SEBM007009

SHOP MANUAL

KOMATSU®

D41E,P-6

MACHINE MODEL	SERIAL NUMBER
D41E-6	**B20001 – B40000**
D41P-6	**B20001 – B40000**
D41E-6	**50001 and up**
D41P-6	**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.

- D41E,P-6 mounts the S6D102-1 engine.
  For details of the engine, see the 102 Series Engine Shop Manual.

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SPECIFICATIONS

Machine model				D41E-6	D41P-6
Serial No.				B20001 – B40000	B20001 – B40000
Operating weight	Bare tractor		kg	8,380	8,810
	With power angle tiltdozer		kg	10,500	10,700
	With power angle tilt + winch + ROPS cab		kg	{11,780}	{12,200}
Performance	Min. turning radius		m	2.4	2.6
	Gradeability		deg	30	30
	Stability (front, rear, left, right)		deg	35	35
	Speed ranges	Forward 1st	km/h	2.4	2.4
		Forward 2nd	km/h	4.4	4.4
		Forward 3rd	km/h	7.6	7.6
		Reverse 1st	km/h	3.0	3.0
		Reverse 2nd	km/h	5.5	5.5
		Reverse 3rd	km/h	9.4	9.4
	Ground pressure	Bare tractor	KPa {kg/cm²}	32.36 {0.33}	22.56 {0.23}
		With power angle tiltdozer	KPa {kg/cm²}	40.21 {0.41}	27.46 {0.28}
		With power angle tilt + winch + ROPS cab	KPa {kg/cm²}	45.11 {0.46}	31.38 {0.32}
Dimensions	Overall length	Bare tractor	mm	3,610	3,635
		With power angle tiltdozer	mm	4,880	4,895
	Overall width	Bare tractor	mm	2,300	2,490
		With power angle tiltdozer	mm	3,045	3,045
	Overall height	To tip of exhaust pipe	mm	2,700	2,720
		To top of operator's compartment	mm	2,020	2,040
		With ROPS cab installed	mm	2,885	2,905
		With ROPS canopy installed	mm	2,885	2,905
		With canopy installed	mm	2,715	2,735

Note: The values for the weight and ground pressure in { } are reference values.

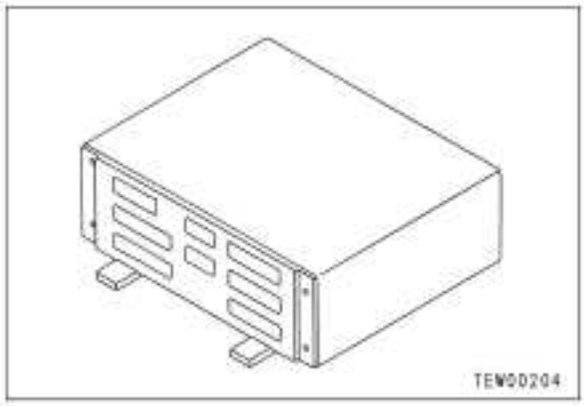
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3) **Handling control box**

[1] The control box contains a microcomputer and electronic control circuits. These control all of the electronic circuits on the machine, so be extremely careful when handling the control box.

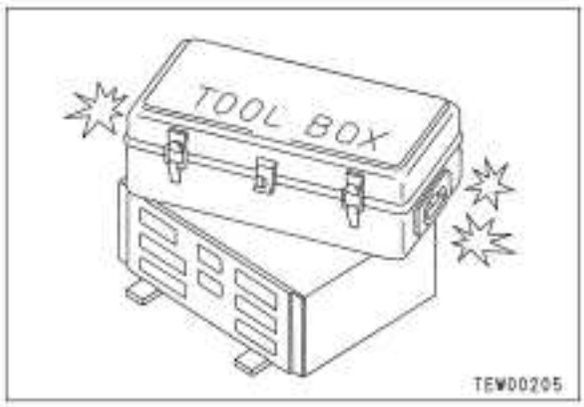
[2] Do not open the cover of the control box unless necessary.



[3] Do not place objects on top of the control box.

[4] Cover the control connectors with tape or a vinyl bag.
Never touch the connector contacts with your hand.

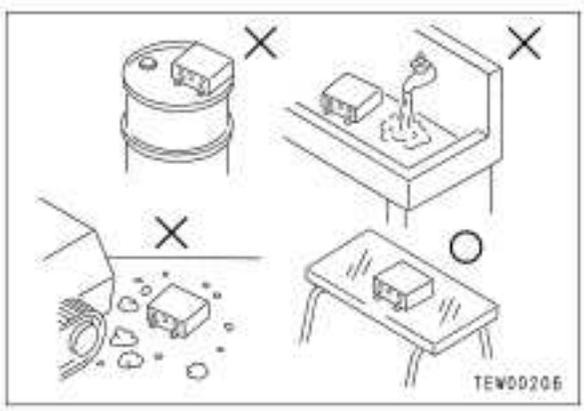
[5] During rainy weather, do not leave the control box in a place where it is exposed to rain.



