CEBM015700

Shop Manual

930E-3

DUMP TRUCK

SERIAL NUMBERS **A30364 - A30461**

KOMATSU®

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SECTION A

GENERAL INFORMATION

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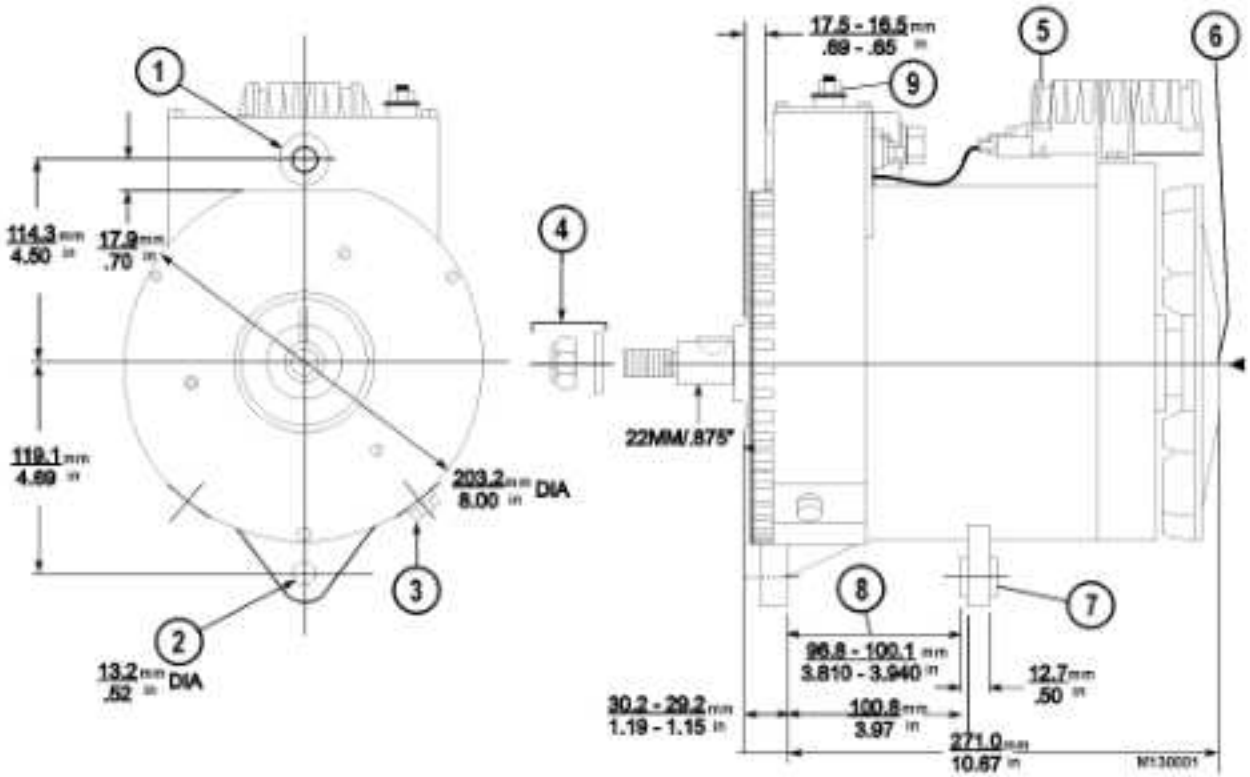
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ALTERNATOR OVERHAUL



ALTERNATOR DIMENSIONS

1. Mounting Bolt - 1/2 UNC
2. Mounting Bolt - 12/50 Dia; **65 ft.lbs. (88 N.m)** torque
3. Ground Bolt, 3/8 - 16; **11 ft.lbs. (15 N.m)** torque
   Either Side; R.H. side shown
4. Locknut (5/16 - 18 UNF-2B) & Washer (to secure Pulley)
6. Fan Nut; **50 ft.lbs. (68 N.m)** torque
7. Slip Bushing
8. Allowable Mounting Bracket Dimensional Span
9. F+ Stud (NOTE: F+ Stud Not On All Models)

