

Shop Manual

PC300-2 PC300LC-2

HYDRAULIC EXCAVATOR

SERIAL NUMBERS 11001 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 2011 Komatsu
Printed in U.S.A.
Komatsu America Corp.

July 1992

CONTENTS

| | No. of page |
|-----------------------------------|-------------|
| 01 GENERAL | 01-1 |
| 10 ENGINE | |
| 11 STRUCTURE AND FUNCTION | 11-1 |
| 12 TESTING AND ADJUSTING | 12-1 |
| 13 DISASSEMBLY AND ASSEMBLY | 13-1 |
| 14 MAINTENANCE STANDARD | 14-1 |
| 20 POWER TRAIN | |
| 21 STRUCTURE AND FUNCTION | 21-1 |
| 23 DISASSEMBLY AND ASSEMBLY | 23-1 |
| 24 MAINTENANCE STANDARD | 24-1 |
| 30 UNDERCARRIAGE | |
| 31 STRUCTURE AND FUNCTION | 31-1 |
| 33 DISASSEMBLY AND ASSEMBLY | 33-1 |
| 34 MAINTENANCE STANDARD | 34-1 |
| 60 HYDRAULIC SYSTEM | |
| 61 STRUCTURE AND FUNCTION | 61-1 |
| 62 TESTING AND ADJUSTING | 62-1 |
| 63 DISASSEMBLY AND ASSEMBLY | 63-1 |
| 64 MAINTENANCE STANDARD | 64-1 |
| 70 WORK EQUIPMENT | |
| 71 STRUCTURE AND FUNCTION | 71-1 |
| 73 DISASSEMBLY AND ASSEMBLY | 73-1 |
| 74 MAINTENANCE STANDARD | 74-1 |
| 80 ELECTRICAL SYSTEM | 81-1 |

The affected pages are indicated by the use of the following marks. It is requested that necessary actions be taken to these pages according to the table below.

| Mark | Indication | Action required |
|------|------------------------|-----------------|
| ○ | Page to be newly added | Add |
| ● | Page to be replaced | Replace |
| () | Page to be deleted | Discard |

Pages having no marks are not revised.

