CEAM030103

Operation & Maintenance Manual

980E-4

DUMP TRUCK

SERIAL NUMBERS 980E-4 A40003 – A40051

ENGINE 18V170

March 2017

KOMATSU®

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This operation should only be performed in special circumstances. For instance, if the truck was driven without the body installed, the payload meter may record a very low empty sprung weight value. In this case, after the body is installed, the payload meter may mistakenly conclude that the weight of the body alone constitutes a load, and refuse to return the truck to the empty (Tare Zone) condition. In unusual conditions such as this, the Clean Truck Tare option will allow the user to override the measured empty sprung weight value with a default value and force the truck back to the empty (Tare Zone) condition.

From PLM IV home page, select Field Software Update link to reprogram payload meter firmware.

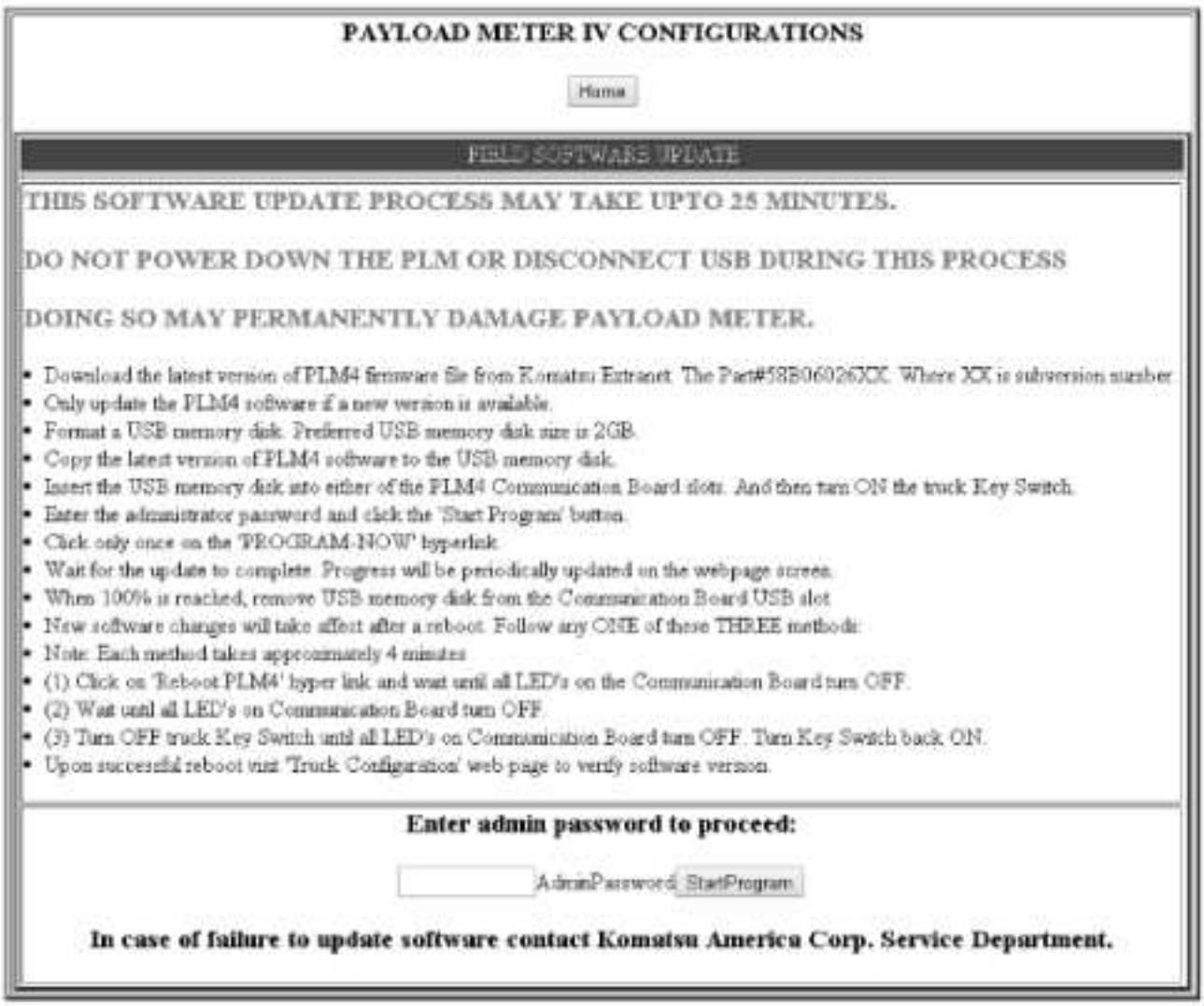


Figure 5-36 FIELD SOFTWARE UPDATE

NOTE: *The process might take up to 25 minutes.*

NOTE: *Do not power down or disconnect the USB memory disk during the software process.*

NOTE: *Doing so may result in permanent damage to payload meter IV.*

1. Download the latest version of the payload meter firmware from the Komatsu Extranet.
2. Unzip the 58B060260xx.zip file.

NOTE: *The firmware file name will be the software part number. For example 58B0602604.S19 is the latest version of the software available in Extranet where 04 is sub version number.*

NOTE: *Do not modify the file name or edit the file contents.*

3. Format a 2GB USB memory disk and copy the 58B06026XX.S19 file on to it.

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A ground level engine stop switch is also located at the right or left front corner of the truck, depending on ladder access.

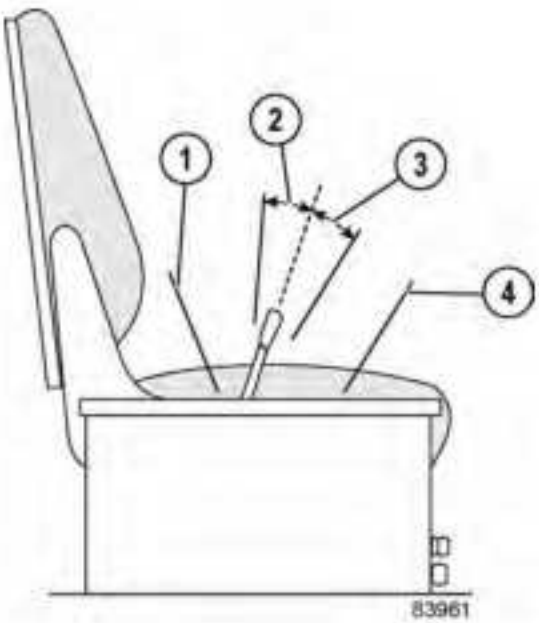
