CEBM011300

Shop Manual

KOMATSU®

WB150AWS-2N

BACKHOE LOADER

SERIAL NUMBERS **WB150AWS-2N A90001** and UP

This material is proprietary to Komatsu Utility Division and is not to be reproduced, used, or disclosed except in accordance with written authorization from Komatsu Utility Division.

It is our policy to improve our products whenever it is possible and practical to do so. We reserve the right to make changes or add improvements at any time without incurring any obligation to install such changes on products sold previously.

Due to this continuous program of research and development, periodic revisions may be made to this publication. It is recommended that customers contact their distributor for information on the latest revision.

July 2003
Printed in USA

Copyright 2003 Komatsu
DataKom Publishing Division

MidWestTech | Komatsu WB150AWS-2N Backhoe Loader Service Manual | Publication CEBM011300 Order the manual at mid-west-tech.com >

PRODUCT PUBLICATIONS INFORMATION

Various product Parts and Service Publications are available to all **KOMATSU** construction equipment owners, including operation and maintenance manuals, parts books and service manuals.

Special publications, such as service tool, air conditioning and turbocharger service manuals are also available as well as selected Operation and Service manuals in foreign languages.

The Publications listed below are available for this particular machine(s).

DESCRIPTION	FORM NUMBER
PARTS BOOK - PAPER:	
Chassis and Engine	BEPB021600
OPERATION AND MAINTENANCE MANUAL:	
Chassis and Engine	CEAM010900
SHOP MANUAL	
Chassis	CEBM011300
Engine	WEBM4D9801
SAFETY MANUAL	
Machine specific	BL10-3

Parts and Service Publications can *only* be acquired by authorized KOMATSU distributors using the Komatsu America Corp. Extranet Literature Ordering System.

If the Extranet Literature Ordering System is not available at the distributor location, then the following Requisition for Technical Service Publications and Service Forms can be used. Form KDC91E is shown on the reverse side of this page. Komatsu America Corp. reserves the right to add a surcharge to all fax orders.

MidWestTech | Komatsu WB150AWS-2N Backhoe Loader Service Manual | Publication CE... Order the manual at mid-west-tech.com >

★ The technical data in this table apply to a machine with max 500 kg shovel bucket, 600 mm (max. 160 kg) backhoe bucket and standard arm (or telescopic arm) closed.

