D8085A12BE3

Shop Manual

D80A/E-12
D85A/E-12

BULLDOZER

SERIAL NUMBERS

D80A-12	21017	and up
D80E-12	20337	and up
D85A-12	20337	and up
D85E-12	20337	and up

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 datails 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, DISASSEMBLY AND ASSEMBLY and MAINTENANCE STANDARD.

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 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 Adjusting.**
   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. **Disassembly and Assembly.**
   This section covers the dismounting and mounting of each component and disassembly and assembly of each component.
   These processes are shown in a network diagram with the explanation and photographs. Regarding the engine and the undercarriage, this section covers only dismounting and mounting.

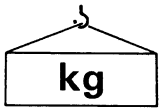
4. **Maintenance Standard.**
   In this section, all standard dimensions and tolerances that are necessary to perform Testing and Adjusting are presented; with drawings together with, appropriate procedures for disassembly and assembly, performing repairs, or trouble shooting. However, basic dimensions 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 safety 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.

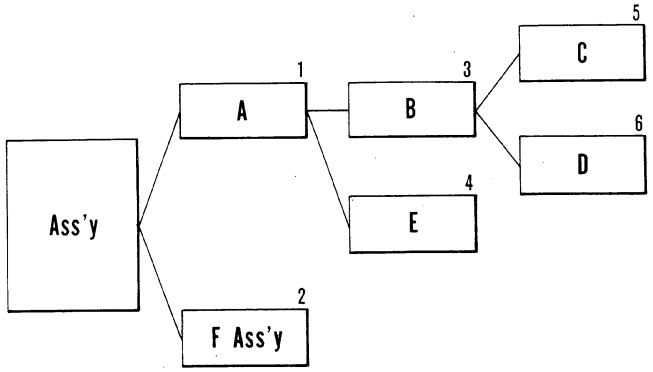
DESCRIPTION OF THE SYMBOLS

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.