DG699

Shop Manual



330M

DUMP TRUCK

SERIAL NUMBERS **BFP41-AE AND UP**

KOMATSU®

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SECTION A
GENERAL INFORMATION
INDEX

MAJOR COMPONENTS & SPECIFICATIONS A2

GENERAL SAFETY AND OPERATION A3

WARNINGS AND CAUTIONS. A4

STANDARD TORQUE CHARTS AND CONVERSION TABLES. A5

STORAGE PROCEDURES. A7

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SECTION D
ELECTRICAL SYSTEM
INDEX

24VDC ELECTRICAL SUPPLY SYSTEM D2-1
ELECTRICAL SYSTEM DESCRIPTION D2-1
BATTERY D2-1
Service D2-1
Storage D2-1
Maintenance and Troubleshooting D2-2
Spillage D2-3
BATTERY CHARGING ALTERNATOR D2-3
Operation D2-3
ENGINE PRELUB SYSTEM D2-5
Design D2-5
Operation D2-5
Troubleshooting D2-7

24VDC ELECTRICAL SYSTEM COMPONENTS D3-1
VEHICLE MONITOR SYSTEM D3-1
Vehicle Monitor Panel D3-3
Sensors, Switches D3-3
MONITOR PANEL DISPLAYS D3-6
INSTRUMENT PANEL INDICATORS, TEST SWITCH D3-9

INTRODUCTION TO ELECTRICAL TROUBLESHOOTING D4-1
TRANSMISSION SHIFT CONTROLLER D4-1
Self Diagnostic Fault Display D4-2
Deleting Fault Codes D4-2
Diagnostic Display Code Interpretation D4-4
Clutch Related Fault Codes D4-5
Operational Test D4-5
ELECTRICAL CIRCUIT TROUBLESHOOTING D4-6
Wiring Harness Connector Identification D4-6

TRANSMISSION SHIFT CONTROLLER SYSTEM TROUBLESHOOTING D5-1
TROUBLESHOOTING CHARTS D5-1
Troubleshooting Index D5-1

MONITOR PANEL TROUBLESHOOTING D6-1
TROUBLESHOOTING CHARTS D6-1
Troubleshooting Index D6-1

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CLUTCH PRESSURE CHECK & ADJUSTMENT

Refer to the *330M Transmission Shift Checker Instruction Manual* for additional information.

Note: Prior to checking clutch pressure, test and verify main relief pressure is normal.

1. Park truck on a level surface, raise dump body and lock in raised position with safety pins.
2. Shut down engine and be certain key switch is Off.
3. Install the shift checker (part number 799-607-2000) as follows (Refer to Figure 2-40):
   a. Disconnect the chassis harness (6, Figure 2-40) from the transmission control box (4).
   b. Connect shift checker harness (3) (white connectors) to the truck chassis harness connectors (SC1, SC2, SC3 & SC4) removed in step a.
   c. Be certain shift checker power switch is Off. Connect harness (3) black connector to shift checker.
4. Referring to Figure 2-41, install a pressure gauge at the pressure test port of the ECMV for the clutch to be tested. The gauge should be installed directly at the pressure test port without the use of a hose.
5. Start the engine, allow air pressure to build to normal operating range and be certain the parking brake is applied.
6. With the transmission range selector in "N", turn the shift checker power switch On.
   a. Press the clutch operation button for the desired clutch.
   b. With engine at high idle, measure and note the clutch pressure gauge reading.
   c. After reading is obtained, release accelerator and press button selected in step a. to release clutch.
7. Shut down the engine and remove the gauge installed in step 4 and replace port plug.
8. Repeat steps 4 through 7 as necessary to check other clutch pressures.

