CEBM014801

Shop Manual

730E

DUMP TRUCK

SERIAL NUMBERS **A30310, A30312 - A30426**

KOMATSU®

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PUSHER TOOLS

TABLE 1. PUSHER TOOL DIMENSIONS		
Item	**Description**	**Dimension**
A	Plate Bolt Hole Diameter	34.8 mm (1.37 in.)
B	Plate O.D.	453.9 mm (17.87 in.)
C	Bolt Circle Diameter	393.7 mm (15.5 in.)
D	Plate I.D.	50.8 mm (2.00 in.)
E	Plate Thickness	34.8 mm (1.37 in.)
F	Pusher Cylinder Height	114.3 mm (4.50 in.)
G	Pusher Cylinder O.D.	247.7 mm (9.75 in.)
H	Pusher Cylinder I.D.	152.4 mm (6.00 in.)
I	Cylinder Wall Thickness	47.8 mm (1.88 in.)

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The lamp test switch is provided to allow the operator to test the indicator lamps prior to starting the engine. To test the lamps and the warning horn, turn key switch (1, Figure 32-11) to the RUN position, and press the bottom side of the rocker switch for the CHECK position. All lamps will illuminate, except those which are for optional equipment that is not installed. The warning horn will also sound. Any lamps that do not illuminate indicate a problem in that circuit. Notify maintenance before driving the truck. Releasing the spring-loaded switch will allow the switch to return to the OFF position.

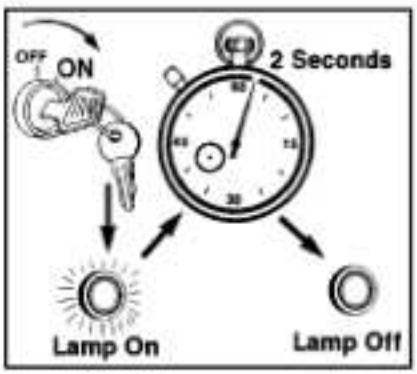
For diagnostic tests of a Komatsu engine equipped with the Centry™ fuel control, refer to Centry™ Diagnostics at the end of this section.

CENTRY™ FUEL SYSTEM DIAGNOSTICS

GENERAL OPERATION

Service engine indicator light (D6, Figure 32-12) monitors the Centry™ fuel system.

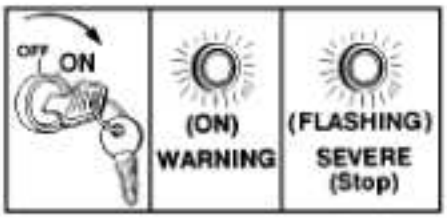
When the key switch is turned on, this light will illuminate for about two seconds and then turn off, if no faults are detected in the system. If the light stays on or flashes, then active faults have been detected by the system. DO NOT start the engine if the indicator remains lit.



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DETERMINING FAULT CODES

During engine operation, if a fault is detected in the system, the light will turn on and stay on indicating a warning fault. For more severe faults that can affect engine operation, the light will flash indicating that immediate attention is required..



Warning faults (light on) are ones that require attention in the near future, but in most conditions, will not greatly affect governing performance.

Severe faults (light flashing) are ones that require immediate attention, because Centry™ governor performance could be significantly affected, resulting in a backup mode of operation. Active fault conditions must be corrected as soon as possible.

Lamp test/diagnostic test switch (8, Figure 32-12) may be used to activate the Centry™ fuel system diagnostic codes. When the Centry™ fuel system detects a fault and service engine indicator light (D6, Figure 32-12) illuminates, this switch will permit identification of the fault(s) detected.

Centry™ fault codes consist of three numerical digits. Each digit is indicated with up to five light flashes (service engine indicator light) per each digit. There is a short pause between each digit of the fault code. Once all three digits are flashed, there is a longer pause, followed by a repeat of the same fault code sequence.

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XS0107 DEC 02
ELECTRIC SCHEMATIC
POWER DISTRIBUTION
730E
A30212 and UP
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CIRCUIT BREAKER/FUSE TOTALS					
OPERATOR CABINET	QTY	CONTROL CABINET	QTY	WANNER BOX	QTY
5A MANUAL 3		5A MANUAL 2		20A MANUAL 5	
10A MANUAL 8		15A MANUAL	15		
15A MANUAL 7					
20A FUSE 2					

CIRCUIT BREAKER NUMBERS
CONTROL CABINET
1 THRU 12 EXISTING FROM OTHER DESIGNS
13 THRU 29 MOUNTED ON RELAY BOARDS
OPERATOR CAB
30 THRU 42, 50 THRU 53 MOUNTED IN CAB
WANNER BOX
44 THRU 49 USED FOR 2200HP
49

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5. Remove the rotor from the rotor shaft.

