

Shop Manual

D31A-16

D31P-16

BULLDOZER

SERIAL NUMBERS 25001 and up

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

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 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, revisions may be made to this publication. It is recommended that customers contact their distributor for information on the latest revision.

Copyright 2010 Komatsu
Printed in U.S.A.
Komatsu America Corp.

July 1992

FOREWORD

Only through correct operation, maintenance, trouble shooting, and repairs, can the effective performance, prevention of breakdowns and a long useful life of a machine be sustained.

The object of this "Shop Manual" is to furnish the information needed by the serviceman to perform his work well, by giving him the essential details precisely but in an easily understood format.

In performing his work, the serviceman should study the pertinent section of this manual carefully, and work systematically and scientifically by following the outlined work sequence.

This Shop Manual has been prepared with the above in mind, so that each basic part of the machine is dealt with under the headings: "Structure and Function", "Testing and Adjusting", "Specifications" and "Disassembly and Assembly".

Also a section on General Technical Procedures is provided to furnish details on basic operations and procedures common to the serviceman's work on the different parts of the machine.

1. Structure and Function.

This section gives a detailed explanation of the "Structure" with details and drawings of the "Constituent Parts" and "block" or "circuit" diagrams, arranged for the serviceman, but also useful as a textbook for training service personnel. However, in the latter case Training Aids should be used to cover the basic theory not included in this manual.

2. Testing and Adjustments.

Procedures of all the necessary "Tests" and "Adjustments" are described with photographs showing the necessary measuring equipment and the location for making the measurements. This should aid the serviceman in his trouble shooting, checking and adjusting work.


3. Specifications

In this section, all standard dimensions and tolerances that are necessary to perform Testing and Adjustments are presented; with drawings together with, appropriate procedures for disassembly and assembly, performing repairs, or trouble shooting. However, basic dimensions and tolerances, for repairs or rebuilding, are limited to those machine parts most commonly worked on.

PRECAUTIONS, WHEN PERFORMING THE SERVICE WORK.

Always pay attention to, Safety, before starting any work – this is important.


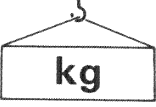

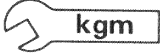
Never attempt any work where danger to yourself or to other persons.

Whenever work requiring safety precautions are described in this manual, a flag mark  in inserted, always make double sure that safety measures are taken.

Other unmarked work, should always be performed after studying and using your common sense to prevent accidents.

DESCRIPTION OF THE SYMBOLS

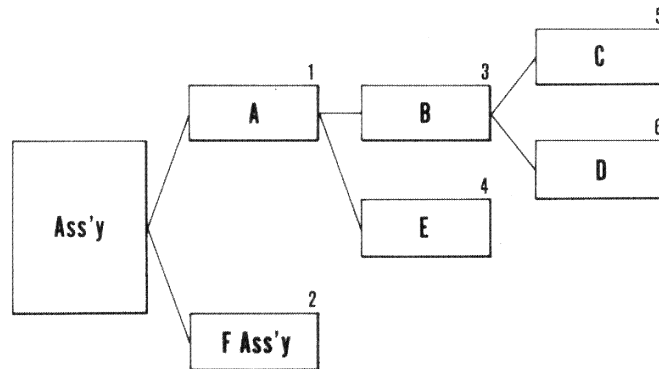
The symbols described below are used in this manual for convenience and better understanding.

Symbol	Item	Description
	Safety	Special safety precautions are needed to perform the work.
	Weight	The hoisting wire and equipment must be properly selected to safely bear the designated weight.
	Note	Special technical precautions are needed to perform the work.
	Tightening Torque	Fastening parts that require specified tightening force when assembling.

NETWORK DIAGRAMS

The standard procedures for disassembly and assembly are described and shown in photographs, according to each part of the machine.

The sequence or steps employed in disassembly and assembly are shown in network diagrams as depicted below.



In the network, the sequence of the procedural steps are given in arabic numbers on the right top of each block. For example, when it is necessary to remove part **D** from the assembly, the steps for removal should be **A → B → D**. Or, to remove part **E** the step is **A → E**. **F Ass'y** This is an assembly of which the disassembling procedure is described separately. For assembly, the sequence is presented in the same manner, under each section, as for disassembly.

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

<https://shopservicemanual.com/>

Service Manuals from 2\$