

# PARTS & SERVICE NEWS

REF NO. AT04200

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(C)

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**SUBJECT:** REPLACEMENT AND MODIFICATION OF THE VHMS CONTROLLER

**PURPOSE:** To inform Field Personnel

**APPLICATION:** HD465-5 Truck, S/N 4001 and up  
HD605-5 Truck, S/N 1001 and up  
HD785-5 Truck, S/N 4001 and up  
HD985-5 Truck, S/N 1021 and up

**FAILURE CODE:** DBB0MA

**DESCRIPTION:**

1. Introduction:

It was found that certain administration data (starting switch on/off history, etc.) that the VHMS controller has to obtain from the machine are not obtained sometimes. The VHMS controller must be replaced with or modified to a controller for which proper countermeasures have been taken.

2. List of Parts:

Part No.	Part Name	Purpose of Part	Qty	Remarks
HD985-5 and HD785-5				
7826-10-5002 (7826-10-5001)	VHMS Controller (VHMS Controller)	Replacement	1 (1)	
HD605-5 and HD465-5				
7826-10-8002 (7826-10-8001)	VHMS Controller (VHMS Controller)	Replacement	1 (1)	

## 1. Precautions in replacement of the device

### (1) Before starting replacement,

#### 1) Download of VHMS data

The failure history data up to the replacement will be lost, therefore first download the accumulated data.

Since it is necessary to input the downloaded data into the WebCare (database), transmit the data to KOMATSU by email or FTP.

(The email address is provided at the bottom of the attached section II) VHMS setting procedure (After replacement).)

For information as to how to download and transmit data to WebCare, refer to the Instruction Manual for the VHMS technical analysis tool. If you have any question, contact the mailing address.

#### 2) Checking and recording the contents of the VHMS settings

After replacing the VHMS controller, it becomes necessary to make resetting of the data.

In order to make proper setting, check the contents of the current settings and record them onto the attached check sheet.

Attachment

I) Checking procedures of contents of VHMS setting (before replacement)

II) Setting procedures of VHMS (after replacement)

III) VHMS work procedure check sheet (When replacing)

IV) VHMS initial setting procedures (Orbcomm initial setting) for vehicle equipped with Orbcomm

V) Orbcomm initial setting work check sheet for vehicle equipped with Orbcomm

Refer to the above for the implementation.

#### 3) Properly shutting down the VHMS power supply

<1> Shut down the ordinary power supply by turning OFF the starter switch, etc.

<2> Hold the firm power supply at the specified state for at least 2 minutes.

Check that the "7 Segment LED" is turned off.

<3> Shut down the firm power supply.  
(Disconnect the connector CN1 of the VHMS controller or remove the battery.)



7-segement LED

### (2) Replacement method, setting method and measures to be taken after finishing the replacement work

<1> Precautions when replacing the VHMS controller: Actual replacement procedure will be described on the next page and after.

Be careful not to apply excessive force, shocks, etc. to the controller body, wire harnesses, etc.

Regarding the connectors to the VHMS controller body, first disconnect CN1 that contains the power line, when removing the existing VHMS controller, and connect it finally after installing the new VHMS controller.

<2> Setting after replacement

It is necessary to make data setting to the VHMS controller after it is replaced.

Set properly by referring to the relevant shop manual.

Setting items:

· Day, hour, and minute

· Settings of the vehicle model, serial number, etc.

· Settings of the component serial number, etc.

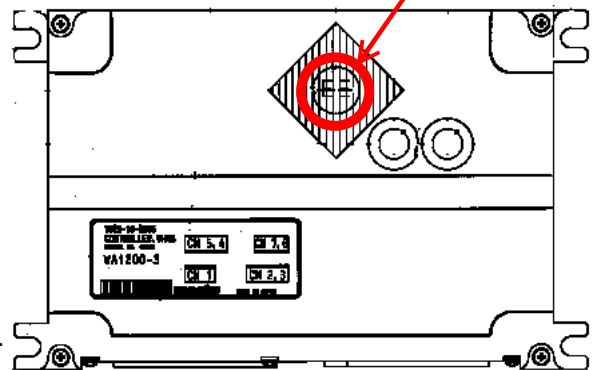
For the following vehicle with optional settings, set as follows:

Vehicle equipped with PLM: Setting of PLM

Vehicle equipped with Orbcomm: Orbcomm initial setting

<3> Handling of the old controller after replacement

Return the old controller to the following address:



- <4> Mounting of replacement VHMS  
Fix a new VHMS controller to the bracket with the bolt and washer <3>.  
\* Be careful to fix the controller in the correct direction.
- <5> Attaching of wiring harness  
Mate the connectors in the reverse procedures to <2> so that HM-CN1 is placed to the end.  
\* Recheck if the connection is correct, the connectors are mated properly and excessive force is not applied to the wiring harness.
- <6> Attaching of cover

### (3) Setting of vehicle information

Turn on power to the vehicle and set the following items properly by referring to the relevant shop manual.

To check the settings, complete III) Work check sheet.

- 1) Setting of calendar  
-- Current date, hour, and minute

[Check the following against the value confirmed/recorded before replacing the controller or set to the value.]

- 2) Setting the time zone
- 3) Checking/setting vehicle model name, etc.  
-- Vehicle model name, type and serial number.
- 4) Setting the engine serial number
- 5) Setting of transmission serial number  
-- Setting the transmission serial number to engine serial No. 2.

Implement the following to the vehicle equipped with Orbcomm by referring to IV) VHMS initial setting procedures (Orbcomm initial setting).

