

# SHOP MANUAL

## KOMATSU

### GD530A, AW SERIES GD650A, AW SERIES GD670A, AW SERIES

MACHINE MODEL	SERIAL NUMBER	MACHINE MODEL	SERIAL NUMBER
GD530A-1	200840 THRU 202000	GD650A-2C	
GD530A-1E	201404	GD650AW-1	200840 THRU 202000
GD530A-2A	202002 & Up	GD650AW-2A	202002 & Up
GD530A-2B	202002 & Up	GD650AW-2B	202002 & Up
GD530A-2E	202002 & Up	GD650AW-2E	202002 & Up
GD530A-2C		GD650AW-2C	
GD530AW-1	200840 THRU 202000	GD670A-1	200840 THRU 202000
GD530AW-2A	202002 & Up	GD670A-2A	202002 & Up
GD530AW-2B	202002 & Up	GD670A-2B	202002 & Up
GD530AW-2E	202002 & Up	GD670A-2E	202002 & Up
GD530AW-2C		GD-670A-2C	
GD650A-1	200840 THRU 202000	GD670AW-1	200840 THRU 202000
GD650A-2	202001	GD670AW-2A	202002 & Up
GD650A-2A	202002 & Up	GD670AW-2B	202002 & Up
GD650A-2B	202002 & Up	GD670AW-2E	202002 & Up
GD650A-2E	202002 & Up	GD-670AW-2C	

This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Material and specifications are subject to change without notice.

GD530A, AW Series mount the KDC610T / S6D102-1 / S6D102E-1 engine.  
GD650A, AW Series mount the KDC614T / S6D114-1 / S6D114E-1 engine.  
GD670A, AW Series mount the KDC614T / S6D114-1 / S6D114E-1 engine.

For details of the engines, see the appropriate engine manual sets.

APR 96

# CONTENTS FOR CEBMG65194

(REPLACES CEBMG65193)

A-01.50K		ARTICULATION JOINT ASSEMBLY
A-10.40K		CHAR-LYNN ORBITROL UNIT
C-11.40K R1		TRANSMISSION, POWER SHIFT (FUNK 2263E130B)
E-01.15K		ALL WHEEL DRIVE PUMP (REXROTH)
E-03.90K R1		CIRCLE REVERSE MOTOR (DANFOSS)
E-03.95K	◇	CIRCLE REVERSE MOTOR (CHAR-LYNN)
E-04.60K		STEERING & BRAKE PUMP (EATON MODEL 70422 RDU)
E-13.30K		HYDRAULIC MOTOR (VICKERS) (ALL WHEEL DRIVE)
E-30.40K		HYDRAULIC OIL SWIVEL BLOCK (4-WAY)
E-32.35K		CONTROL VALVE MANIFOLDS (HUSCO 5000C SERIES)
E-32.45K		MAIN SYSTEM PUMP
E-32.90K		ALL WHEEL DRIVE (AWD) H.I.C. VALVE
E-33.00K R1		HYDRAULIC CYLINDERS
E-33.10K		ACCUMULATORS (P/N 1285 352 H91, 1279 537 H1 & 1233 789 H91)
E-33.80K		TROUBLESHOOTING AND ADJUSTMENT MANUAL
E-34.00K	◇	REAR AXLE COOLING AND LOCK/UNLOCK DIFFERENTIAL PUMP
F-01.20K R1		CIRCLE REVERSE SLIP CLUTCH
F-01.30K		CIRCLE REVERSE GEAR CASE
F-11.80K R1		TANDEM CASE (SINGLE AND DOUBLE STRAND CHAINS)
G-01.13K R3		GEARBOX ASSEMBLY (AWD)
G-01.15K		FRONT AXLE ASSEMBLY
G-09.30K R1	◆	FINAL DRIVE ASSEMBLY (JD TeamMate II) WITH PLANETARY AND NON-PLANETARY REDUCTION (NoSPIN & LOCK/UNLOCK DIFFERENTIAL)
H-03.00K R1		CIRCLE ADJUSTMENT (FOUR SHOE)
K-04.20K R1		PARKING BRAKE CALIPER (PERROT P/N 40 023 002)
K-04.30K		PARKING BRAKE CALIPER (MICO)
K-11.10K R2		BRAKE VALVE (REXROTH MODEL MB 08 HMD-1X/70-19H)
K-11.30K R1		BRAKE VALVE (MICO)
L-01.45K	◇	WIRING DIAGRAMS
N-01.35K R1		PRE-DELIVERY PROCEDURES
X-01.00K		SUSPENSION SEAT
Y-01.00K		GENERAL TORQUE VALUES
Y-02.00K		METRIC CONVERSIONS

<b>The affected sections are indicated by the use of the marks shown in this table. It is requested that necessary action be taken to these sections accordingly.</b>	<b>Mark</b>	<b>Indication</b>	<b>Action Required</b>
	◇	Section to be newly added.	Add
	◆	Section to be replaced.	Replace
	⊗	Section to be deleted.	Discard



# SHOP MANUAL

# A-01.50K

## ARTICULATION JOINT ASSEMBLY

### APPLICABLE MODELS

GD530A-1  
GD530AW-1  
GD650A-1  
GD650AW-1  
GD670A-1  
GD670AW-1

### SERIAL NUMBERS

200417 & Up  
200417 & Up  
200417 & Up  
200417 & Up  
200417 & Up  
200417 & Up

### CAUTION

- |                |   |
|----------------|---|
| <b>ALL</b>     | COMPONENTS MUST BE PROPERLY SUPPORTED DURING DISASSEMBLY AND REASSEMBLY.                                    |
| <b>ALL</b>     | JACKING, HOISTING AND GENERAL WORKSHOP EQUIPMENT REQUIRED FOR THIS OPERATION MUST BE IN GOOD WORKING ORDER. |
| <b>EXTREME</b> | CAUTION TO BE OBSERVED AT ALL TIMES TO PREVENT INJURY.  |
| <b>SAFE</b>    | WORKSHOP PRACTICES ARE A MUST.  |

FOR TABLE OF CONTENTS SEE PAGE 1

# GENERAL TORQUE VALUES

Refer to "General Torque Values" shop manual section when **SPECIFIC TORQUES** are not given in this shop manual section. All values listed throughout this manual are lubricated (WET) unless stated otherwise.

# METRIC CONVERSIONS

Refer to "Metric Conversions" shop manual section for metric conversion of U.S. Measurements.

# TABLE OF CONTENTS

CONTENTS	PAGE
INTRODUCTION .....	2
SERVICING .....	3
REMOVAL .....	3
DISASSEMBLY .....	8
CLEANING AND INSPECTION .....	10
REASSEMBLY .....	12
INSTALLATION .....	15

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$