Window Control Switches

The window control switch (5, 6) controls the operation of the window. The switch is spring-loaded to the OFF position.

- Pushing the front of the switch raises the cab window.
- Pushing the rear of the switch lowers the window.

Hoist Control Lever

Hoist control lever (7) is a four position hand-operated lever located between the operator seat and the center console (see Figure 6-4 HOIST CONTROL, page 6-8).



1. Raise
2. Hold
3. Float
4. Lower

Figure 6-4 HOIST CONTROL

Raising The Dump Body

1. Pull the hoist control lever to the rear to actuate hoist circuit. (Releasing the lever anywhere during "hoist up" will place the body in HOLD at that position.)
2. Raise engine rpm to increase hoist speed.
3. Reduce engine rpm as the last stage of the hoist cylinders begin to extend and then let the engine go to low idle as the last stage reaches half-extension.
4. Release hoist control lever as the last stage reaches full extension.
5. After material being dumped clears the body, lower the body to frame.

   Refer to Dumping, page 5-15 for more complete details concerning this control.

Lowering The Dump Body

Move hoist control lever forward to DOWN position and release. Releasing the lever places hoist control valve in the FLOAT position allowing the body to return to frame.

Retard Speed Control (RSC) Adjust Dial

The retard speed setting will be displayed to the operator on the digital display in the instrument panel.

Retard speed control (RSC) adjust dial (8, Figure 6-3 CENTER CONSOLE, page 6-7 allows the operator to vary the downhill truck speed that the retard speed control system will maintain when descending a grade. This function can be overridden by either the accelerator or retard pedal.

When the dial is rotated counterclockwise toward this symbol, the truck will descend a grade at lower speeds.



