DG642

Shop Manual



330M

DUMP TRUCK

SERIAL SUFFIX **BFP41-A thru BFP41-AD**

KOMATSU®

Order the manual at mid-west-tech.com >

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

MidWestTech | Komatsu 330M Dump Truck Service Manual | Publication DG642 Order the manual at mid-west-tech.com >

CONNECTOR NO.	TYPE	NO. of PINS	LOCATION	FIGURE NO.	SCHEMATIC LOCATION
SR2	X	3	Steering sensor	4-2 (E-1)	
SU1	MIC	21	Suspension controller (not used)	4-5	
SU2	MIC	13	Suspension controller (not used)	4-5	
SU3	S	16	Intermediate controller	4-5	
SU4	M	4	Model selection	4-5	
TC, SE	X	2	Transmission oil temperature sensor	4-6	
TMA	S	16	Transmission controller intermediate	4-5	98
TMB	S	12	Transmission controller intermediate	4-5	98
TMC	S	12	Transmission controller intermediate	4-5	99
TM2	JWP	14	Transmission controller intermediate	4-6	102
TM3	SWP	14	Transmission controller intermediate	4-6	102
TM4	SWP	14	Transmission controller intermediate	4-6	102
WL	M	2	Caution lamp		41
1PS	X	2	Transmission solenoid valve	4-6	102
2PS	X	2	Transmission solenoid valve	4-6	102
3PS	X	2	Transmission solenoid valve	4-6	102
4PS	X	2	Transmission solenoid valve	4-6	102
1SW	X	1	Transmission solenoid valve fill switch	4-6	103
2SW	X	1	Transmission solenoid valve fill switch	4-6	103
3SW	X	1	Transmission solenoid valve fill switch	4-6	103
4SW	X	1	Transmission solenoid valve fill switch	4-6	103
01	SWP	14	Lighting intermediate connector	4-2 (D-8)	
02	SWP	8	Deck wiring harness intermediate connector	4-2 (D-8)	
13	X	2	Left front suspension sensor (optional)	4-2 (D-1)	
20	SWP	14	intermediate connector	4-2 (D-8)	
26	X	2	Coolant temperature sensor	4-2 (B-3)	85
30	SWP	14	Right deck wiring harness intermediate connector	4-2 (B-7)	
39	X	2	Right front suspension sensor (optional)	4-2 (A-7)	
52	X	2	Transmission filter sensor	4-2 (J-3)	
53	X	2	Retarder filter sensor	4-2 (K-4)	
54	X	2	Hydraulic filter sensor	4-2 (K-4)	
61	X	2	Fuel level sensor	4-2 (G-9)	93
62	X	2	Left rear suspension sensor (optional)	4-2 (K-8)	
63	X	2	Right rear suspension sensor (optional)	4-2 (H-9)	
64	X	2	Retarder oil temperature sensor	4-4	84

TABLE V. WIRING HARNESS CONNECTOR IDENTIFICATION

MidWestTech | Komatsu 330M Dump Truck Service Manual | Publication DG642 Order the manual at mid-west-tech.com >

FRONT TIRES AND RIMS

Removal

1. Stop the machine on level ground, apply parking brake and put blocks on both sides of the rear wheels.
2. Place a 50 ton capacity or larger hydraulic jack (1, Figure 2-2) under the suspension cylinder on the A-Frame and jack up the front wheel assembly and block up securely.

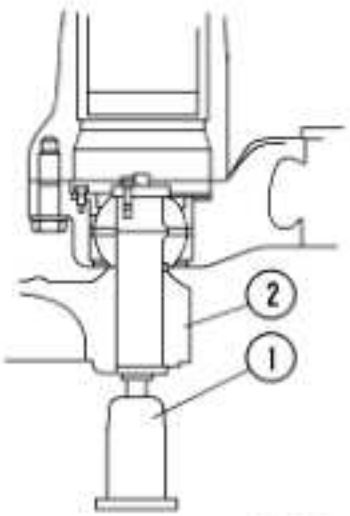


FIGURE 2-2. JACK PLACEMENT

1. Jack (50 ton capacity)
2. A-Frame

⚠WARNING

When deflating tires, be wary of flying dirt and debris. Wear eye protection at all times.

