SEBM018906

SHOP MANUAL

KOMATSU®

D61EX,PX-12

MACHINE MODEL	SERIAL NUMBER
D61EX-12	**1001 and up**
D61EX-12	**B1001 and up**
D61PX-12	**1001 and up**
D61PX-12	**B1001 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.
- D61-12 mounts the S6D114E-1A and SA6D114E-2 engine.

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SPECIFICATIONS

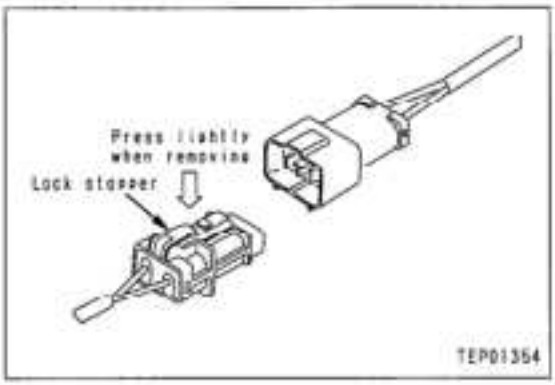
Machine model				D61EX-12	D61PX-12
Serial Numbers				1001 – 1173 B1001 – B3000	1001 – 1173 B1001 – B3000
Weight	Operating weight				
	• bare tracktor		kg	13,130	14,150
	• with angle tiltdozer			15,470	16,780
	• with angle tiltdozer + cab + ROPS			16,090	17,790
Performance	Min. truning radius		m	3.6	3.6
	Gradeability		deg	30	30
	Stability (front, rear, left, right)		deg	35	35
	Speed ranges	Forward 1st	km/h	3.5	3.5
		Forward 2nd		6.0	6.0
		Forward 3rd		10.3	10.3
		Reverse 1st	km/h	4.6	4.6
		Reverse 2nd		7.9	7.9
		Reverse 3rd		12.8	12.8
	Ground pressure	Bare tractor	kPa (kg/cm²)	41 (0.42)	25 (0.26)
		Angle tiltdozer		49 (0.50)	30 (0.31)
		Angle tiltdozer + cab + ROPS		50 (0.51)	31 (0.32)
Dimensions	Overall length	Bare tractor	mm	3,935	4,210
		With angle tiltdozer		5,030	5,465
	Overall width	Bare tractor	mm	2,500	3,000
		With angle tiltdozer		3,275	3,860
	Overall heights	To tip of exhaust pipe	mm	2,945	2,970
		To top of operator's compartment		2,195	2,225

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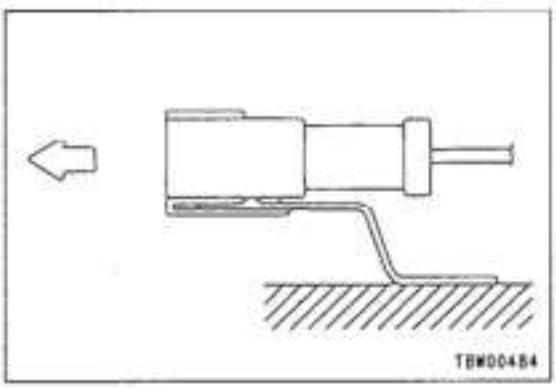
2) Removing, installing, and drying connectors and wiring harnesses

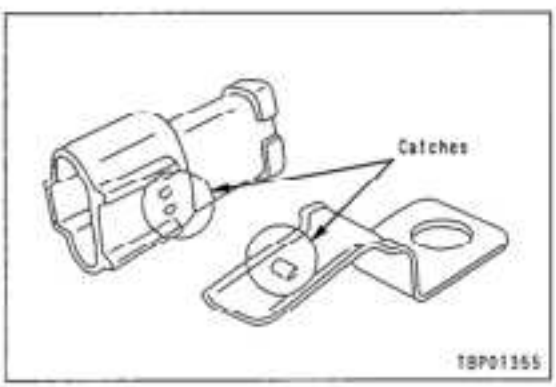
- **Disconnecting connectors**

① Hold the connectors when disconnecting.
When disconnecting the connectors, hold the connectors and not the wires. For connectors held by a screw, loosen the screw fully, then hold the male and female connectors in each hand and pull apart. For connectors which have a lock stopper, press down the stopper with your thumb and pull the connectors apart.
★ Never pull with one hand.