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[6] Do not place the control box on oil, water, or soil, or in any hot place, even for a short time.
(Place it on a suitable dry stand).

[7] Precautions when carrying out arc welding
When carrying out arc welding on the body, disconnect all wiring harness connectors connected to the control box. Fit an arc welding ground close to the welding point.



2. Points to remember when troubleshooting electric circuits

1) Always turn the power OFF before disconnecting or connect connectors.
2) Before carrying out troubleshooting, check that all the related connectors are properly inserted.
   ★ Disconnect and connect the related connectors several times to check.
3) Always connect any disconnected connectors before going on to the next step.
   ★ If the power is turned ON with the connectors still disconnected, unnecessary abnormality displays will be generated.
4) When carrying out troubleshooting of circuits (measuring the voltage, resistance, continuity, or current), move the related wiring and connectors several times and check that there is no change in the reading of the tester.
   ★ If there is any change, there is probably defective contact in that circuit.

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b) When starting switch is turned to ON and engine is started

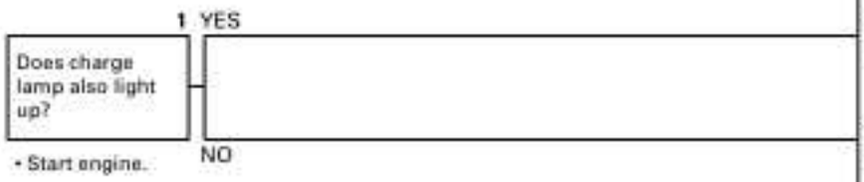


(engine oil pressure) lights up or flashes

SAP00520

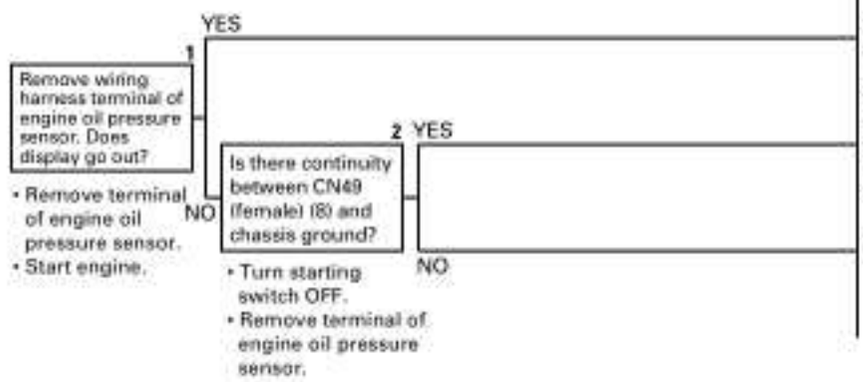
★ Check that the engine oil pressure is the specified value before starting troubleshooting.

① When it lights up



Cause	Remedy
Start troubleshooting from ※A in M-4. a)	—
Start troubleshooting from ※B in M-4. a)	—

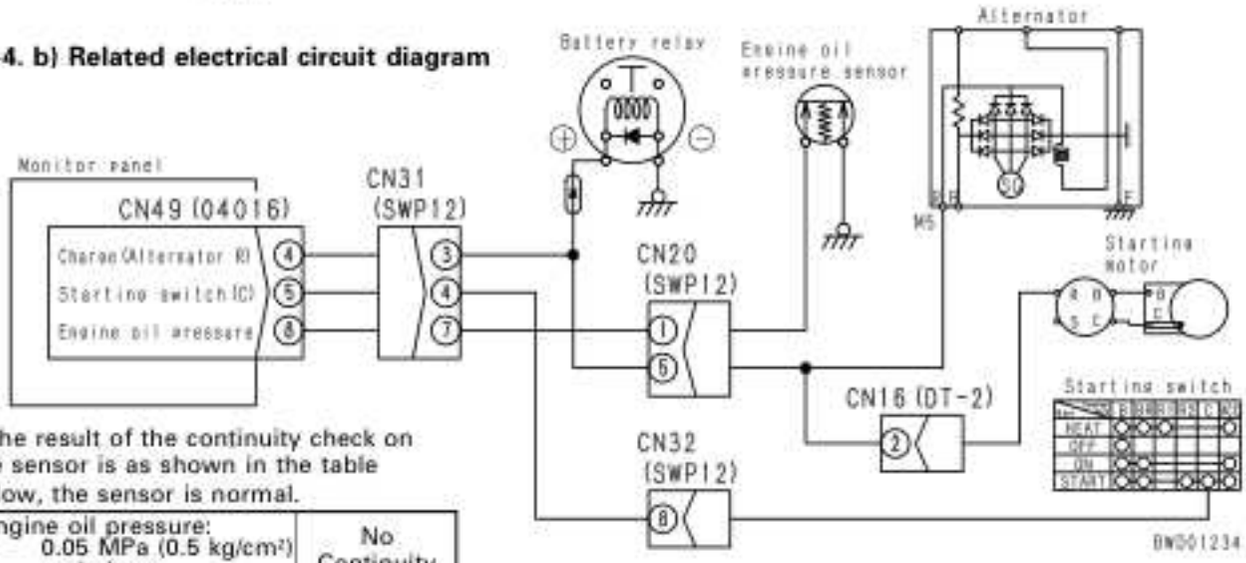
② When it flashes



Cause	Remedy
Defective engine oil pressure sensor system	Check that contact and insertion of terminal are correct, carry out sensor check according to STANDARD VALUE TABLE, replace
Contact of chassis ground with wiring harness between CN49 (8) – CN20 (1) – engine oil pressure sensor	Repair or replace
Defective monitor panel	Replace

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M-4. b) Related electrical circuit diagram



If the result of the continuity check on the sensor is as shown in the table below, the sensor is normal.

