

# Shop Manual

# D75S-2

## DOZER SHOVEL

**SERIAL NUMBER D75S-2 1004 and up**

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# **SPECIFICATIONS**





# FOREWORD

This MANUAL is published for the information and guidance of shop personnel charged with the task of servicing the KOMATSU D75S-2 Dozer Shovel, and provides instructions to be adhered to in disassembling and re-assembling machines of this model in the shop. The instructions are given mainly in the form of procedures, and, in each section of the MANUAL, are preceded by an outline description of each major component in respect to mechanical construction, function and other pertinent items.

## TERMINOLOGY

Effort has been made in the preparation of this MANUAL to use the most common shop terms in order to avoid ambiguity and equivocation. Some key terms used, however, require precise agreement in advance between the writer and the reader as to their meanings, as the clarity of what are aimed at in shop work depends largely on these terms. Throughout this MANUAL, the major key terms are used with the following meanings.

### (1) **Clockwise (C.W.) and Counterclockwise (C.C.W.)**

A circular direction, C.W. or C.C.W., is in the mind of the viewer standing in front and ahead of the machine, except when a driven component is discussed. Such a component as the oil pump, the component is considered singly and as viewed from its driving side.

### (2) **Terms of Servicing Criteria**

**BASIC SIZE:** This term is universally defined as the theoretical or nominal standard size (diameter,

length, thickness, etc.) from which variations are made, and is used in this sense throughout.

**ASSEMBLY STANDARD:** This is a dimensional value or a range of dimensional values to be adhered to in assembling components. An assemblage is required to satisfy the assembly standard specified for it.

**STANDARD CLEARANCE:** This refers to a clearance range, within which a distance of separation occurring in a full assembly or sub-assembly of replacement parts must take its value. Such an assembly or sub-assembly is permitted to be installed or mounted in place only when this requirement is satisfied.

**CLEARANCE LIMIT (maximum allowable clearance):** A running clearance between a shaft and its hole, for instance, will increase as the shaft or hole wears progressively. A clearance limit is provided for each critical or important clearance and, if such a clearance is found to have increased upon disassembling beyond the clearance limit specified for it, the parts associated with that clearance must be corrected to take a value within the limit.

**SERVICE LIMIT:** An extra stock is provided in some parts subject to wear, so that these parts may be repaired upon disassembling. There are many such parts that can be re-used repeatedly until their extra stock is used up by grinding, cutting, etc. A service limit is the minimum or the maximum dimension (thickness, diameter, etc.) specified for such a part. Any part found to have exceeded its service limit is not repairable: its serviceability has ended and a replacement part must be used in re-assembling.

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