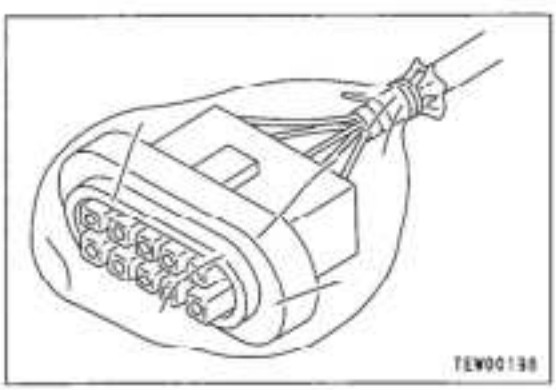


② When removing from clips
When removing a connector from a clip, pull the connector in a parallel direction to the clip.
★ If the connector is twisted up and down or to the left or right, the housing may break.





③ Action to take after removing connectors
After removing any connector, cover it with a vinyl bag to prevent any dust, dirt, oil, or water from getting in the connector portion.
★ If the machine is left disassembled for a long time, it is particularly easy for improper contact to occur, so always cover the connector.



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HOW TO FOLLOW THE TROUBLESHOOTING FLOW DIAGRAMS

1. Categorizations of the troubleshooting codes

Troubleshooting Codes	Object equipment of troubleshooting
E-○○	Troubleshooting for electric system
H-○○	Troubleshooting for hydraulic and mechanical system
M-○○	Troubleshooting for monitor system

2. How to follow the troubleshooting (method) with each troubleshooting code

① Troubleshooting code and failure phenomena
The troubleshooting code and failure phenomena are indicated in upper left section of these troubleshooting pages/

② General precautions
Common precautions to all the cases of the subject troubleshooting are listed below the failure phenomena with ★ marking.
Since these ★ marked precautions are being omitted in the bordered [ ] descriptions and be sure to observe the ★ marked precautions when inspecting the content of the bordered [ ] descriptions.

③ Sub-divisioning
Even if a same type of failures, when the troubleshooting method differs depending on the machine models, equipment types and phenomena, the failure phenomena are divided to sub-divisions a), b)... and select the corresponding case to conduct troubleshooting.
In case such sub divisions are not made, start from the initial trouble shooing block.

④ How to proceed with the troubleshooting
- After making inspections or measurements designated in a ordered block [ ] — YES / NO, select either one route of "YES" or "NO" to proceed to the next block [ ]. (Note: numbers given at upper right of each block boarder [ ] are merely for indexing purposes and they do not designate the sequence to follow.)
- After making inspections or measurements designated in the bordered block when the selected "YES" or "NO" route goes direct to the Failure Cause column, read the failure cause content and execute the content of remedy given in the remedy columns at right.
- [ ] Indicated below each bordered block [ ] are inspection methods, measurement methods, determination criteria, etc. for the case and if your inspection or measurement results meet the criteria or questions, follow the "YES" route and if they do not, follow the "NO" route.
- Below the bordered block [ ], necessary preparations for the inspection or measurement and determination criteria are also indicated. If you fail to make these necessary preparations or if you adopt wrong operation method or handling method, wrong determination can be made or the subject equipment or used instrument may be damaged. Therefore, read these descriptions carefully before starting the inspection or measurement work and follow the correct procedures observing the contents.