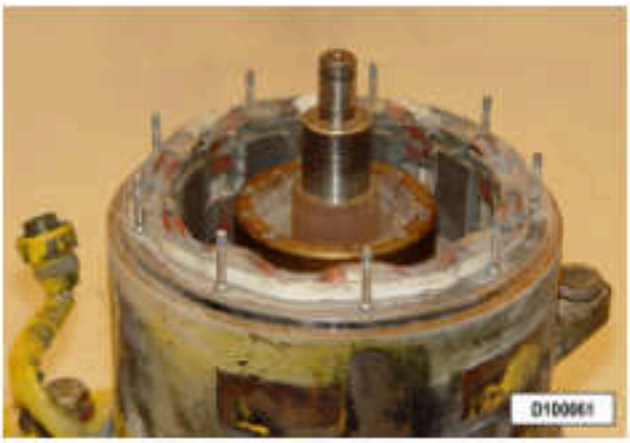


FIGURE 10-50.

Drive End Housing Removal

⚠ IMPORTANT ⚠

Ensure the single mark has been scribed between drive end housing (20) and shell (58). This mark will be used during the assembly process to correctly align the two parts.

1. Position the support stand so the large diameter hole is facing up.



FIGURE 10-51.

2. Place the alternator in the support stand with the drive end facing up.



FIGURE 10-52.

3. Remove cover plate (7) by removing six Torx screws (6) using a number T20 Torx bit.

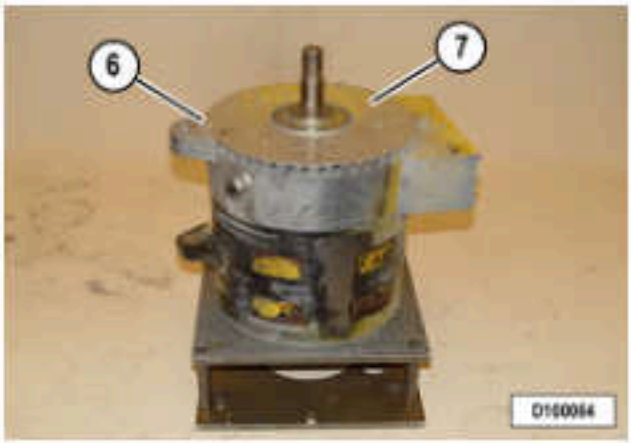
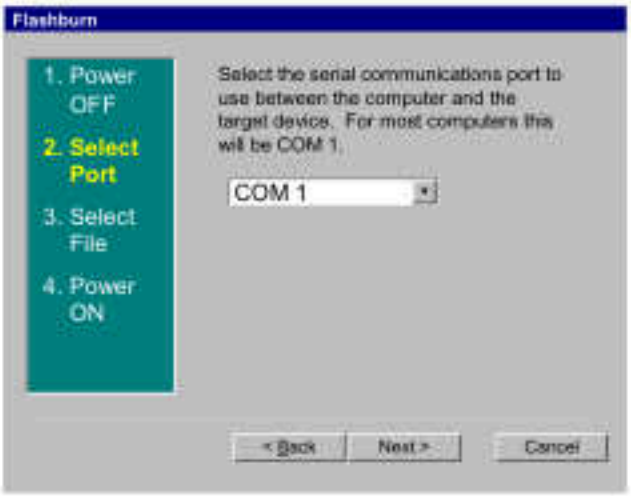


FIGURE 10-53.

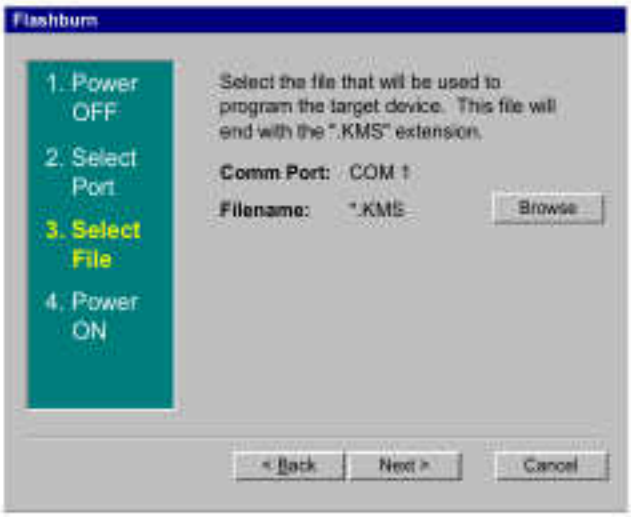
6. Screw 7. Cover Plate

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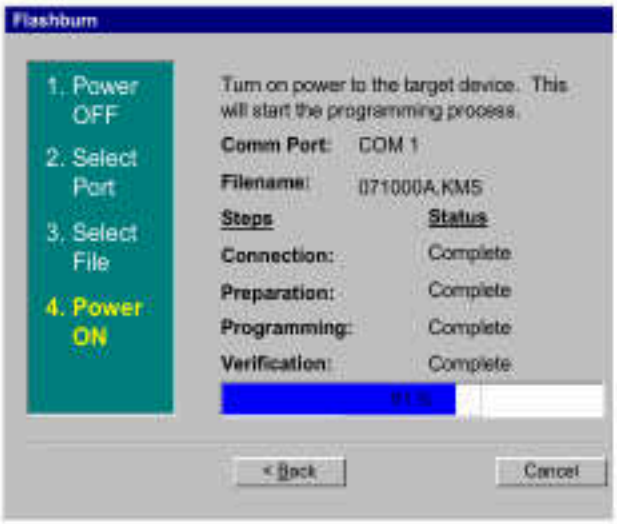
4. Confirm the proper communications port for the programming laptop. This is usually COM 1. Press "NEXT".



