SEN04151-00

Shop Manual

BULLDOZER

D63E-12

SERIAL NUMBERS 2001 and up

KOMATSU®

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Composition of shop manual

The contents of this shop manual are shown together with Form No. in a list.

Note 1: Always keep the latest version of this manual in accordance with this list and utilize accordingly.
The marks shown to the right of Form No. denote the following:
○: New issue (to be filed additionally) ●: Revision (to be replaced for each Form No.)

Note 2: This shop manual can be supplied for each Form No.

Note 3: To file this shop manual in the special binder for management, handle it as follows:
- Place a divider on the top of each section in the file after matching the Tub No. with No. indicated next to each Section Name shown in the table below:
- File overview and other materials in sections in the order shown below and utilize them accordingly.

Section Title	Form Number
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100 Index	SEN04160-00
200 Foreword and general information	SEN04161-00
01 Specification	SEN04153-00
100 Index	SEN04629-00
10 Structure, function and maintenance standard	SEN04154-00
100 Engine and cooling system	SEN04630-00
210 Power train, Part 1	SEN04631-00
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300 Undercarriage and frame	SEN04633-00
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500 Work equipment	SEN04636-00
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Weight table

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

Unit: kg

Machine Model	D63E-12
Serial Numbers	2001 and up
Engine, damper assembly	910
• Engine assembly	867
• Damper assembly	35
• Parts mounted to engine (wiring)	8
Radiator assembly (including oil cooler)	132
• Oil cooler assembly (for hydraulic oil)	13
• Fuel tank assembly	154
Transmission assembly	350
• Transmission valve assembly	12
• Main relief valve assembly	5
Torque converter, PTO assembly	320
• Steering clutch and brake bevel gear shaft assembly	1,360
Final drive assembly (each side)	750
Sprocket assembly (each side)	14.4 × 5
Track group assembly (each side)	1,356
• Track frame	541
• Idler cushion assembly (each side)	371
• Track roller assembly (single: 1)	53 × 4
• Track roller assembly (double: 1)	61 × 2
• Carrier roller assembly (1)	27 × 2
• Track guard	56
Track shoe assembly (each side) (single) (560 mm, wet type)	1,365
Pivot shaft (each side)	90
Equalizer bar	120
Hydraulic tank assembly	47
Main control valve	
• Lift + tilt + ripper	25
Engine underguard	59
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Testing before troubleshooting

	Item	Criteria	Remedy
Lubricating oil and coolant	1. Check of level and type of fuel	—	Add fuel
	2. Check for foreign matter in fuel Check fuel filter and fuel pre-filter for clogging	—	Clean or drain
	3. Check of fuel filter for clogging	—	Replace
	4. Check of level and type of oil in engine oil pan	Between H and L	Add oil
	5. Check of coolant level	Between FULL and LOW	Add coolant
	6. Check of air cleaner for clogging	No red	Clean or replace
	7. Check of level and type of hydraulic oil	Between H and L	Add oil
	8. Check of engine oil filter for clogging	—	Replace
	9. Check of hydraulic oil filter for clogging	—	Replace
Electrical parts	10. Check of battery terminal cables for looseness and corrosion	—	Retighten or replace
	11. Check of alternator terminal cables for looseness and corrosion	—	Retighten or replace
	12. Check of starting motor terminal cables for looseness and corrosion	—	Retighten or replace
	13. Check of operation of instruments	—	Repair or replace
Hydraulic and mechanical equipment	14. Check for abnormal noise and smell	—	Repair
	15. Check for oil leakage	—	Repair
	16. Bleeding air	—	Bleed air
	17. Check of effect of brake	—	Repair or adjust
Electrical equipment	18. Check of battery voltage (with engine stopped)	20 – 30 V	Charge or replace
	19. Check of battery electrolyte level	Between U.L and L.L	Add or replace
	20. Check wires for discoloration, burn, and removal of cover	—	Replace
	21. Check for removed wire clamp and drooping wire	—	Repair
	22. Check wiring for wetting with water (Check connectors and terminals for wetting with water, in particular)	—	Disconnect and dry connectors
	23. Check of slow-blow fuses and fuses for disconnection and corrosion	—	Replace
	24. Check of alternator voltage (with engine at medium speed or higher)	After several-minute operation: 27.5 – 29.5 V	Repair or replace
	25. Check of operating sound of battery relay (Starting switch OFF → ON)	—	Replace