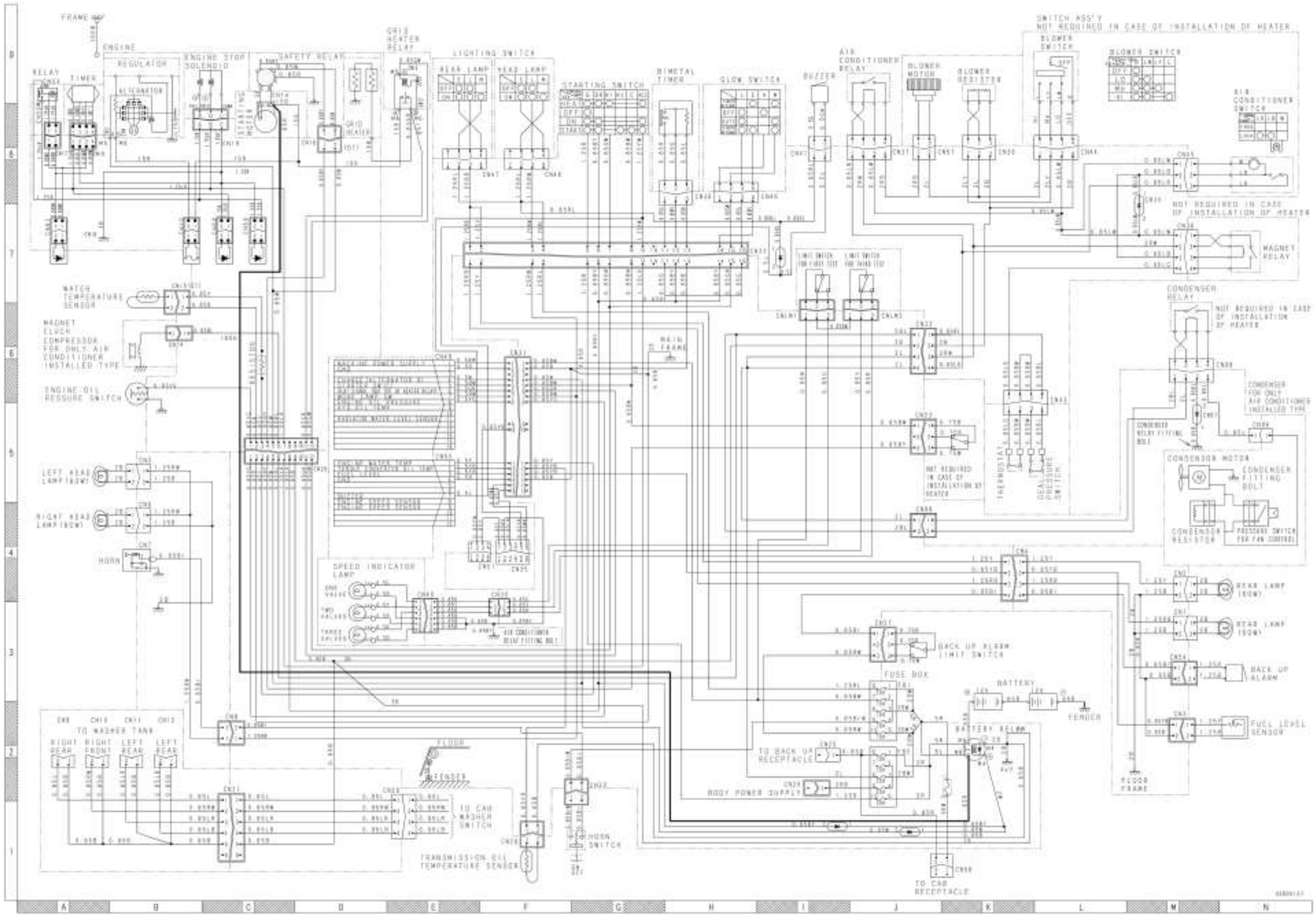
⑤ Troubleshooting tools
Prepare necessary troubleshooting tools referring to "List of equipment, parts and tools necessary for inspections, adjustments and for troubleshooting" before starting the troubleshooting work.

⑥ Connecting equipment and part names and connector numbers
When the flow diagram of these troubleshooting pages designate inspections or measurements of harness connectors find the locations and connector numbers of these connectors referring to the listing under the title of "Connector types and connecting equipment and part names".

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ELECTRIC CIRCUIT DIAGRAM

Serial No. B3001 and up
CAB SPECIFICATION



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