Engine oil pressure: 0.05 MPa (0.5 kg/cm²) and above	No Continuity
Engine oil pressure: Less than 0.05 MPa (0.5 kg/cm²)	Continuity

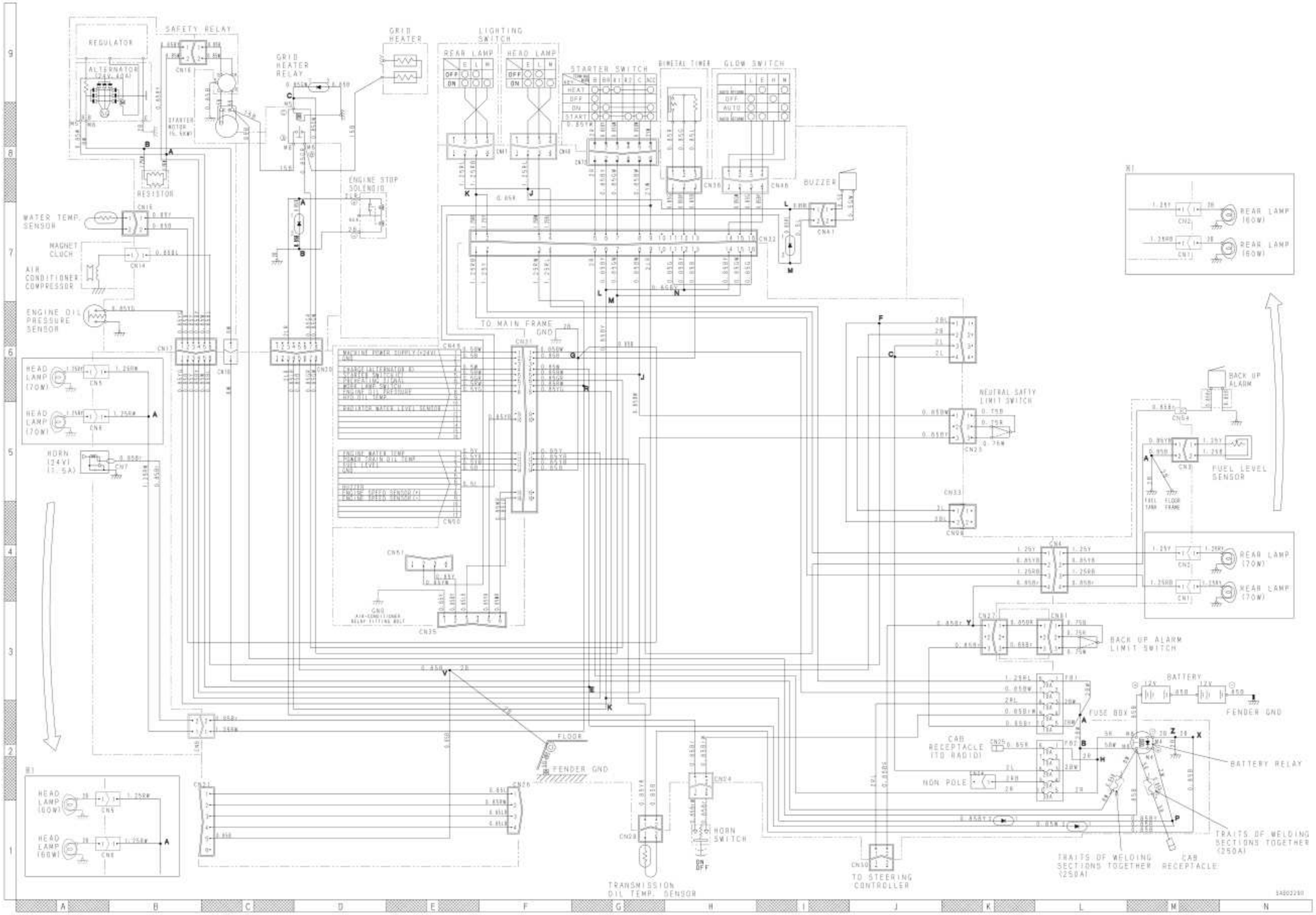
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ELECTRICAL CIRCUIT DIAGRAM

WITHOUT CAB
Serial No.: B20001 – B40000
Serial No.: 50001 – 50200

***1. Serial No.: B20501 – B40000**

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