⚠CAUTION

Do not totally deflate tire. Keep tire inflated to 10-15 psi (69-103 kPa) to assure tire and rim components remain assembled during tire handling.

3. Release air from tire.
4. Grasp tire assembly with the tire handler.

⚠CAUTION

Do not damage the tire inflation stem during tire removal.

⚠WARNING

Due to its size and weight, always keep personnel away from a wheel and tire assembly when it is being removed or installed.

5. Remove wheel clamp nuts (3, Figure 2-3) and retainers (2).
6. Move wheel and tire assembly away from wheel hub and into clean work area.
7. Inspect brake components for damage or wear. Inspect hydraulic brake lines for leaking fittings or damage.

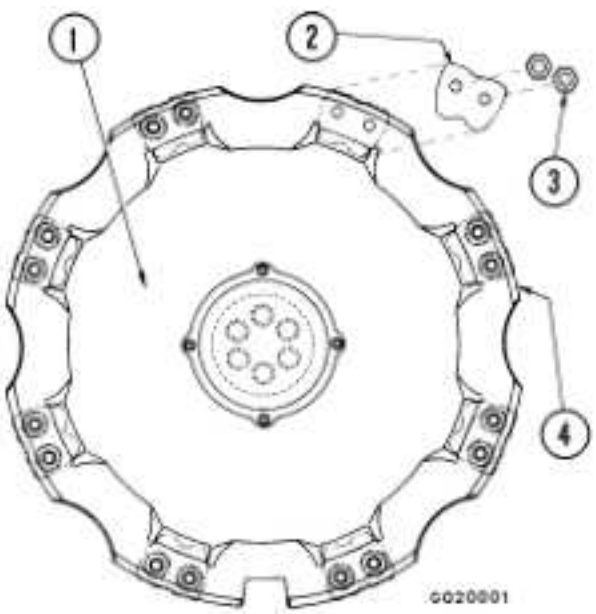


FIGURE 2-3. FRONT WHEEL HUB

1. Hub
2. Retainer
3. Nuts
4. Rim

MidWestTech | Komatsu 330M Dump Truck Service Manual | Publication DG642 Order the manual at mid-west-tech.com >

PROBLEM: Readings are suspected of being inaccurate.

POSSIBLE CAUSES	*CORRECTION*
Computer in need of calibration.	Calibrate computer.
Loading area uneven or rutted.	Grade loading area to provide a smooth level surface.
Low charge in suspension, especially oil level in rears.	Recharge suspension and recalibrate computer.
Operators are backing truck up on rocks, berms, or bank at loading area.	Remind operators not to back up on such obstacles.
Operators releasing brake lock switch too soon after last pass is dropped in body.	Remind operators to wait several seconds after last pass before releasing brake lock to allow suspension pressures to stabilize.
Inclinometer out of adjustment.	Adjust inclinometer to read 0.0 ± 0.1 °on level surface.
Operators are not using brake lock switch properly.	Remind operators of proper use of switch.
Unit is set for metric tons when short tons are desired.	Check to see if jumper wire structure is installed in harness inside payload meter housing.
Malfunction in brake lock hydraulics, allowing front and rear brakes to energize during brake lock (all trucks except 830E).	Troubleshoot system.
Pressure sensors wired in incorrect sequence.	Verify proper sequence as outlined in checkout procedure.

PROBLEM: Printing is faint or blotchy.

POSSIBLE CAUSES	*CORRECTION*
Printer paper exposed to bright sunlight, heat, or cold and has become inactive.	Replace paper with fresh roll.
Printer is cold.	Warm up cab interior to warm up the printer.
Foreign material in printer.	Carefully clean printer assembly.
Printer paper inserted upside-down.	Remove and insert paper correctly.
Defective printer assembly.	Replace printer cartridge.

PROBLEM: Lights are not working.