- 6) Enter the set value of the S.Fault History.
- 7) Enter the set value of S.Trend Analysis.
- 8) Enter the set value of Short payload data (when the PLM is mounted).
- 9) Setting GCC code

### (4) Sending downloaded data/returning VHMS controller

- Send data downloaded in 4-(1) by email to the WebCARE Support Center.  
(The email address is provided at the bottom of the attached section II) VHMS Setting Procedure (After Replacement).)
- Also, send III) Work check sheet completed in 4-(4) by fax to the above address.
- Return the VHMS controller removed in 4-(3)-<3>.

2. Replacement procedures

(1) Downloading data and checking and recording the contents (data)

Park the vehicle on a level and hard ground and download data accumulated internally using the PC tool. Send the downloaded data to the address provided in the attached II) VHMS setting procedure (After Replacement) by email. Then, check the settings of VHMS and record them on the III) Work check sheet. (For the vehicle equipped with Orbcomm, record them on the Orbcomm initial setting work check sheet as well.)

(2) Shutoff of vehicle power supply

Turn off the starter key to shut off power to the vehicle.

(3) Replacement of the VHMS controller

After a lapse of at least 2 minutes from (2) above, replace the VHMS controller installed in the rear box inside the operator's cab following the procedure described below.

<1> Open the cover of the rear box in the cab. (Fig. 1)

<2> Removal of wiring harness (Fig. 2)

Remove the connector in the order starting with HM-CN1.

<3> Removal of VHMS Control (Fig. 1)

Remove the bolt (0101-80885) and the washer (01643-30823) from the VHMS controller (See the table below.) on the left side behind the cab and then remove the controller from the bracket.

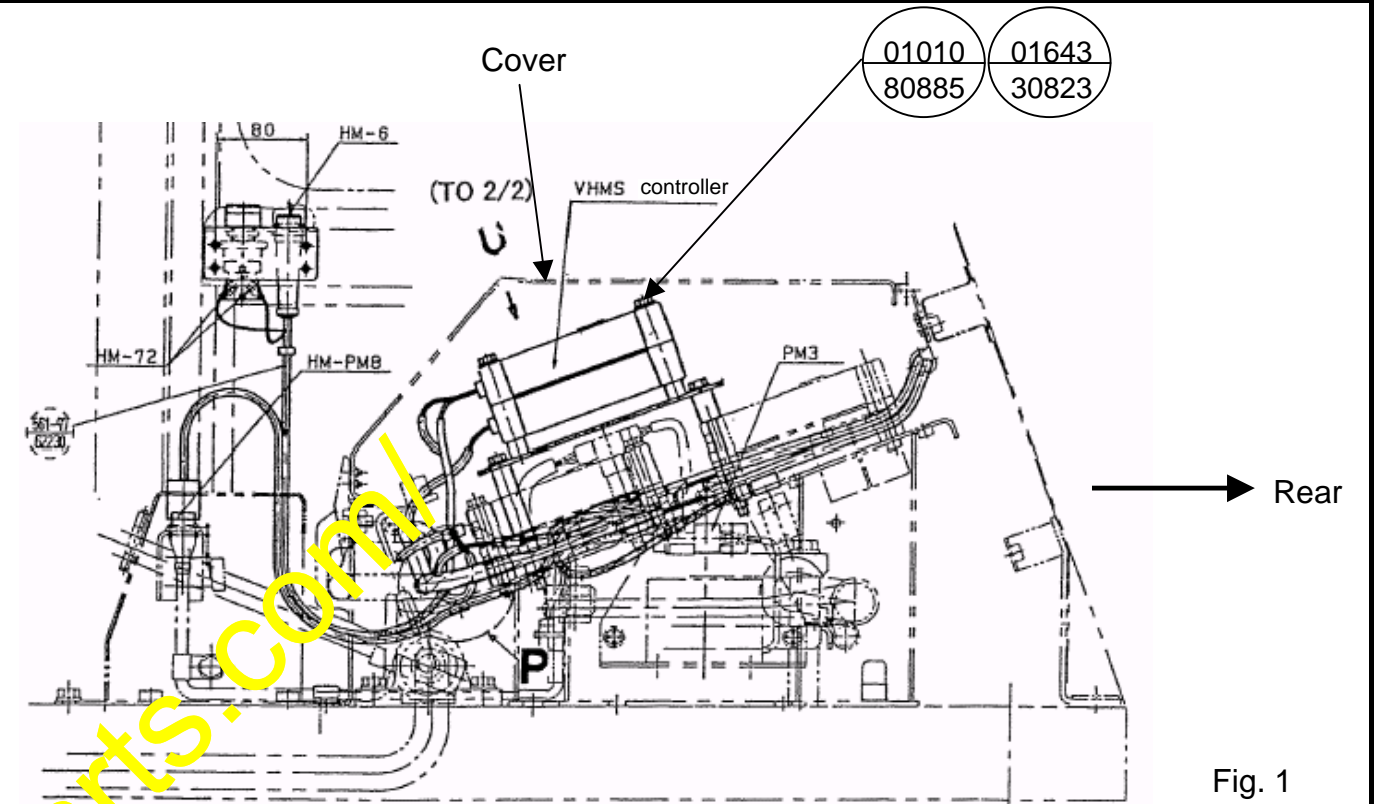


Fig. 1

Part number of VHMS controller to be replaced

Model	Part number
HD785-5	7826-10-5001
HD985-5	7826-10-5001
HD465-5	7826-10-8001
HD605-5	7826-10-8001