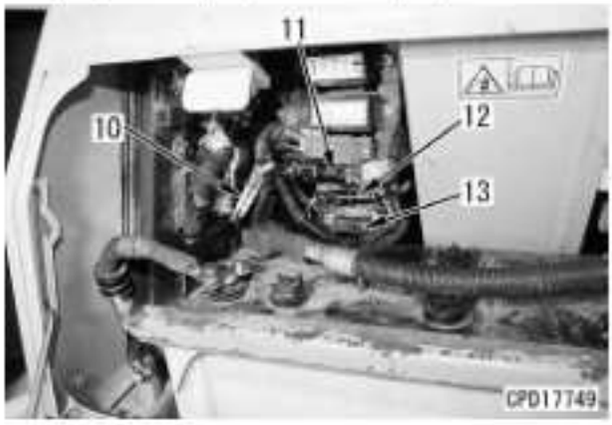
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9. Remove battery cover (9).
   Battery cover: **40 kg**



10. Disconnect 4 washer hoses (10).

11. Disconnect wiring harness connector CN-58 (11), CN-26 (12) and CN-25 (13).



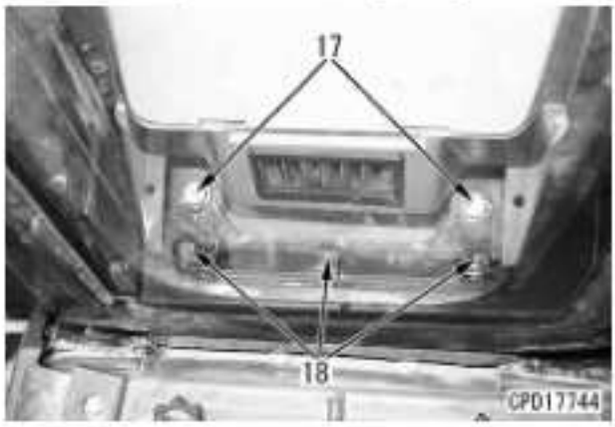
12. Pull out the grommet and wiring harness (14) from the hinge of the left door into the operator cab. [*1]



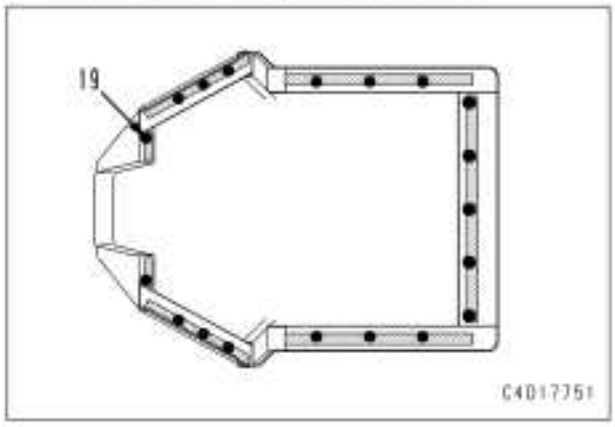
13. Remove 2 mounting bolts (15) and cover (16).
    ★ The following is a view from the front of the operator cab through the glass.



