SEN01081-19

Shop Manual

DUMP TRUCK

HD465-7E0
HD605-7E0

SERIAL NUMBERS

HD465- 10001-10037
HD465- 10101 and up
HD605- 8001-8032
HD605- 10101 and up

ecot3

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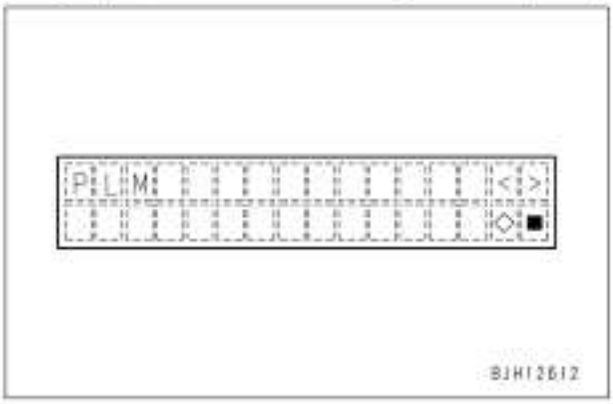
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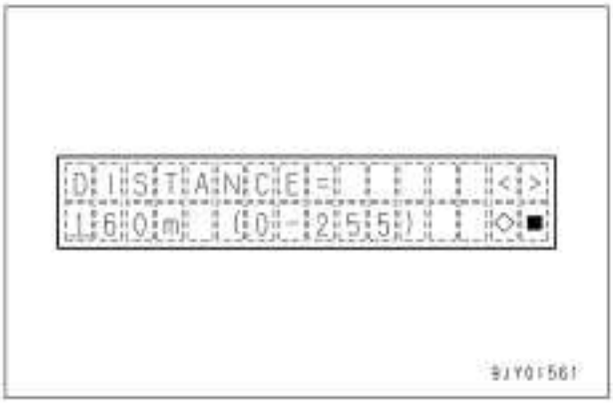
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Set various items of the payload meter (PLM) with the machine monitor.

1. Selection of service menu
   While the service menu selection screen is displayed, select the PLM setting function (PLM).



2. Setting of travel distance to recognize completion of loading



Input a travel distance to recognize completion of loading by pressing the following buttons.
The setting range is 0 – 255 m (0.0 – 0.158 miles).

- [>] button: Number at cursor moves forward
- [<] button: Number at cursor moves backward
- [◇] button: Enter number at cursor
- [■] button: Stop inputting number

★ If the set value is too small, the system may recognize that loading is completed while the machine is still being loaded.

3. Correction of calculation of load weight

★ Since this function affects the accuracy directly, execute the following procedure securely.

★ Be sure to measure the weight of the empty machine and that of the fully loaded machine as a set in order according to the following procedure.

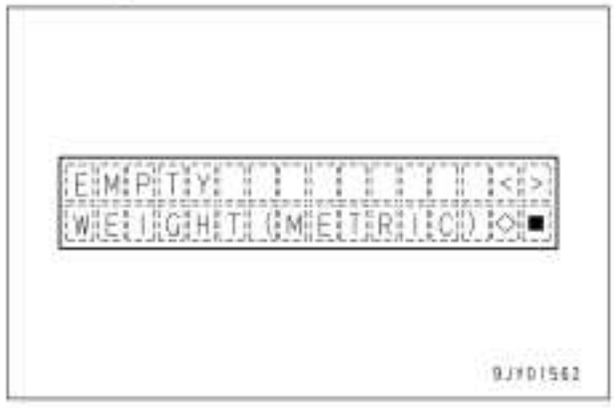
★ The machine must travel for about 3 minutes each after its empty weight and its fully loaded weight are measured. Accordingly, secure a road for this purpose.

★ The relationship between the suspension pressure and load weight corrected with this function cannot be returned to the condition at the time of shipment. Accordingly, perform the following procedure very carefully.

1) Measure the weight of the empty machine with the load meter and record it (Write it on a sheet of paper, etc.)

2) Input the measured weight of the empty machine and drive the machine for about 3 minutes.

   1] Select "EMPTY WEIGHT".



- [>], [<] buttons: Select "EMPTY WEIGHT" or "LOADED WEIGHT"
- [◇] button: Enter the selection
- [■] button: Return to the previous screen

If the weight of the empty machine has been input and the machine has been driven for about 3 minutes, "LOADED WEIGHT" is displayed when the menu is selected.
Check the unit of the input value. The unit is indicated in the ( ) on the right side of WEIGHT.
(METRIC): metric ton
(SHORT): short ton

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Failure code [DGT5KA] or VHMS_LED display: "n3" → "22" Exhaust gas temperature sensor (R): Disconnection