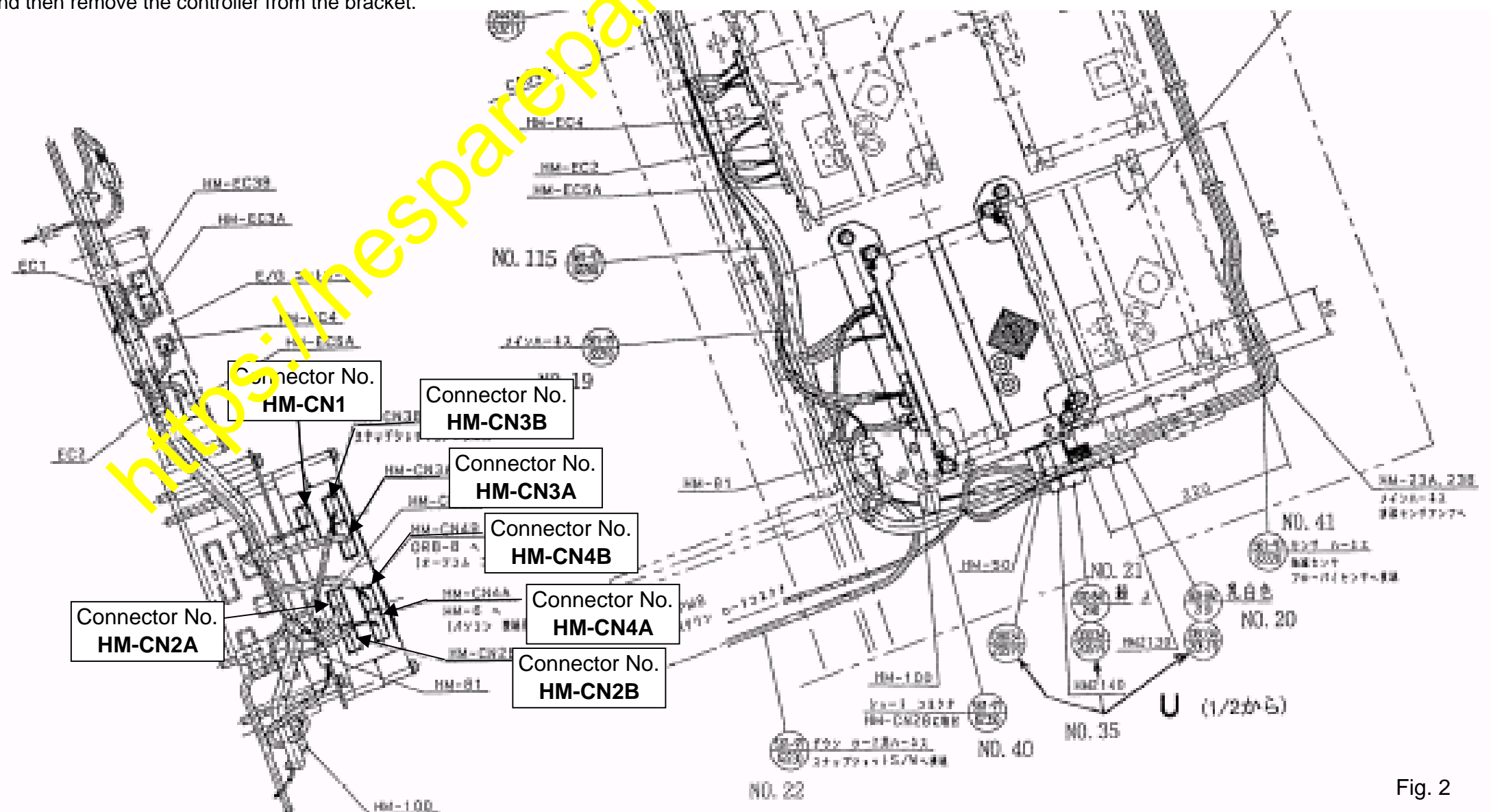


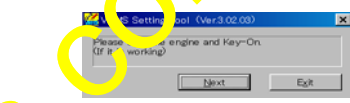
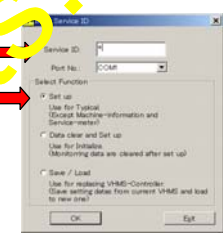
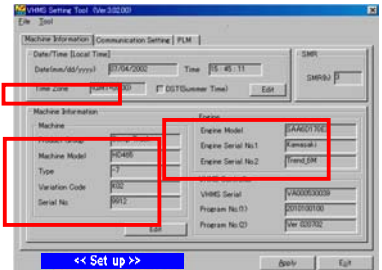
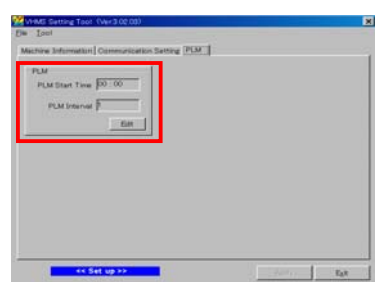
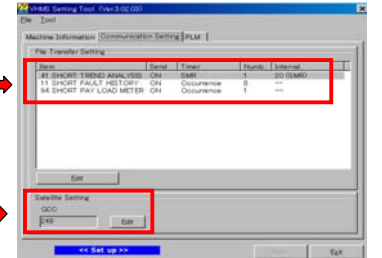