FASTENER DESCRIPTION	TORQUE SPECIFICATIONS	
	SAE	METRIC
Pulley Nut	120 ft. lbs	163 Nm
Heat Sink, Cover Plate, Control Box Hold Down & Relay Terminal Screw	20 in. lbs.	2 Nm
Phase Terminal Screw	20 in. lbs.	2 Nm
Ground Bolt	11 ft. lbs.	15 Nm
Front & Rear Housing Hold Down Nut	18 in. lbs.	2 Nm
Tension Adjust Bolt	18 ft. lbs.	24 Nm
Rotor Hold Down Screws	45 ft. lbs.	61 Nm
Output Lead Bolt	11 ft. lbs.	15 Nm
Output Nut	20 - 22 ft. lbs.	27 - 30 Nm
Energize Terminal Nut	60 - 70 in. lbs.	7 - 8 Nm
Regulator Hold Down Screw (for taptite screws)	32 in. lbs. 45 in. lbs.	4 Nm 5 Nm
Fan Nut	50 ft. lbs.	68 Nm
Field Coil Screw	9 in. lbs.	1 Nm

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Table 3: Chassis Fault Codes (continued)					
VHMS Fault Code	VHMS Fault Description	Source	Sent via OrbComm	Snapshot Trigger	Model Notes
#A101	Hydraulic Oil Filter Differential Pressure High	IM			All
#A103	Hydraulic Tank Temp - Sensor Low	IM			830E
#A104	Hydraulic Tank Temp - Sensor High	IM			830E
#A107	Propel System Caution	IM/GE	X		930E
#A108	Propel System Temp Caution	IM/GE	X		930E
#A109	Propel System Reduced Level	IM/GE	X		930E
#A115	Low Steering Precharge	IM	X		All
#A123	Reduced Retard Level	IM/GE			930E
#A124	No Propel / Retard	IM/GE	X		930E
#A125	No Propel	IM/GE	X		930E
#A126	Hydraulic Tank Level Low	IM	X		All
#A127	IM Sensor +5V Low	IM	X		All
#A128	IM Sensor +5V High	IM	X		All
#A145	Brake Cooling RPM advance	IM			930E
#A146	Brake Cooling RPM advance	IM			930E
#A166	Hydraulic Oil Temp - LR Sensor Low	IM			930E
#A167	Hydraulic Oil Temp - RR Sensor Low	IM			930E
#A168	Hydraulic Oil Temp - LF Sensor Low	IM			930E
#A169	Hydraulic Oil Temp - RF Sensor Low	IM			930E
#A170	Hydraulic Oil Temp - LR Sensor High	IM			930E
#A171	Hydraulic Oil Temp - RR Sensor High	IM			930E
#A172	Hydraulic Oil Temp - LF Sensor High	IM			930E
#A173	Hydraulic Oil Temp - RF Sensor High	IM			930E
#A190	Auto Lube Pressure Warning	IM	X		All
#A193	High Hydraulic Tank Oil Temp	IM	X	X	830E
#A194	High FL Brake Oil Temp	IM	X	X	930E
#A195	High FR Brake Oil Temp	IM	X	X	930E
#A196	High RL Brake Oil Temp	IM	X	X	930E
#A197	High RR Brake Oil Temp	IM	X	X	930E

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SYMBOLS USED IN SCHEMATICS

- TERMINAL POINT ON THE REAR CAB PANEL
- TERMINAL POINT IN THE COMPONENTS BASE BOX
- TERMINAL IN THE LOWER INSTRUMENT PANEL AREA
- TERMINAL POINT IN THE UPPER INSTRUMENT PANEL AREA
- TERMINAL POINT IN HYDRAULIC COMPONENTS CABINET
- TERMINAL POINT IN FRAME AREA
- CONNECTION POINT (GENERAL ELECTRICAL)
- CONNECTION POINT (BUTT SPLICE)
- CONNECTION POINT (CIRCUIT BOARD TRACE JOINT)
- KNIFE DISCONNECT OR BULLET TERMINAL
- GENERAL GROUND
- FRAME GROUND
- WIRING
- SHIELDED WIRE (TWISTED AND UNTWISTED)
- CONNECTION, INLINE (X IS CAVITY IDENTIFIER)
- CONNECTION, BULKHEAD (IE-CONTROLLER) (X IS CAVITY IDENTIFIER)
- MOTOR
- MAGNETIC PICKUP
- PROXIMITY SWITCH
- SINGLE ELEMENT LAMP
- DUAL ELEMENT LAMP
- HORN, BUZZER, OR SPEAKER
- TEMPERATURE SENSOR
- LED (LIGHT EMITTING DIODE)
- PRESSURE SWITCH - PRESSURE TO OPEN
- PRESSURE SWITCH - PRESSURE TO CLOSE
- TOGGLE SWITCH
- ROTARY SWITCH
- PUSHBUTTON SWITCH - NORMALLY CLOSED
- CIRCUIT BREAKER - MANUAL RESET
- PRESSURE OPERATED VARIABLE RESISTOR
- TEMPERATURE SWITCH - INCREASE TEMPERATURE TO OPEN
- TEMPERATURE SWITCH - DECREASE TEMPERATURE TO OPEN
- TEMPERATURE OPERATED VARIABLE RESISTOR
- LIMIT SWITCH - CAM TO CLOSE
- LIMIT SWITCH - CAM TO OPEN
- DIODE
- ZENER DIODE
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- BATTERY