When the dial is rotated clockwise toward this symbol, the truck speed will increase.



Always refer to the Grade/Speed Chart in the operator's cab and follow the recommendations for truck operation. DO NOT exceed these recommended MAXIMUM speeds when descending grades with a loaded truck.

Throttle pedal position will override RSC setting. If operator depresses throttle pedal to increase truck speed, dynamic retarding will not come on unless truck over speed setting is reached or the brake/retarder pedal (or retarder lever) is used. When throttle pedal is released and RSC switch is on, dynamic retarding will come on at, or above, the RSC dialed speed and will adjust truck speed to, and maintain, the dialed speed. The dialed speed will be displayed on the digital display in the instrument panel.

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EVERY 1000 HOURS LUBRICATION AND MAINTENANCE F.34-0000051631

NOTE: *Maintenance for every 10, 250, & 500 hour Lubrication and Maintenance Checks must also be performed at this time. "Lube Key" references are to the lubrication chart.*

EVERY 1000 HOURS LUBRICATION AND MAINTENANCE	
Item	**Task**
HYDRAULIC SYSTEM	• Drain the hydraulic tank and clean the inlet strainer. • Refill the tank with new oil. (Lube Key "B"). ***NOTE:*** *Oil change interval can be extended to 2,500 hours if oil is sampled at every 250 hour intervals and no abnormalities are detected.*
COOLING SYSTEM	• Clean the cooling system with a quality cleaning agent. • Flush the system with water. • Refill the system with anti-freeze and water solution. • Check the Coolant Specifications, page 7-4 in this chapter.
FUEL SYSTEM	Service the fuel tank breather. Refer to FUEL SYSTEM SERVICE, page 7-6 for more detailed instructions.
OPERATOR'S SEAT	Apply grease to the slide rails. (Lube Key "D").
AUTOMATIC BRAKE APPLICATION	Ensure the brakes are automatically applied when brake pressure decreases below the specified limit. Refer to the Shop Manual for more details.
AUTOMATIC LUBE SYSTEM	Check pump housing oil level using the dipstick on top of the pump unit. If necessary, add SAE 10W-30 motor oil.
RETRACTABLE LADDER SYSTEM (If Equipped)	• Add grease to each bearing grease fitting. Ensure that each bearing is receiving grease. • Add grease to the cylinder.
ELIMINATOR FILTER (If Equipped)	• Clean and check centrifuge. Refer to engine manufacturer's Operation & Maintenance Manual. (Service interval is dependent on duty cycle, oil quality, etc.)
BRAKE DISC	Use the front and rear brake wear indicators included in the truck's tool group to check for brake disc wear. Refer to the shop manual for instructions.

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NOTE: *Some of the configuration parameters require a password to change. The password for all parameters except the Payload Gain is "**Kac2300**". This is case sensitive. The password for the payload gain, which is a critical setting, is not included in this document.*

