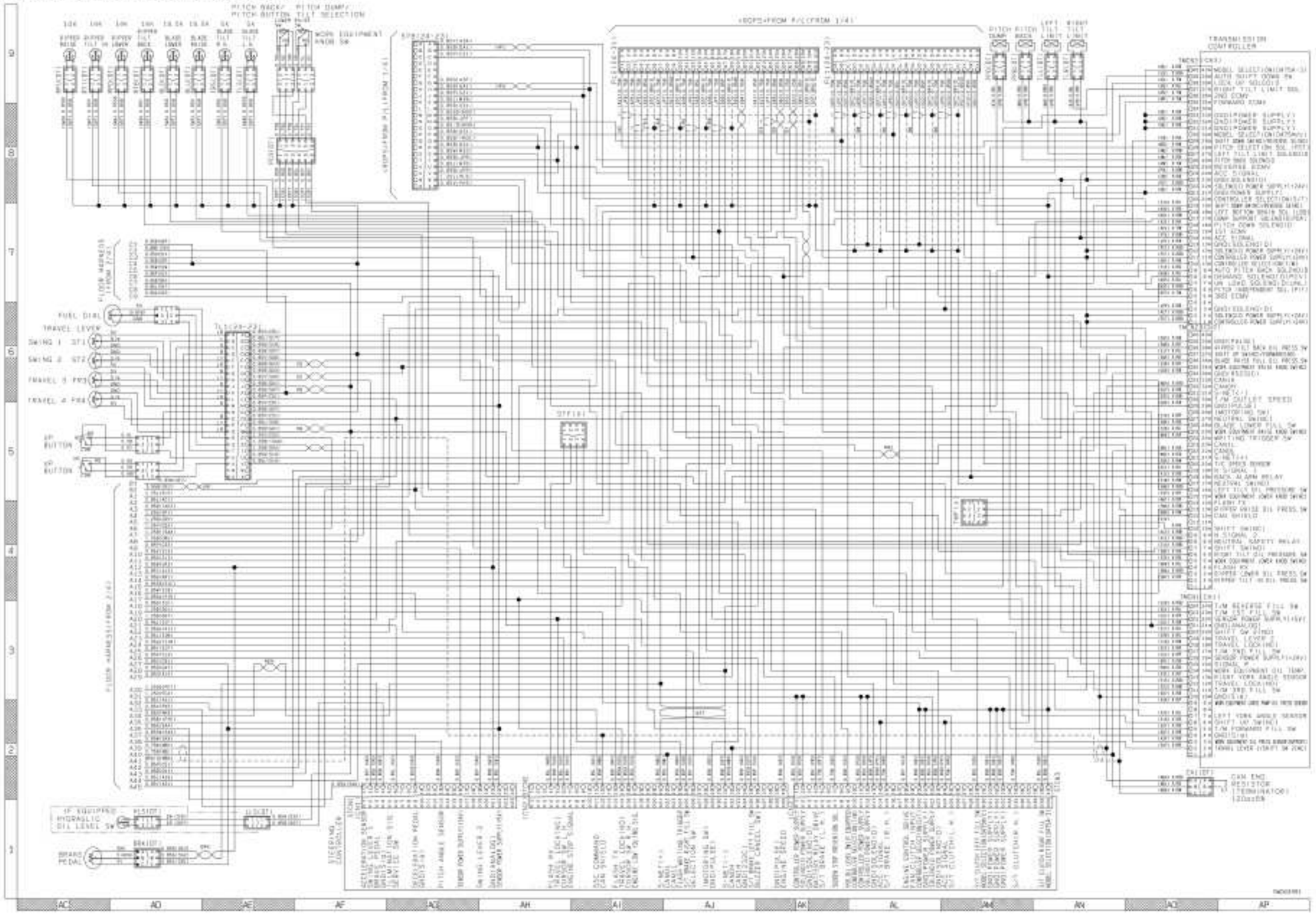
Circuit diagram related to buzzer cancel switch



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ELECTRICAL CIRCUIT DIAGRAM

CHASSIS ELECTRICAL CIRCUIT DIAGRAM (SINGLE TILT AND DUAL TILT SPECIFICATIONS) (3/4)



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