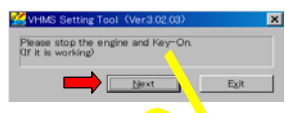
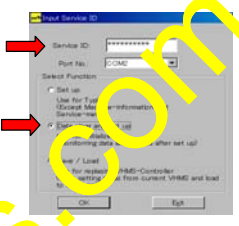
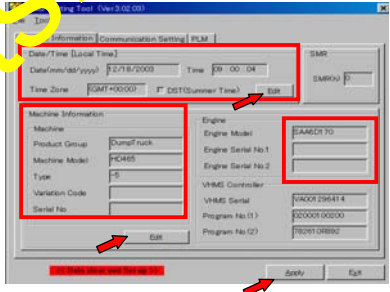
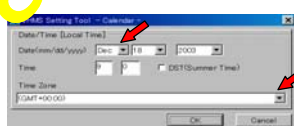
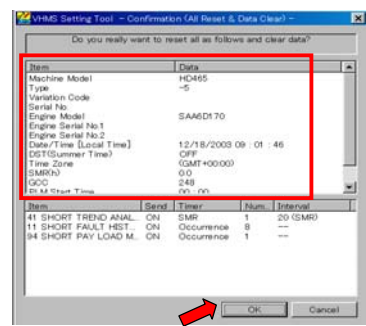
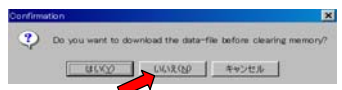
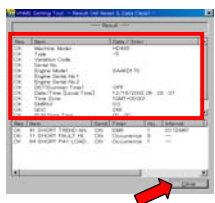
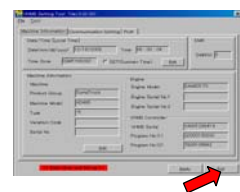


Fig. 2


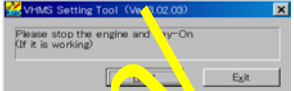
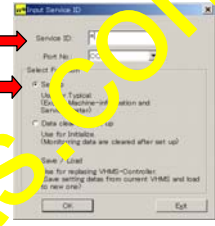
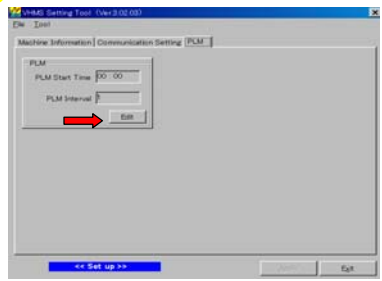
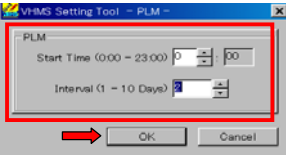
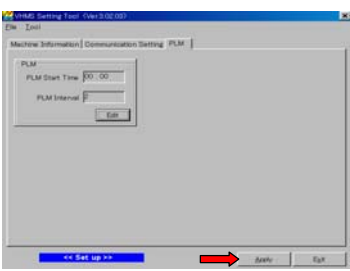
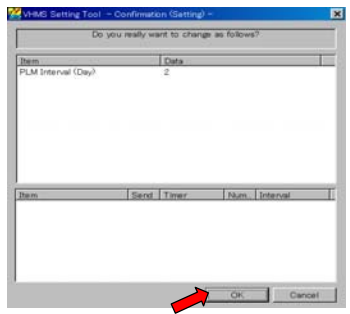
Timing	Work steps	Description
<p>Before starting the work,</p> <p>Turn OFF the starter switch</p> <p>↓</p> <p>Turn ON the starter switch</p> <p>↓</p> <p>Turn OFF the starter switch</p> <p>↓</p>	<p><b>&lt;1&gt; Connection of personal computer and VHMS Controller</b></p> <p><b>&lt;2&gt; Checking normal operation of the VHMS controller</b></p> <p><b>&lt;3&gt; Starting VHMS initial setting tool (VHMS technical tool box)</b>                      (Automatic updating of defined information)</p> <p><b>&lt;4&gt; VHMS controller Checking and recording setting contents</b></p> <p>Check the machine basic information set to the VHMS controller and record them in the Attachment III) Work check sheet (the column of present setting confirmation value).                      (The contents in the red frame shown on the right side)</p> <p><b>When PLM is mounted,</b>  <b>&lt;4&gt;-2 PLM (Payload meter) Checking and recording setting contents</b></p> <p><b>When Orbcomm is mounted,</b>  <b>&lt;4&gt;-3 Sent data (Orbcomm transmission) Checking and recording setting contents</b></p>	<p><b>* The setting work is carried out inside the cab.</b></p> <p><b>799-608-3220</b> Cable  <b>799-608-3211</b> setting program (VHMS technical analysis tool box)  <b>Portable personal computer</b></p> <p>Connect the cable (799-608-3220) to the download connector (VHMS) of the VHMS controller. And connect the other end to the RS232C terminal of the portable personal computer.</p>  <p>Check the "normal operation" in the 7-segment display window of the VHMS controller.          * The normal operation of the LED means that, after the starting switch is turned on, the LED blinks when the 7-segment is rotating and displays hexadecimal count-up. For the detail, refer to the Shop Manual.</p> <p>For the installing method of the VHMS initialization program, refer to the attached Program Handling Procedures.</p> <p>Start the personal computer and click the icon of "VHMS initial setting tool."</p>  <p>The message "Please stop the engine and Key-On." appears on the screen, and then click "Next"</p>  <p>After starting it, enter the ID (Service ID). Select "Set up" and click "OK"</p> <p><b>The ID is the part number of the VHMS controller. Note that the ID changes depending on model.</b></p>  <p>Click the machine ID tag, which is always shown as the default, and check the following contents:</p> <ol style="list-style-type: none"> <li>1) Checking model name, type and serial number.</li> <li>2) Checking engine type and its serial number.</li> <li>3) Checking transmission serial number                     <ul style="list-style-type: none"> <li>- Setting the transmission serial number to Engine Serial No. 2.</li> </ul> </li> <li>4) Checking time zone.</li> </ol>  <p><b>&lt;In case of vehicle equipped with PLM&gt;</b>          Click the PLM tag and check the following contents:</p> <ol style="list-style-type: none"> <li>1) Setting counting start time and counting unit (day).                     <ul style="list-style-type: none"> <li>- For the right example, it is set to start counting at 0:00 AM and to transmit the counted result of a day by satellite communication.</li> </ul> </li> </ol>  <p><b>&lt;In case of vehicle equipped with Orbcomm&gt;</b></p> <ol style="list-style-type: none"> <li>1) Checking sent data                     <ul style="list-style-type: none"> <li>Check data that can be sent. (The figure shows three data.)</li> <li>Short fault history (error code)</li> <li>Short trend analysis (trend data)</li> <li>Shot payload data (for PLM device)</li> </ul> </li> <li>2) Checking GCC code</li> </ol>  <p>After checking and recording, click "Exit" to end the operation.</p> <p>Checking 7-segment display in the VHMS controller inspection window.          - - After the starter switch is turned off, the display remains for several seconds. Make sure that the (saving) display disappears certainly.</p> <p><b>1) It is normal that, after the starter switch is turned off, the VHMS LED indicates SF or SH (the memory processing time) and goes out (the VHMS power supply is turned off).</b>  <b>2) When the power is turned off immediately after the starter switch is turned off, the firm power is not supplied.</b></p>