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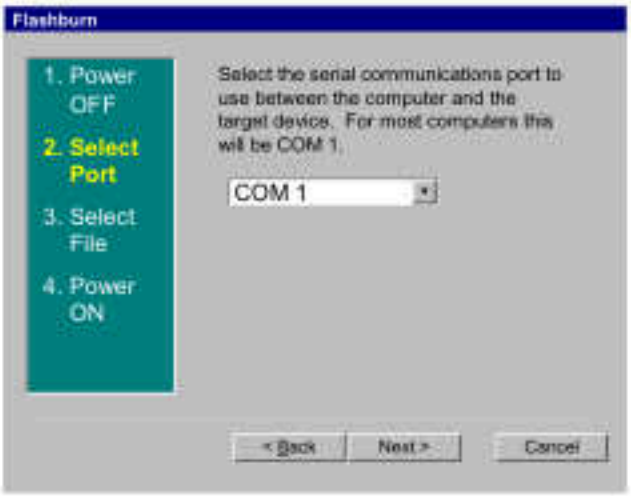
* A30329 - A30365 & A30368

** A30366 - A30367, A30369 & UP

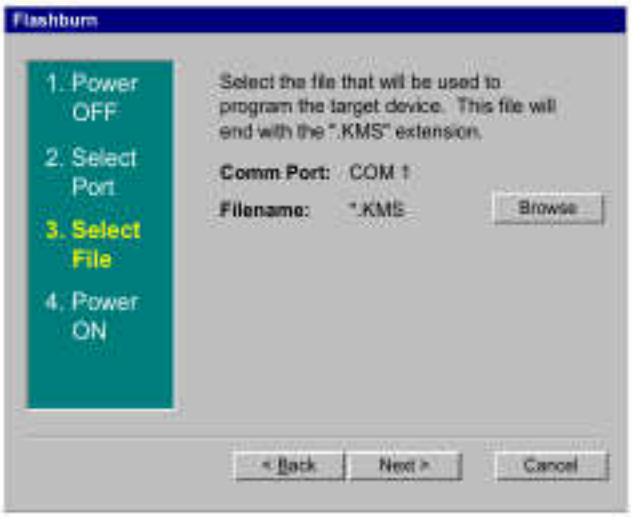
XS1301-1 DEC 04
ELECTRIC SCHEMATIC
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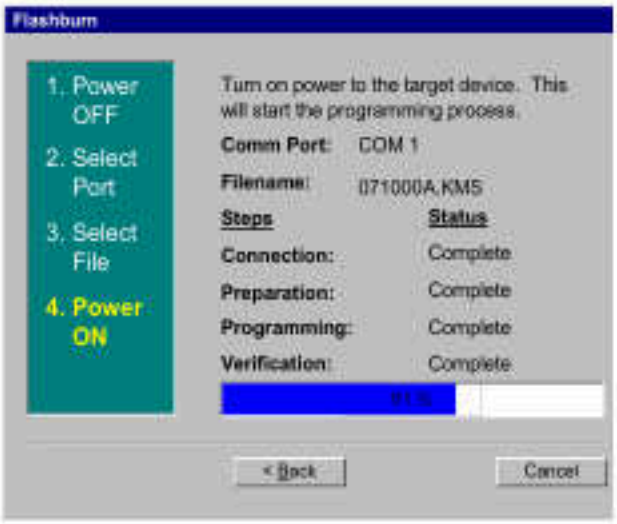
4. Confirm the proper communications port for the programming laptop. This is usually COM 1. Press "NEXT".