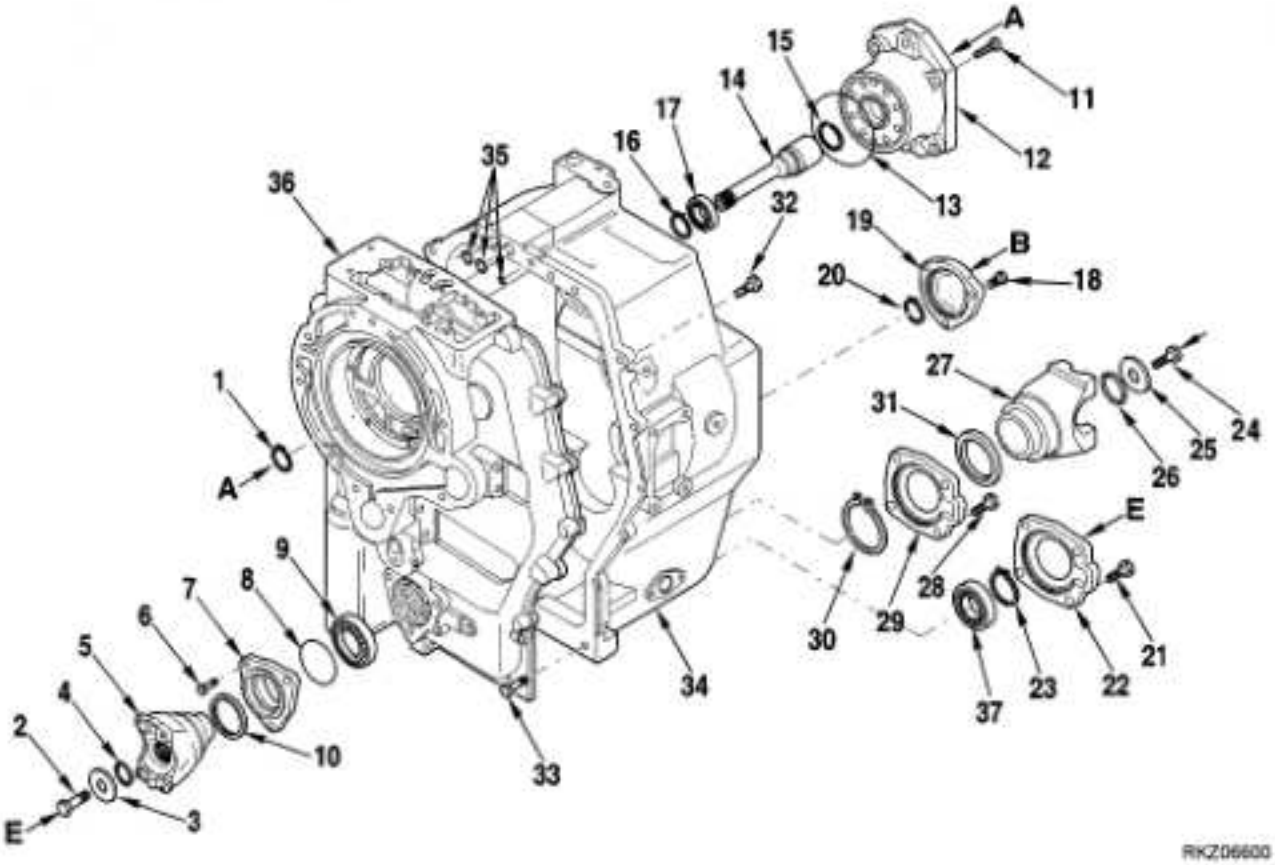
Machine model				WB150AWS-2	
Classification	Check item	Test condition	Unit	Standard value	Permissible value
Work equipment speed	Time lags	Tilt lever front bucket	sec.	0	Max. 2
		• Engine speed: Min. • Oil temperature: 45 – 55°C • Check the time necessary to lift bucket from level ground.			
		Boom		0	Max. 2
		Measuring posture			
		• Engine speed: Min. • Oil temperature: 45 – 55°C • With attachments fully extended, lower the boom and check the necessary time from the beginning of machine lifting until bucket is on level ground.			
		Arm		0	Max. 2
		Measuring posture			
		45°			
		• Engine speed: Min. • Oil temperature: 45 – 55°C • Put boom at 45°, open completely the arm with curled bucket. Extend arm cylinder and check the time passing between arm stop at dead centre and the restart movement.			

MidWestTech | Komatsu WB150AWS-2N Backhoe Loader Service Manual | Publication CE... Order the manual at mid-west-tech.com >

Pinion and ring teeth breakage	
CAUSES	**REMEDY**
Crash load of differential components	Check and/or replace other differential components.
Side gear spline worn out	
CAUSES	**REMEDY**
Excessive use	Replace differential gear group. Replace halfshaft if required.
Thrust washer surface worn out or scratched	
CAUSES	**REMEDY**
Insufficient lubrication; contaminated oil; incorrect lubrication	Use correct lubrication and fill up to right level. Replace at recommended intervals. Replace scratched washers and those 0.1 mm or more undersize with new ones.
Inner diameter of tapered roller bearing worn out	
CAUSES	**REMEDY**
Excessive use axial pinion	Replace bearing. Check pinion axial backlash. Use proper lubrication, fill up to right level and replace at recommended intervals.
Excessive pinion axial backlash	
Insufficient lubrication; contaminated oil	
Bent or broken halfshaft or halfshaft broken at wheel side	
CAUSES	**REMEDY**
Vehicle intensively operated or overloaded	Replace. Check that wheel support is not worn out or wrongly adjusted.
Wheel support loosened	
Beam body bent	

MidWestTech | Komatsu WB150AWS-2N Backhoe Loader Service Manual | Publication CE... Order the manual at mid-west-tech.com >

DISASSEMBLY TRANSMISSION HOUSING



1. Drain oil from transmission hydraulic circuit.
2. Remove bearing retaining ring (1).



MidWestTech | Komatsu WB150AWS-2N Backhoe Loader Service Manual | Publication CE... Order the manual at mid-west-tech.com >