(Applicable vehicle model: HD785/985-5, HD465/605-5 dump trucks)

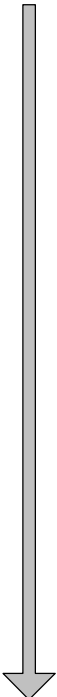
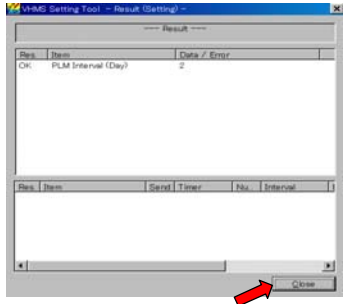
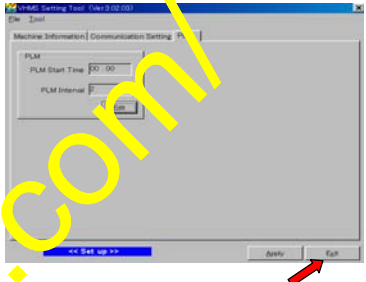
Timing	Work steps	Description
<p>Turn OFF the starter switch</p>  <p>Turn ON the starter switch</p> 	<p>&lt;1&gt; Connection of personal computer and VHMS controller</p> <p>&lt;2&gt; Checking normal operation of the VHMS controller</p> <p>&lt;3&gt; Starting the VHMS initial setting tool (VHMS technical tool box) (Automatic updating of defined information)</p> <p>&lt;4&gt; Setting VHMS controller and checking the setting contents</p> <p>Set what was recorded before replacing the old VHMS controller in the new VHMS controller. (Setting the contents in the red frame shown on the right side.)</p>	<p>Connect the cable (799-608-3220) to the download connector (VHMS) of the VHMS controller. And connect the other end to the RS232C terminal of the portable personal computer.</p>  <p>Check the "normal operation" in the 7-segment display window of the VHMS controller. * The normal operation of the LED means that, after the starting switch is turned on, the LED blinks when the 7-segment is rotating and displays hexadecimal count-up. For the detail, refer to the Shop Manual.</p> <p>For the installing method of the VHMS initialization program, refer to the attached Program Handling Procedures.</p> <p>Start the personal computer and click the icon of "VHMS initial setting tool."</p>  <p>The message "Please stop the engine and Key-On." appears on the screen, and then click "Next"</p>  <p>After starting it, enter the ID (Service ID). Select "Data clear and set up" and click "OK"</p> <p>The ID is the part number of the VHMS controller. Note that the ID changes depending on model.</p>  <p>The "Machine Info" screen (that is always shown as the default) appears, and the "Edit" button is clicked to set respective items.</p>  <p>1) Setting of Calendar -- Setting Current date, hour, minute and time zone</p> <p>2) Setting model name, etc. -- Setting Vehicle model name, type and serial number</p> <p>3) Setting of engine serial number</p> <p>4) Setting of transmission serial number -- Setting the transmission serial number to Engine Serial No.</p> <p>Click "OK" to show the pull-down for selection.</p>  <p>At the end click "OK" and click "Apply" to register the setting.</p> <p>When you click "Apply," the setting contents list will appear. If the contents are correct, click "OK"</p>  <p>Refer to the (Attachment III) Work check sheet to check if the contents in the red frame shown on the right side are correct.</p> <p>The screen asking you if you download the data will appear. Click "No"</p>  <p>"Data setting" will end, and the result will be displayed. When the data is correct, click "Close" and then click "Exit" to end the operation.</p>  

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(Applicable vehicle model: HD785/985-5, HD465/605-5 dump trucks)