Action code	Failure code	Trouble	Exhaust gas temperature sensor (R): Disconnection (VHMS controller system)(Display: PLM)
–	**DGT5KA**		
Contents of trouble	• Input signal voltage from the exhaust gas temperature sensor on the engine rear side reads 0.5 V or less.		
Action of controller	• None in particular.		
Problem that appears on machine	• Monitoring function fails to monitor the exhaust gas temperature on the engine front side		
Related information	• The machine monitor does not display any failure code (the relevant failure code can be checked by downloading data stored in the VHMS controller). • The LED of the VHMS controller displays "n3" → "22". • The input state (temperature) from the exhaust gas temperature sensor (R) can be checked with the monitoring function (Code: 42611 EXHAUST TEMP R). • If failure code [**DBB6KP**] (VHMS controller 24 V power supply output: Low output voltage) is displayed, carry out troubleshooting for it first. • Method of reproducing failure code: Turn the starting switch ON		

	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective sensor amplifier power supply (defective wiring harness or defective VHMS & PLM controller)	1) Turn the starting switch to OFF position and disconnect the battery ground cable. 2) Disconnect connector HM-23B and connect the T-adapter to female side. 3) Connect the battery ground cable and turn the starting switch to ON position. ★ Ignore the failure code displayed		
			Between HM-23B (female) (A) and (C)	Voltage	Approx. 24 V
	2	Defective exhaust gas temperature sensor on engine rear side, or defective exhaust gas temperature sensor amplifier on engine rear side, or defective intermediate wiring harness.	★ Check that failure code [**DGT4KA**] is not displayed. 1) Turn the starting switch to OFF position. 2) Swap A and B of connector HM-21, A and B of HM-22 and A and B of HM-23 sequentially one by one. 3) Turn the starting switch to ON position and perform troubleshooting. 4) Return to step 1) and conduct the test three times to locate the failed portion.		
			If failure code [**DGT5KA**] changed to [**DGT4KA**], the defective portion must be ahead (on the right side of the replaced connectors in the related circuit diagram).		
	3	Disconnection in wiring harness (Disconnection or defective contact of connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Between HM-23B (female) (A) and HM-CN1 (female) (2)	Resistance	Max. 1 Ω
			Between HM-23B (female) (B) and HM-CN2A (female) (7)	Resistance	Max. 1 Ω
			Between HM-23B (female) (C) and HM-CN2A (female) (12)	Resistance	Max. 1 Ω

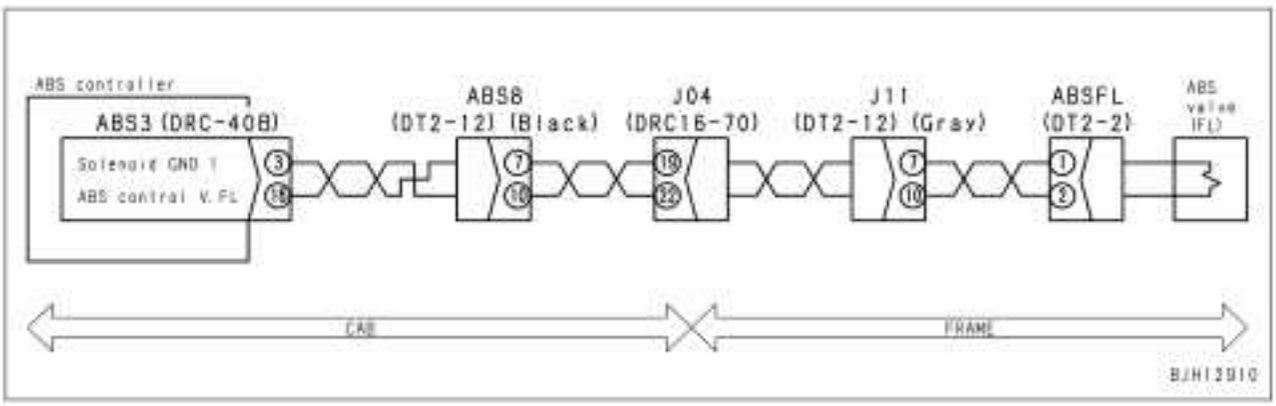
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Failure code [DX22KY] Hot short in ABS control valve output circuit (Front left)

Action code	Failure code	Trouble	Hot short in ABS control valve output circuit (Front left) (Transmission controller system)
E03	**DX22KY**		
Contents of trouble	• Abnormal current flows when no signal is output to ABS control valve solenoid circuit.		
Action of controller	• Stop outputting to ABS control valve (Front left) solenoid circuit. (Stop ABS control.)		
Problem that appears on machine	• ABS does not work. • Ordinary brake operation can be carried out.		
Related information	• Output to ABS control valve (Front left) solenoid can be checked with the monitoring function. (Code: **43308**, output current (**0 – 1000 (mA)**)) • No signal is output to ABS control valve solenoid until starting switch is turned OFF.		