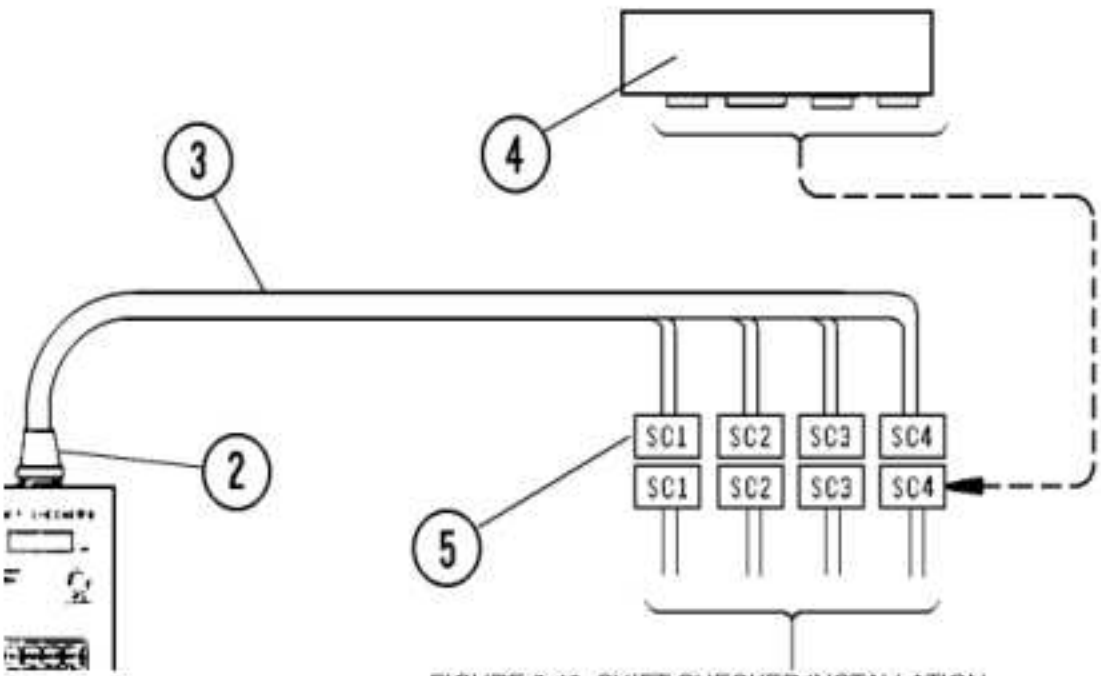


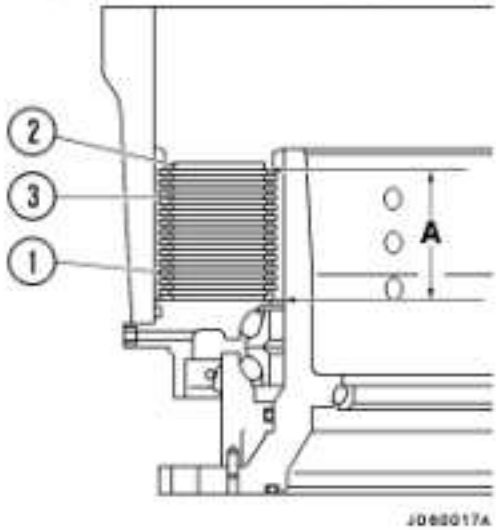
FIGURE 2-40. SHIFT CHECKER INSTALLATION

1. Shift Checker (Part No. 799-607-2000)
2. Harness connector, black (to Shift Checker)
3. Harness Assembly (Part No. 799-607-2020)
4. Transmission Control Box
5. Harness connectors, white (to Chassis Harness)
6. Truck chassis Harness (Transmission Control Box)

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Inspection

1. Replace any worn or damaged parts.



BRAKE DISC INSPECTION

1. Plate
2. Damper
3. Disc

Dimension "A" =
123.9 mm (4.88 in.) Standard Height
115.0 mm (4.50 in.) Minimum Height [Max. Wear]

REAR BRAKE INSPECTION			
ITEM	**STANDARD**	**LIMIT**	**REMEDY**
Plate	2.4 mm (0.095 in)	2.15 mm (0.085 in)	Replace
Disc	5.1 mm (0.2 in)	4.6 mm (0.18 in)	Replace
Damper	6.9 mm (0.27 in)	5.1 mm (0.20 in)	Replace
Max. Disc Warping	0.45 mm (0.018 in)	0.7 mm (0.028 in)	Replace
Max. Plate Warping	0.50 mm (0.020 in)	0.7 mm (0.028 in)	Replace
Assembled Thickness of Discs & Plates	Dimension "A"		Replace
	123.9 mm (4.88 in.)	115.0 mm (4.5 in.)	
Backlash between outer gear and plate	0.21 - 0.64 mm (0.008"- 0.025")	2.2 mm (0.087 in.)	Replace
Backlash between inner gear and plate	0.21 - 0.64 mm (0.008"- 0.025")	2.2 mm (0.087 in.)	Replace

Assembly

Clean all parts, and check for dirt or damage. Coat the sliding surfaces of all parts with clean brake system oil before installing.

When assembling the floating seals, use alcohol to remove all the white powder from the O-ring surface before assembling.

Tools for installation of rear wheel brake floating seal

- 791-585-1510 installer-large diameter
- 792-530-1700 push tool-large diameter
- 792-520-2110 installer-small diameter
- 792-530-1600 push tool-small diameter