Timing	Work steps	Description
<p>Turn OFF the starter switch</p>	<p><b>&lt;5&gt; Saving setting contents</b> Turning OFF the starter switch completes the saving operation to the VHMS controller.</p>	<p>Checking 7-segment display in the VHMS controller inspection window. -- After the starter switch is turned off, the display remains for several seconds. (saving operation) Make sure that the display disappears certainly.</p> <p><b>1) It is normal that, after the starter switch is turned off, the VHMS LED indicates SF or SH (the memory processing time) and goes out (the VHMS power supply is turned off).</b> <b>2) When the power is turned off immediately after the starter switch is turned off, the firm power is not supplied.</b></p>
<p><b>&lt;Implementation in case of vehicle equipped with PLM&gt;</b></p>		
<p>Turn ON the starter switch</p>	<p><b>&lt;6&gt; Checking normal operation of the VHMS controller</b></p>	<p>Check the normal operation on the LED (7-segment) display of the VHMS controller. * The normal operation of the LED means that, after "the starting switch is turned on," the LED blinks when the 7-segment is rotating and displays hexadecimal count-up. For the detail, refer to the Shop Manual.</p>
	<p><b>&lt;7&gt; Starting the VHMS initial setting tool (VHMS technical tool box)</b> (Automatic updating of defined information)</p>	<p>For the installing method of the VHMS initialization program, refer to the attached Program Handling Procedures.</p> <p>Start the personal computer and click the icon of "VHMS Initial Setting Tool."</p>  <p>The message "Please stop the engine and Key-On. (If it is working)" appears on the screen, and then click "Next"</p> 
	<p><b>&lt;8&gt; PLM (Payload meter) Setting and confirming setting contents</b></p>	<p>After starting it, enter the ID (Service ID). Select "Set up" and click "OK"</p>  <p>The ID is the part number of the VHMS controller. Note that the ID changes depending on model.</p> <p>Note that this program does not start unless the VHMS controller and the personal computer are connected.</p>
		<p>Click the "PLM" tag and then click the "Edit" button.</p> 
		<p>Click "▼" to show the pull-down for selection.</p> <p>1) Setting counting start time and counting unit (day). -- For the right example, it is set to start counting at 0:00 AM and to transmit the counted result of 2 days by satellite communication.</p>  <p>After completing the setting, make sure that the time display on the payload meter matches the one set on the VHMS.</p>
		<p>At the end click "OK" and click "Apply" to register the setting.</p> 
		<p>When you click "Apply," the setting contents list will appear. If the contents are correct, click "OK"</p> <p>Refer to the (Attachment III) Work check sheet to check if the contents in the red frame shown on the right side are correct.</p> 

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Timing	Work steps	Description
<div style="text-align: center;">  <p><b>Turn OFF the starter switch</b></p> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p><b>&lt;9&gt; Saving setting contents</b></p> <p>Turning OFF the starter switch completes the saving operation to the VHMS controller.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p><b>Completion of VHMS replacement work and contact to KOMATSU</b></p> </div>	<p>The "Result" of the setting will appear. Check the "OK" mark, and if it is correct, click "Close"</p>  <p>Also, click "Exit" to end the operation.</p>  <p>Checking 7-segment display in the VHMS controller inspection window.          -- After the starter switch is turned off, the display remains for several seconds. Make sure that the (saving) display disappears certainly.</p> <div style="border: 1px solid red; padding: 5px; margin-bottom: 10px;"> <p>1) It is normal that, after the starter switch is turned off, the VHMS LED indicates SF or SH (the memory processing time) and goes out (the VHMS power supply is turned off).              2) When the power is turned off immediately after the starter switch is turned off, the firm power is not supplied.</p> </div> <p>Now, the setting of VHMS will come to the end.          In addition to the notification of the work completion, dispatch the following data to the address below:</p> <ol style="list-style-type: none"> <li>1) Fax II) VHMS (Replacement) work check sheet.</li> <li>2) Send the downloaded VHMS data by Notes or email.</li> </ol> <p><b>VHMS WebCARE Support Center</b>          (Service Product Development Group, Parts and Service Control Section, KOMATSU Head Office)          Telephone: 81-3-5561-2765          Fax: 81-3-5561-4766          Email address: webcare@komatsu.co.jp</p>

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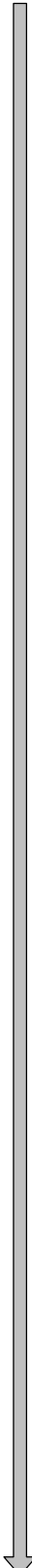



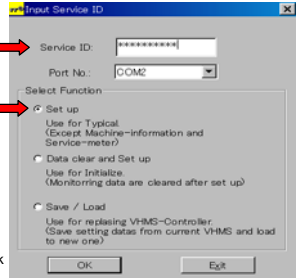
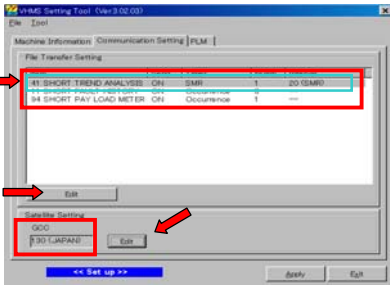
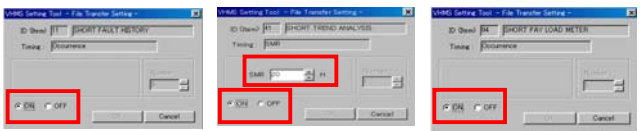
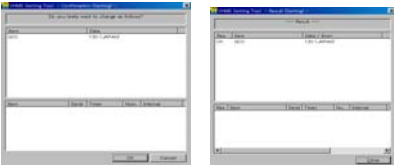
**III) VHMS work procedure check sheet  
(When replacing)**  
(HD785/985-5, HD465/605-5 dump trucks)

Setting date:	Date:
Date of fax transmission:	Date:
DB/branch name:	
Name of person in charge:	