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

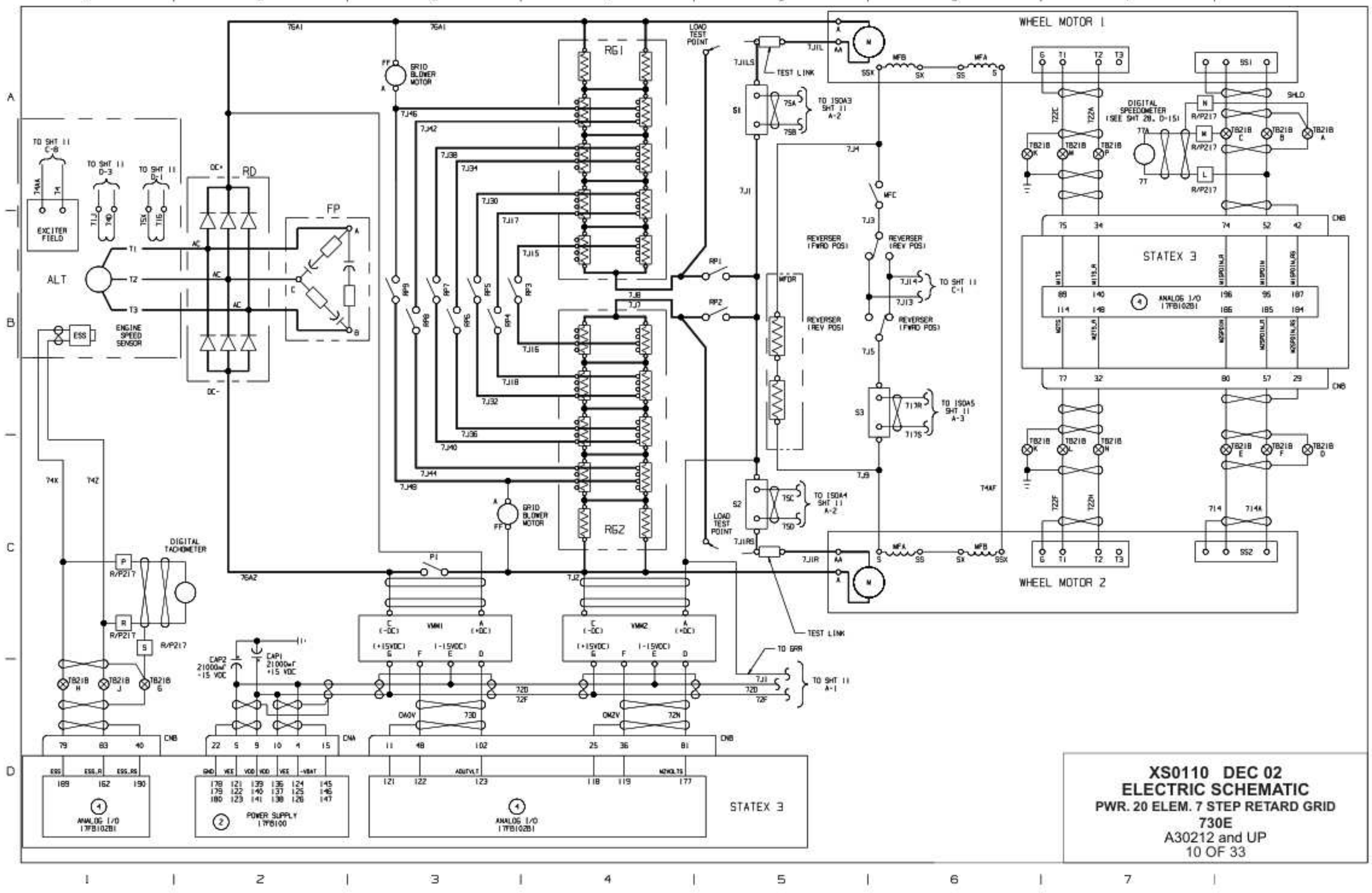


6. When instructed, turn the key switch on in order to power-up the payload meter. The PC will begin to reprogram the payload meter. This process takes approximately five minutes.



7. After successful programming, turn the key switch off.
8. Wait 20 seconds and turn the key switch 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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