5. Press "BROWSE" and select the ".kms" file to program into the payload meter. Press "NEXT".



6. When instructed, turn the keyswitch ON in order to power-up the payload meter. The PC will begin to reprogram the payload meter. This process takes approximately 5 minutes.

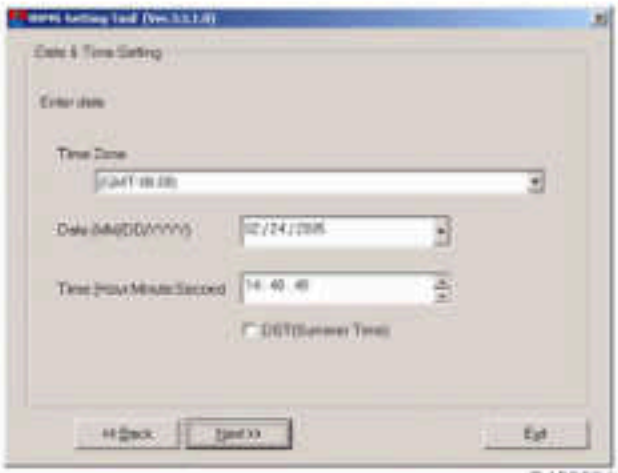


7. After successful programming, turn the key witch OFF.
8. Wait 20 seconds and turn the keyswitch ON.
9. The payload meter will need to be configured as instructed in the manual using the Payload Data Manager software on the laptop computer.

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Date & Time Setting

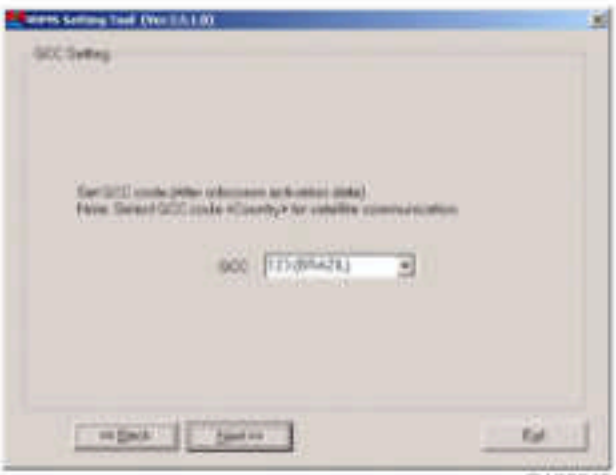
6. Enter the correct Time Zone, Date and Time. Check [DST (Summer Time)] if the machine's location uses Daylight Savings Time. Then click [Next].



D120034

GCC Setting

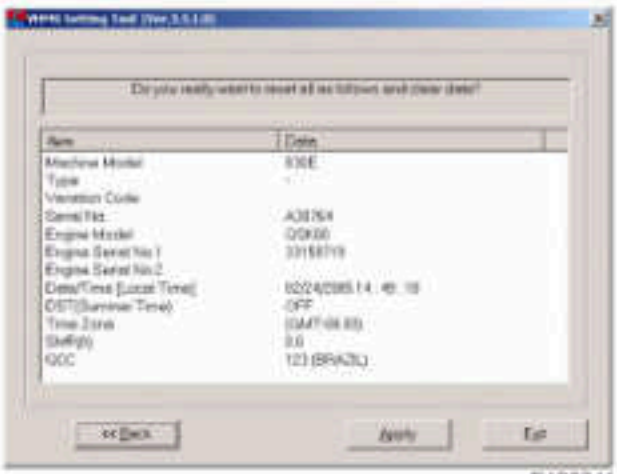
7. Choose the correct GCC code. The GCC code tells machines equipped with Orbcomm which satellite ground station to use. Then click [Next].



D120040

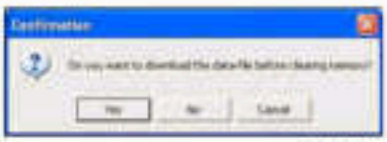
Setting Summary

8. Verify that all the setting information is correct and click [Apply].



D120041

9. Click [YES].



D120042

10. Click [OK].



D120043

11. Click [OK]. The *VHMS Setting Tool* program will close.



D120044

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COMPONENT LOCATOR SHEET

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