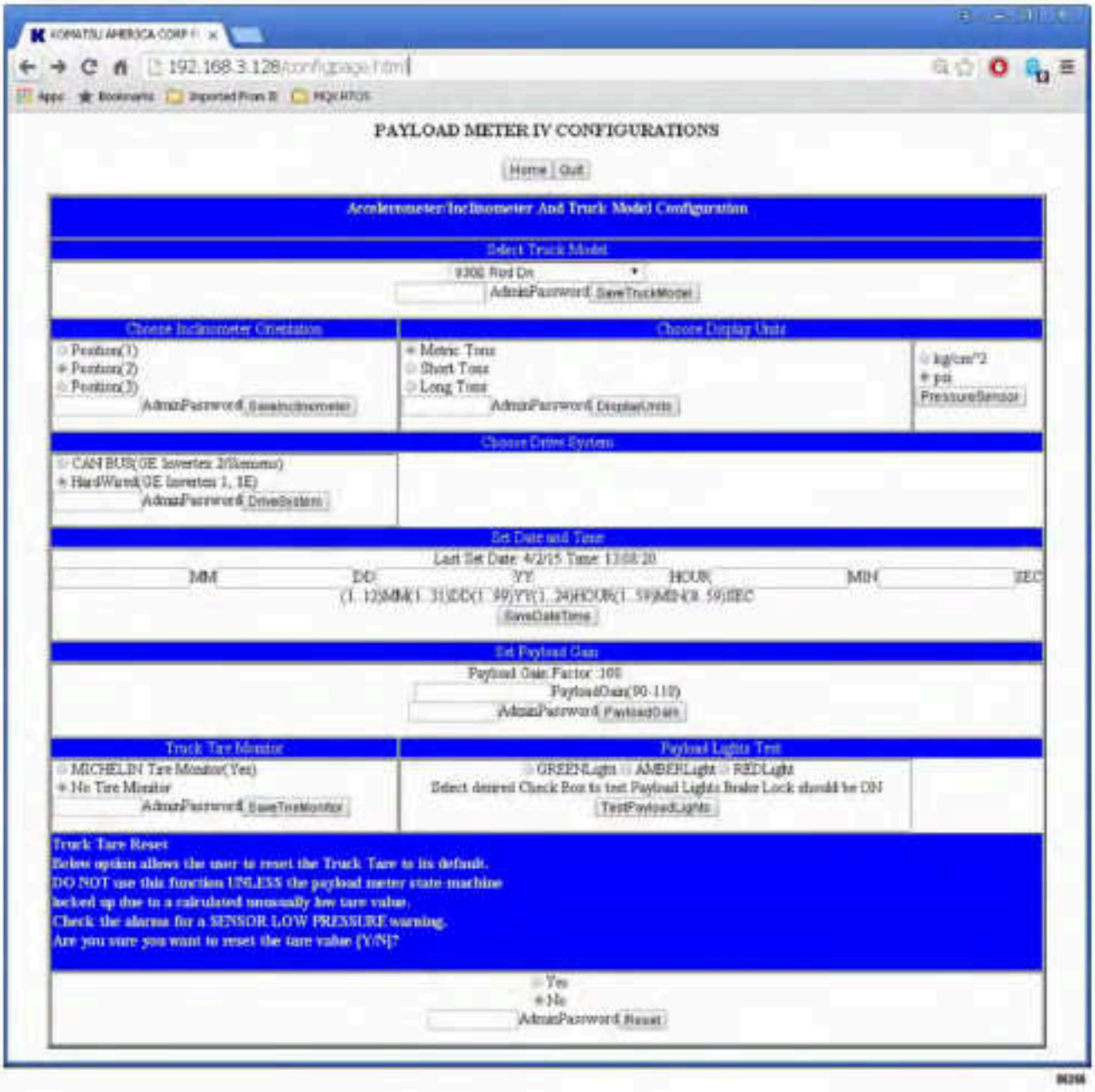
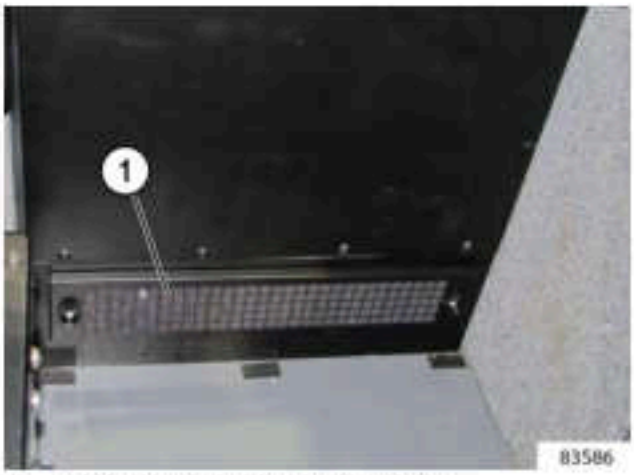


Figure 5-20 PAYLOAD METER IV CONFIGURATIONS

There are ten configuration parameters on this page. Below is a description of each.