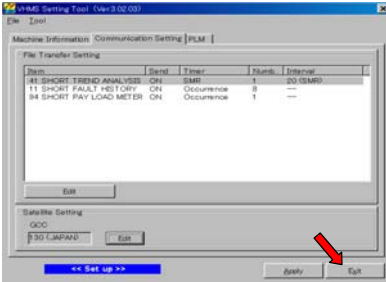
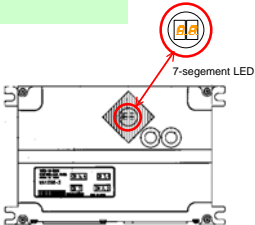
Setting steps	Check items	Present setting confirmation value		Result (after replacement)	
		yes	no	yes	no
<1> Connection of personal computer and VHMS controller	Are they connected securely?	/		yes	no
<2> Checking normal operation of the VHMS controller	Is it operating normally? (Display of hexadecimal count-up after rotation)	/		yes	no
<3> Starting the VHMS initial setting tool	Setting tool mode	/		/	
	Is "Set up" selected at the time of confirmation? Is the mode "Data Clear and Set up" selected at the time of setting?	yes	no	yes	no
<b>&lt;4&gt; Setting of the VHMS controller</b> <4>-1 Checking machine information <4>-2 Setting machine information  Here, machine basic information for the VHMS controller is checked and set to the controller.  When PLM is mounted, →	Is the today's date set to Date (mm/dd/yy) [month/day/year]?	/		yes	no
	Is the present time set to Time [Watch]?	/		yes	no
	Is Time Zone (GMT+(****)) input correctly?	/		yes	no
	Is Product Group correct?	/		yes	no
	Is Machine Model the same as the body?	/		yes	no
	Is Type the same as the body?	/		yes	no
	Is Serial No. input correctly?	/		yes	no
	Is Engine Model correct?	/		yes	no
	Did you input Engine Serial No. 1 correctly?	/		yes	no
	Did you input Engine Serial No. 2 (transmission Serial No.) correctly?	/		yes	no
Did you set PLM correctly? (start time, Interval)	/		yes	no	
<5> Checking of setting contents	Are Setting Contents correct?	/		yes	no
<6> Saving setting contents	Did LED (7-segment) disappear after the saving operation?	/		yes	no
<7> Checking VHMS function (operation)	Did LED operate normally?	/		yes	no

**Mailing address:** VHMS WebCARE Support Center  
 (Service Product Development Group, Parts and Service Control Section, KOMATSU Head Office)  
 Telephone: 81-3-5561-2765  
 Fax: 81-3-5561-4766  
 Email address: webcare@komatsu.co.jp

https://mesoparts.com

Timing	Work steps	Description														
<p>Before starting the work,</p> <p>Turn OFF the starter switch</p>  <p>Turn ON the starter switch</p> 	<p>• Prepare necessary tools and check sheets.</p> <div data-bbox="336 376 699 472"> <p>&lt;1&gt; Connection of personal computer and VHMS controller</p> </div> <div data-bbox="336 510 699 607"> <p>&lt;2&gt; Checking normal operation of the VHMS controller</p> </div> <div data-bbox="336 645 699 965"> <p>&lt;3&gt; Starting VHMS initial setting tool (VHMS technical tool box)</p> <p>Automatic updating of defined information</p>  </div> <div data-bbox="336 987 699 2139"> <p>&lt;4&gt; Initial setting of the VHMS controller</p> <p>&lt;4&gt;-1 Setting for communication</p> <p>Here, VHMS data to be sent by satellite communication is selected and the communication frequency is set.</p> </div>	<p><b>799-608-3220</b> Cable</p> <p><b>799-608-3211</b> Setting program (VHMS technical analysis tool box)</p> <p><b>Portable personal computer</b> (Install the "VHMS technical analysis tool box" to the personal computer in advance.)</p> <p>Connect the cable (799-608-3220) to the download connector of the VHMS controller. And connect the other end to the RS232C terminal of the portable personal computer.</p>  <p>Check the *normal operation in the 7-segment display window of the VHMS controller. * The normal operation of the LED means that, after the starting switch is turned on, the LED blinks when the 7-segment is rotating and displays hexadecimal count-up. For the detail, refer to the Shop Manual.</p> <p>For the installing method of the VHMS initialization program, refer to the attached program handling procedures.</p> <p>Start the personal computer and click the icon of "VHMS initial setting tool."</p> <p>The message "Please stop the engine and Key-On." appears on the screen, and then click "Next"</p>  <p>After starting it, enter the ID (Service ID). Select "Set up" and click "OK"</p> <p>The ID is the part number of the VHMS controller (hyphen is included). Note that the ID changes depending on model.</p>  <p>Click the "Communication setting" tag. Click the data that can be sent and is displayed on the screen, and click the "Edit" button.</p> <p>1) Selecting data to be sent There are three kinds of data that can be sent. Here, the necessity of satellite communication and change of frequency are set.</p>  <p>Short fault history (error code) Short trend analysis (trend data) Shot payload data (for PLM device)</p>  <p>2) GCC code Click "Edit" and select the relevant GCC code. (In case of Japan: 130) Click "▼" to show the pull-down and select a relevant area (nation).</p> <table border="1" data-bbox="1177 1760 1358 1921"> <thead> <tr> <th>GCC code</th> <th>Area (Nation)</th> </tr> </thead> <tbody> <tr><td>1</td><td>USA</td></tr> <tr><td>120</td><td>ITALY</td></tr> <tr><td>121</td><td>MALAYSIA</td></tr> <tr><td>122</td><td>KOREA</td></tr> <tr><td>123</td><td>BRAZIL</td></tr> <tr><td>130</td><td>JAPAN</td></tr> </tbody> </table> <p>To register the setting, click "Apply"</p> <p>The change confirmation screen will appear. When it is correct, click "OK"</p>  <p>The "Result" of the setting will appear. Check the "OK" mark, and if it is correct, click "Close"</p>	GCC code	Area (Nation)	1	USA	120	ITALY	121	MALAYSIA	122	KOREA	123	BRAZIL	130	JAPAN
GCC code	Area (Nation)															
1	USA															
120	ITALY															
121	MALAYSIA															
122	KOREA															
123	BRAZIL															
130	JAPAN															