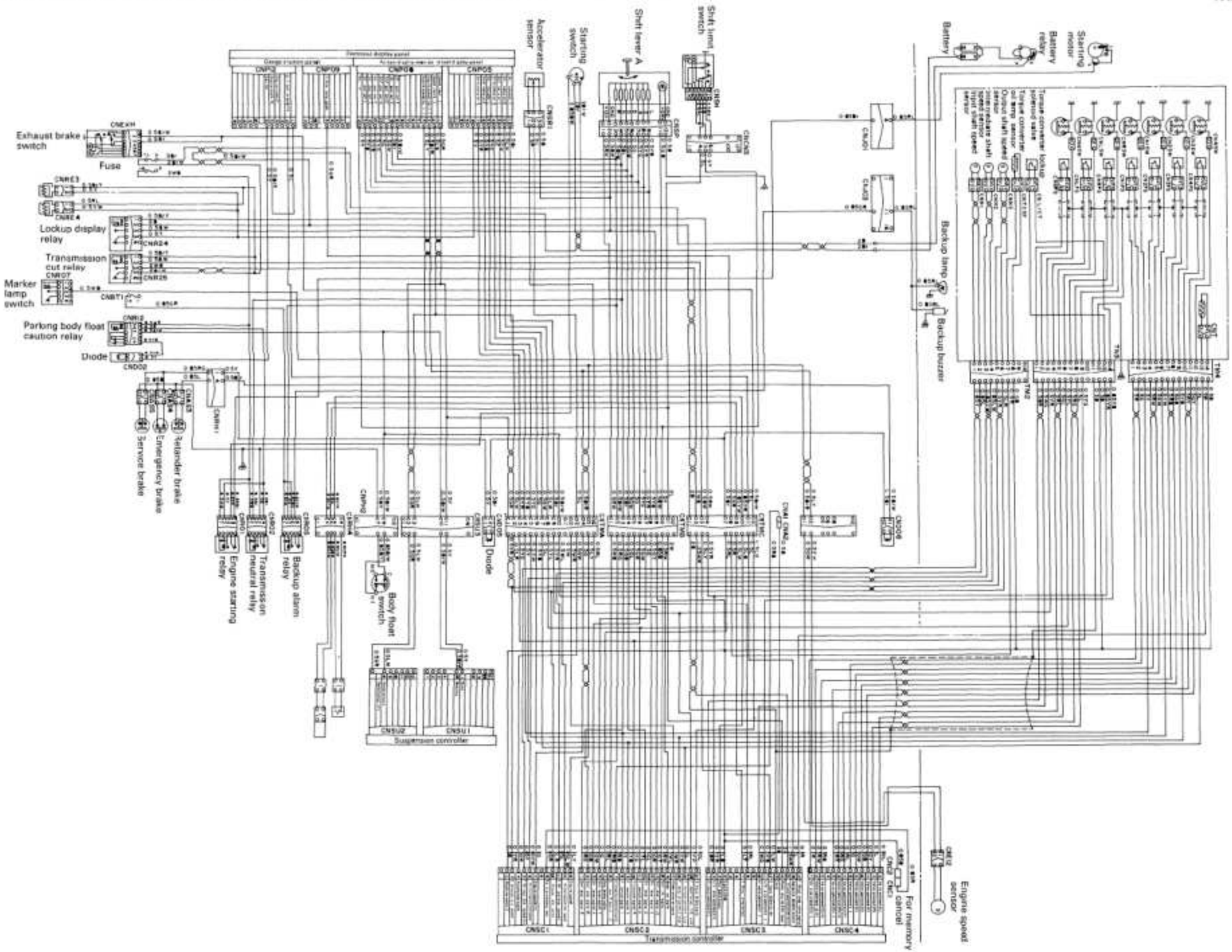
POSSIBLE CAUSES	*CORRECTION*
Burned out light bulbs.	Replace burned out bulbs.
15 amp circuit breaker in circuit 39A is tripped.	Look for shorts and reset circuit breaker.

PROBLEM: System is not working, display is blank.

POSSIBLE CAUSES	*CORRECTION*
5 amp circuit breaker in circuit 39G is tripped.	Look for shorts and reset circuit breaker.
Open circuit to computer.	Verify + 24V on 39G when key and control power are on, and verify ground (710) connections.

MidWestTech | Komatsu 330M Dump Truck Service Manual | Publication DG642 Order the manual at mid-west-tech.com >

ELECTRICAL CIRCUIT DIAGRAM FOR TRANSMISSION CONTROL SYSTEM



Order the manual at mid-west-tech.com >