- Truck Model
- PLM IV Mounting Orientation
- Gauge Display Units
- Pressure Sensor Units (for RTD web page only)
- Date and Time
- Payload Gain Factor
- Payload Light Test
- Truck Tare Reset

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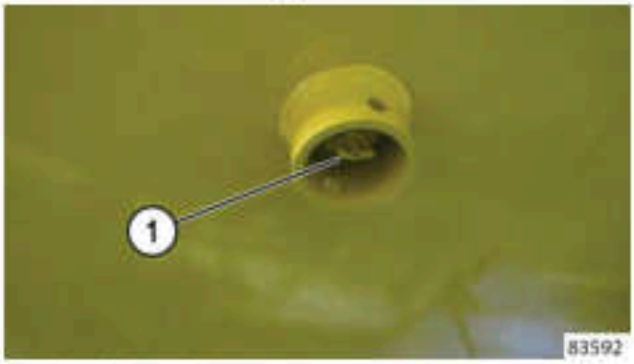
1. HVAC Recirculation Filter Element

Figure 7-8 HVAC RECIRCULATION FILTER LOCATION

1. Clean both filter elements (1, Figure 7-7 CAB AIR FILTER LOCATION, page 7-5 and Figure 7-8 HVAC RECIRCULATION FILTER LOCATION, page 7-6) with mild soap and water.
2. Rinse completely clean and air dry with a maximum of 275 kPa (40 psi).
3. Reinstall the filters.

FUEL SYSTEM SERVICE G.60-0000051601

Fuel Tank Cleaning

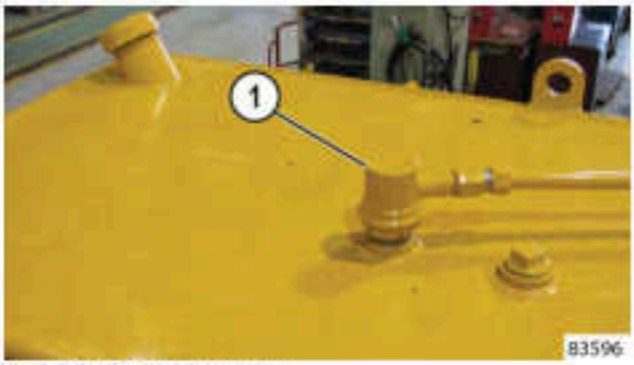


1. Fuel Tank Drain

Figure 7-9 FUEL TANK

Open fuel tank drain (1, Figure 7-9 FUEL TANK, page 7-6) to drain water and sediment from the fuel tank. The fuel tank is provided with a drain and a cleaning port in the side that allows steam or solvent to be utilized in cleaning tanks that have accumulated foreign material.

It is not necessary to remove the tank from the truck for cleaning of sediment, however rust and scale on the walls and baffles may require complete tank removal. Prior to a cleaning procedure of this type, all vents, fuel gauge, and hose connections should be removed and temporarily sealed. After all scale, rust, and foreign material has been removed, the temporary plugs can be removed. A small amount of light oil must be sprayed into the tank to prevent rust if the tank is to remain out of service. All openings should be sealed for rust prevention.

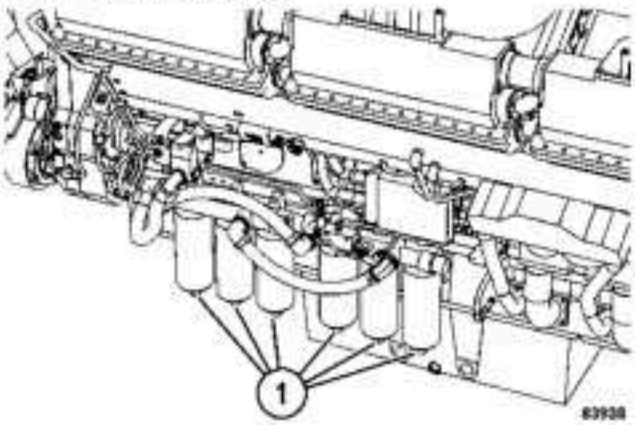


1. Fuel Tank Breather

Figure 7-10 FUEL TANK BREATHER

Remove breather (1, Figure 7-10 FUEL TANK BREATHER, page 7-6) and clean in solvent. Dry with pressurized air and reinstall.

Fuel Filter Service



1. Water Drain Valves

Figure 7-11 WATER SEPARATOR DRAIN

Open water drain valves (1, Figure 7-11 WATER SEPARATOR DRAIN, page 7-6) to remove water from the fuel/water separators daily.

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