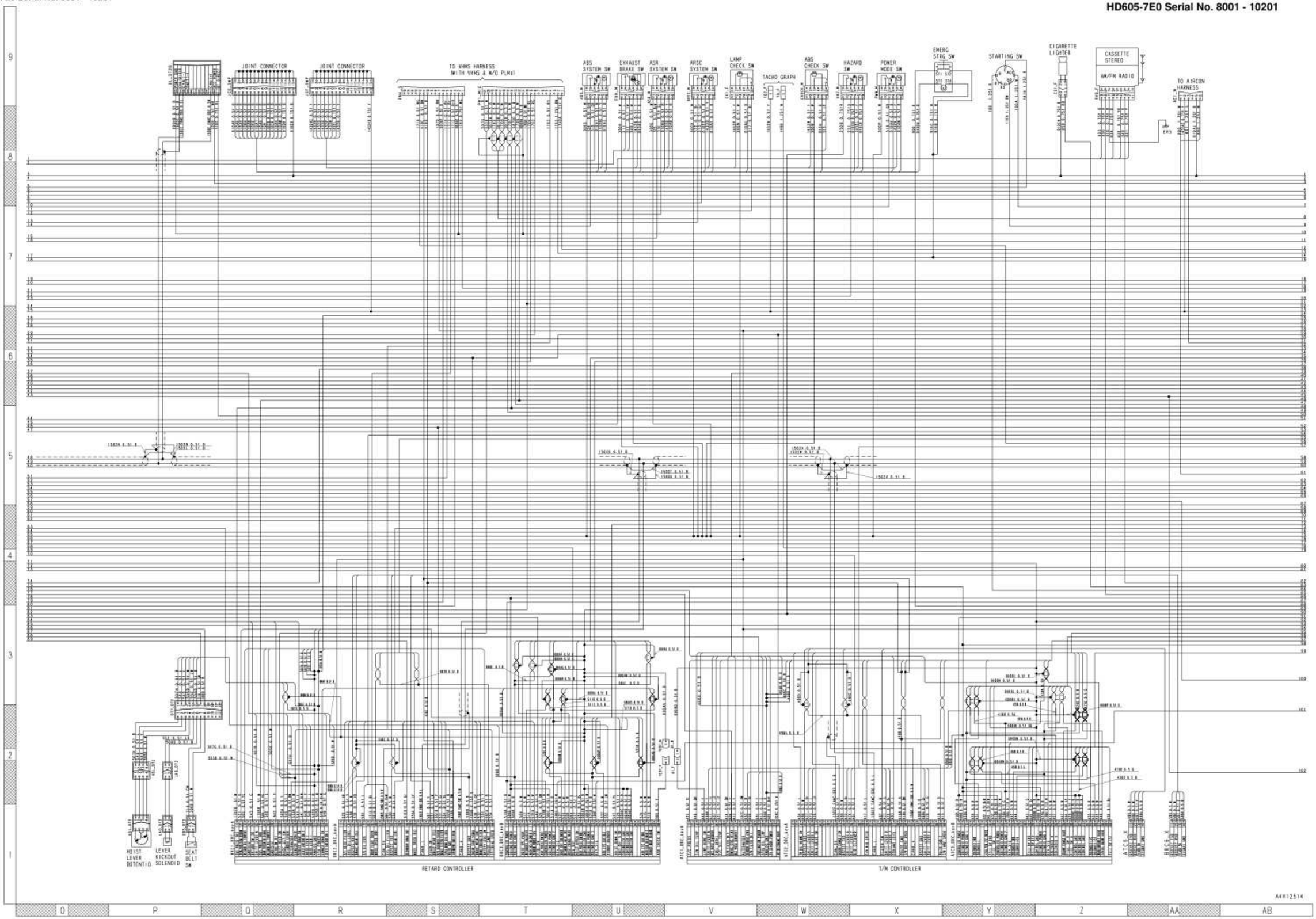
Possible causes and standard value in normal state		Cause	Standard value in normal state/Remarks on troubleshooting		
	1	Hot short circuit in wiring harness (Contact with 24V circuit)	1) Turn the starting switch OFF. 2) Disconnect connectors ABS3 and ABSFL. 3) Connect T-branch to connector ABS3. (With connector ABSFL being disconnected) 4) Turn starting switch ON and carry out troubleshooting.		
			Between ABS3 (female) (16) and ground	Voltage	Max. 1 V
	2	Defective ABS controller	1) Turn the starting switch OFF. 2) Disconnect connector ABS3. 3) Connect T-branch.		
			Wiring harness between ABS3 (female) (16) – ABS3 (female) (3) terminal	Resis-tance	10 – 30 Ω

Circuit diagram related



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Electrical circuit diagram inside cab (2/3)
HD465-7E0, HD605-7E0
HD465-7E0 Serial No. 10001 - 10204
HD605-7E0 Serial No. 8001 - 10201



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