https://thespareparts.com

Timing	Work steps	Description
<p>Turn OFF the starter switch</p>		<p>Also, click "Exit" to end the operation.</p> 
<p>Turn ON the starter switch</p>	<p><b>&lt;5&gt; Saving setting contents</b></p> <p>Turning OFF the starter switch completes the saving operation to the VHMS controller.</p>	<p>Checking 7-segment display in the VHMS controller inspection window.</p> <p>-- After the starter switch is turned off, the display remains for several seconds. (saving operation) Make sure that the display disappears certainly.</p> <p><b>1) It is normal that, after the starter switch is turned off, the VHMS LED indicates SF or SH (the memory processing time) and goes out (the VHMS power supply is turned off).</b></p> <p><b>2) When the power is turned off immediately after the starter switch is turned off, the firm power is not supplied.</b></p>
<p>Turn OFF the starter switch</p>	<p><b>&lt;6&gt; Checking Orbcomm controller</b></p>	<p>After replacing the VHMS controller, check the dot (decimal point) lighting status on the right lower part of the VHMS controller LED shown in the figure below:</p> <ul style="list-style-type: none"> <li>OFF Communication with Orbcomm terminal is not possible.</li> <li>ON Orbcomm terminal and communication satellite have not been caught. (No transmission is possible.)</li> <li>Short blinks Send data is not available at the terminal but the satellite is caught. (Transmission is possible but no data is available.)</li> <li>Long blinks Send data is available at the terminal but the satellite is caught. (Data is being transmitted.)</li> </ul> <p>Also, the confirmation is possible via the lighting status of the LED on the right side of the Orbcomm terminal (Part No. 7826-12-1100 in Japan or 7826-12-1100 overseas). (Since it is difficult to check the Orbcomm LED, be careful to check it.)</p> <p>* The Orbcomm controller receives firm power supply from battery.</p> <ul style="list-style-type: none"> <li>Off No power is supplied to the Orbcomm terminal.</li> <li>ON The satellite has not been caught yet. (Transmission is not possible.)</li> <li>Short blinks Send data is not available at the terminal but the satellite is caught. (Transmission is possible but no data is available.)</li> <li>Long blinks Send data is available at the terminal but the satellite is caught. (Data is being transmitted.)</li> </ul> 
<p>After returning to the office,</p>	<p><b>Completion of Orbcomm setting work and contact to KOMATSU</b></p> <p><b>WebCARE</b></p> <p>Now, you have completed the work. Check the data at WebCARE. <a href="http://webcare.komatsu.co.jp">http://webcare.komatsu.co.jp</a></p>	<p>Now, you have completed the setting to Orbcomm (satellite communication). See the check sheet to the following address: After the setting starts, data is periodically transmitted to WebCARE. To check transmission status, Check 1. the first trend data after 20 hours (SMR) or 2. the time of error occurrence (any time) at WebCARE.</p> <p><b>VHMS/WebCARE Support Team</b> (in KOMATSU Parts and Service Control Section) Telephone: 81-3-5561-2765 Fax: 81-3-5561-4766 Email address: <a href="mailto:webcare@komatsu.co.jp">webcare@komatsu.co.jp</a></p>

If you have any question, refer to the Instruction Manual (Operation Procedures) of VHMS setting tools (Part No. 799-608-3211).

**V) Orbcomm initial setting work check sheet**  
**Vehicle equipped with Orbcomm**

Setting date:	Date:
Date of fax transmission:	Date:
DB/branch name:	
Name of person in charge:	

(Applicable vehicle model: HD785/985-5, HD465/605-5 dump trucks)

Setting steps	Check items	Result
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Checking machine and component name plates	Model Name	
	Serial number	
	Service meter reading	
	Engine serial number	
	Transmission serial number	
	VHMS Controller S/No.	
	Orbcomm Controller S/No.	

<1> Connection of personal computer and VHMS controller	Are they connected securely?	yes	no
---	------------------------------	-----	----

<2> Checking normal operation of the VHMS controller	Is it operating normally? (Display of hexadecimal count-up after re-ignition)	yes	no
--	--	-----	----

<3> Starting the VHMS initial setting tool	Is "Set up" selected for the setting tool mode?	yes	no
--	---	-----	----

<4> Initial setting of the VHMS controller <4>-2 Setting for communication  Here, VHMS data to be sent by satellite communication is selected and the communication frequency is set.	Enter the set value of the S-Fault History. Existence of communication Number (8 is set as the default.)	On	Off
	Number		
	Enter the set value of S-Trend Analysis. Existence of communication Interval (2h is set as the default.)	On	Off
	Hrs		
	Enter the set value of Shot Payload Data (when the PLM is mounted). Existence of communication Counting start time Counting interval (days)	On	Off
	day		
Did you set the GCC code? (130 in Japan)	yes	no	

<5> VHMS Saving Operation	Did LED (7-segment) disappear?	yes	no
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<6> Checking Orbcomm controller	Is the (green) LED on?	yes	no
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Mailing address: <b>VHMS/WebCARE Support Team</b> (in KOMATSU Parts and Service Control Section)	<b>WebCARE</b>
Telephone: 81-3-5561-2765 Fax: 81-3-5561-4766	
E-mail address: <a href="mailto:webcare@komatsu.co.jp">webcare@komatsu.co.jp</a>	