1. Using tools (1, Figure 6-10) install floating seals (3, Figure 6-9) and (1) to inner gear (2).

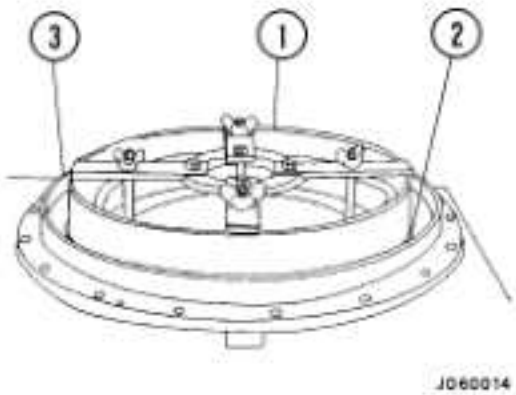


FIGURE 6-10. FLOATING SEAL INSTALLATION

1. Tool
2. Floating Seal
3. Hub

2. Using tools (1), install floating seal (2) to hub (3).

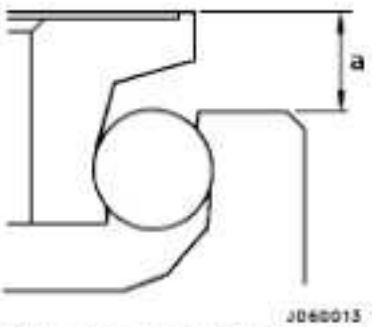
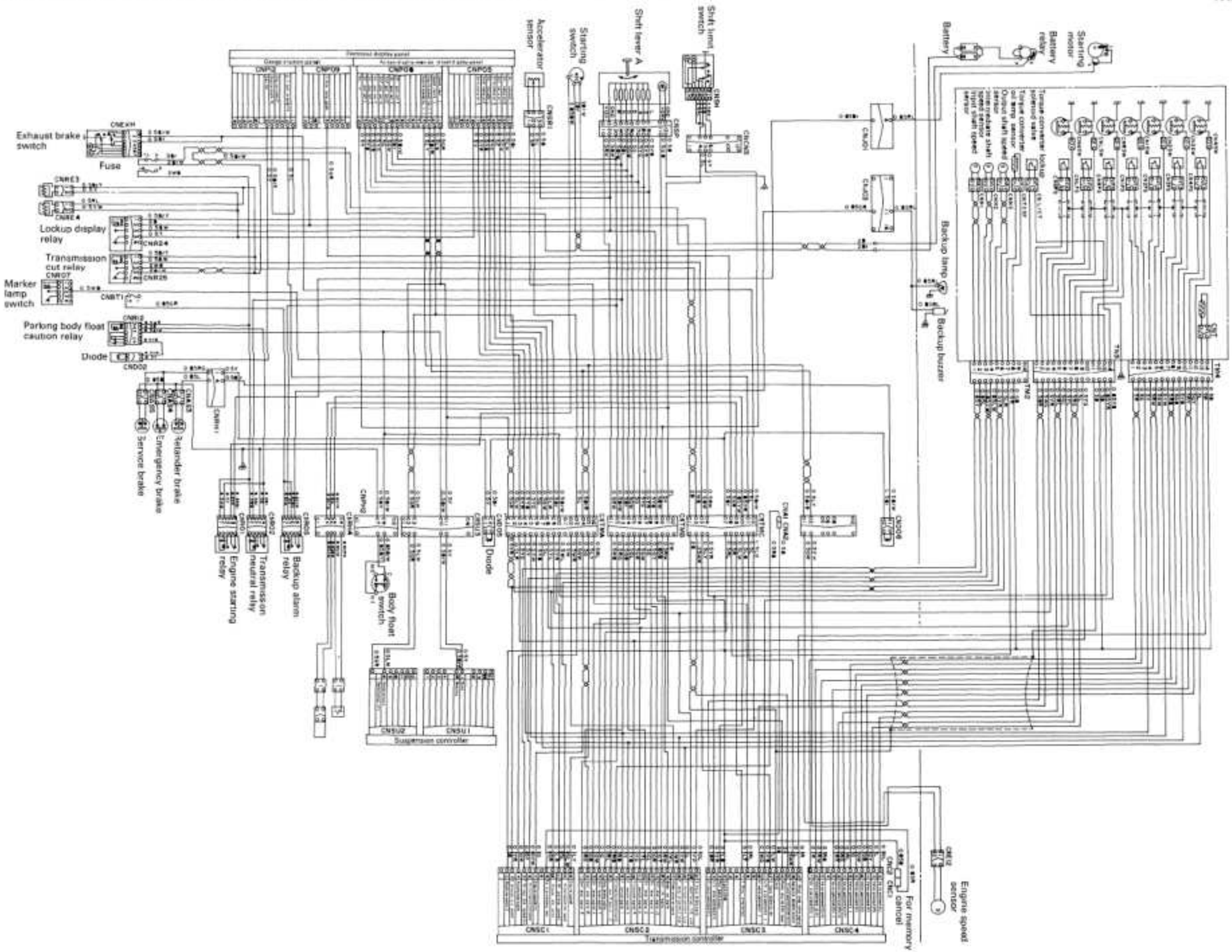


FIGURE 6-11. SEAL INSTALLATION

NOTE: After installing the floating seals, measure dimension "A" (Figure 6-11) between the inner gear and floating seal at four places around the circumference and check that the measurement is within 1 mm (0.039 in).

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ELECTRICAL CIRCUIT DIAGRAM FOR TRANSMISSION CONTROL SYSTEM



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