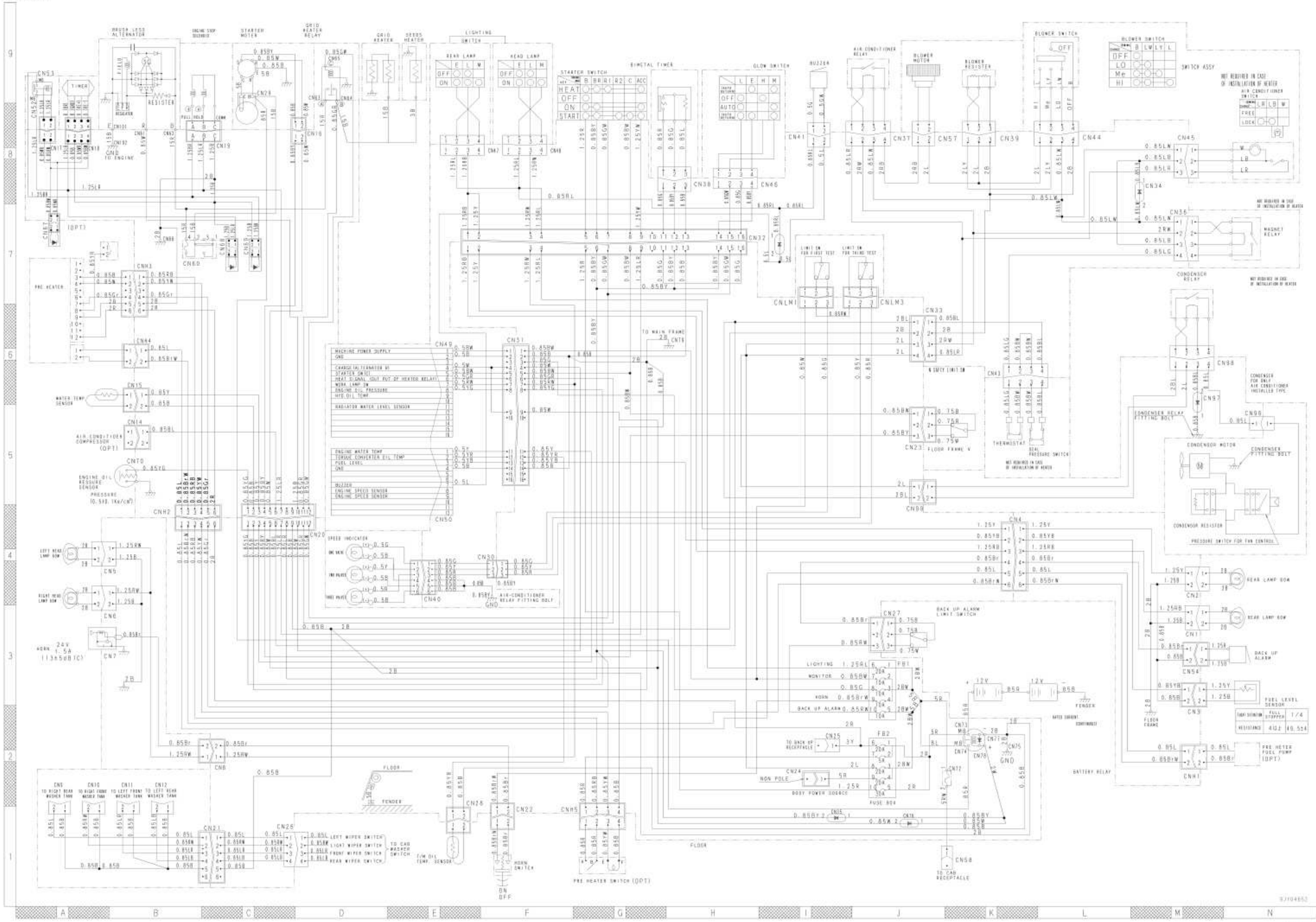
14. Remove 2 mounting bolts (17) and 3 mounting bolts (18).
    ★ The following is a view from the front of the operator cab through the glass.



15. Remove the grommet and 19 operator cab mounting bolts (19) marked with ●.



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