LIST OF REVISED PAGES

| Mark | Page | Revision number | Mark | Page | Revision number | Mark | Page | Revision number | Mark | Page | Revision number | Mark | Page | Revision number |
|------|---------|-----------------|------|-------|-----------------|------|-------|-----------------|------|-------|-----------------|------|-------|-----------------|
| ● | 00- 1 | ① | | 01- 8 | | ○ | 13-17 | ① | | 21- 6 | | | 31- 3 | |
| ● | 00- 2 | ① | | 01- 9 | | ○ | 13-18 | ① | | 21- 7 | | | 31- 4 | |
| ○ | 00- 2-1 | ① | | 01-10 | | ○ | 13-19 | ① | ○ | 23- 1 | ① | | 31- 5 | |
| ○ | 00- 2-2 | ① | | 01-11 | | ○ | 13-20 | ① | ○ | 23- 2 | ① | | 31- 6 | |
| ○ | 00- 2-3 | ① | | 01-12 | | ○ | 13-21 | ① | ○ | 23- 3 | ① | | 31- 7 | |
| | 00- 3 | | | 01-13 | | ○ | 13-22 | ① | ○ | 23- 4 | ① | ● | 31- 8 | ① |
| | 00- 4 | | ● | 01-14 | ① | ○ | 13-23 | ① | ○ | 23- 5 | ① | ○ | 33- 1 | ① |
| | 00- 5 | | ● | 11- 1 | ① | ○ | 13-24 | ① | ○ | 23- 6 | ① | ○ | 33- 2 | ① |
| | 00- 6 | | | 11- 2 | | ○ | 13-25 | ① | ○ | 23- 7 | ① | ○ | 33- 4 | ① |
| | 00- 7 | | ● | 11- 3 | ① | ○ | 13-26 | ① | ○ | 23- 8 | ① | ○ | 33- 5 | ① |
| | 00- 8 | | | 11- 4 | | ○ | 13-27 | ① | ○ | 23- 9 | ① | ○ | 33- 6 | ① |
| | 00- 9 | | | 11- 5 | | ○ | 13-28 | ① | ○ | 23-10 | ① | ○ | 33- 7 | ① |
| | 00-10 | | | 11- 6 | | ○ | 13-29 | ① | ○ | 23-11 | ① | ○ | 33- 8 | ① |
| | 00-11 | | | 11- 7 | | ○ | 13-30 | ① | ○ | 23-12 | ① | ○ | 33-10 | ① |
| | 00-12 | | | 11- 8 | | ○ | 13-31 | ① | ○ | 23-13 | ① | ○ | 33-11 | ① |
| | 00-13 | | | 11- 9 | | ○ | 13-32 | ① | ○ | 23-14 | ① | | 34- 1 | |
| | 00-14 | | | 11-10 | | ○ | 13-33 | ① | ○ | 23-15 | ① | | 34- 2 | |
| | 00-15 | | ○ | 12- 1 | ① | ○ | 13-34 | ① | ○ | 23-16 | ① | | 34- 3 | |
| | 00-16 | | ○ | 12- 2 | ① | ○ | 13-35 | ① | ○ | 23-17 | ① | | 34- 4 | |
| | 00-17 | | ○ | 12- 3 | ① | ○ | 13-36 | ① | ○ | 23-18 | ① | | 34- 5 | |
| | 00-18 | | ○ | 12- 4 | ① | ○ | 13-37 | ① | ○ | 23-19 | ① | | 34- 6 | |
| | 00-19 | | ○ | 12- 5 | ① | ○ | 13-38 | ① | ○ | 23-20 | ① | | 34- 7 | |
| | 00-20 | | ○ | 12- 6 | ① | ○ | 13-39 | ① | ○ | 23-22 | ① | | 34- 8 | |
| | 00-21 | | ○ | 12- 7 | ① | ○ | 13-40 | ① | ○ | 23-23 | ① | ● | 61- 1 | ① |
| | 00-22 | | ○ | 12- 8 | ① | ○ | 13-41 | ① | ○ | 23-24 | ① | | 61- 2 | |
| | 00-23 | | ○ | 13- 1 | ① | ○ | 13-42 | ① | ○ | 23-25 | ① | | 61- 3 | |
| | 00-24 | | ○ | 13- 2 | ① | ○ | 13-43 | ① | ○ | 23-26 | ① | | 61- 4 | |
| | 00-25 | | ○ | 13- 3 | ① | ○ | 13-44 | ① | ○ | 23-27 | ① | | 61- 5 | |
| | 00-26 | | ○ | 13- 4 | ① | ○ | 13-45 | ① | ○ | 23-28 | ① | | 61- 6 | |
| | 00-27 | | ○ | 13- 5 | ① | ○ | 13-46 | ① | ○ | 23-29 | ① | | 61- 7 | |
| | 00-28 | | ○ | 13- 6 | ① | ○ | 13-47 | ① | ○ | 23-30 | ① | ● | 61- 8 | ① |
| | 00-29 | | ○ | 13- 8 | ① | ○ | 13-48 | ① | ○ | 23-31 | ① | ● | 61- 9 | ① |
| | 00-30 | | ○ | 13- 9 | ① | ○ | 13-49 | ① | ○ | 23-32 | ① | ● | 61-10 | ① |
| | 00-31 | | ○ | 13-10 | ① | ● | 14- 1 | ① | | 24- 1 | | | 61-11 | |
| | 01- 1 | | ○ | 13-11 | ① | ● | 14- 2 | ① | | 24- 2 | | ● | 61-12 | ① |
| | 01- 2 | | ○ | 13-12 | ① | | 21- 1 | | | 24- 3 | | | 61-13 | |
| ● | 01- 3 | ① | ○ | 13-13 | ① | ● | 21- 2 | ① | | 24- 4 | | | 61-14 | |
| ● | 01- 4 | ① | ○ | 13-14 | ① | | 21- 3 | | | 24- 5 | | | 61-15 | |
| ● | 01- 6 | ① | ○ | 13-15 | ① | | 21- 4 | | | 31- 1 | | | 61-16 | |
| ● | 01- 7 | ① | ○ | 13-16 | ① | | 21- 5 | | | 31- 2 | | | 61-17 | |

| Mark | Page | Revision number | Mark | Page | Revision number | Mark | Page | Revision number | Mark | Page | Revision number | Mark | Page | Revision number |
|------|-------|-----------------|------|--------|-----------------|------|-------|-----------------|------|--------|-----------------|------|--------|-----------------|
| | 61-18 | | | 61-74 | | ○ | 62-34 | ① | ○ | 63-47 | ① | ○ | 63-103 | ① |
| | 61-19 | | | 61-75 | | ○ | 62-35 | ① | ○ | 63-48 | ① | ○ | 63-104 | ① |
| | 61-20 | | | 61-76 | | ○ | 62-36 | ① | ○ | 63-49 | ① | ○ | 63-105 | ① |
| | 61-21 | | | 61-77 | | ○ | 62-37 | ① | ○ | 63-50 | ① | ○ | 63-106 | ① |
| | 61-22 | | | 61-78 | | ○ | 62-38 | ① | ○ | 63-51 | ① | ○ | 63-107 | ① |
| | 61-23 | | | 61-79 | | ○ | 62-40 | ① | ○ | 63-52 | ① | ○ | 63-108 | ① |
| | 61-24 | | | 61-80 | | ○ | 62-41 | ① | ○ | 63-53 | ① | ○ | 63-109 | ① |
| | 61-25 | | | 61-81 | | ○ | 62-42 | ① | ○ | 63-54 | ① | ○ | 63-110 | ① |
| | 61-26 | | | 61-82 | | ○ | 62-43 | ① | ○ | 63-55 | ① | ○ | 63-111 | ① |
| | 61-27 | | | 61-83 | | ○ | 62-44 | ① | ○ | 63-56 | ① | ○ | 63-112 | ① |
| | 61-28 | | | 61-84 | | ○ | 63- 1 | ① | ○ | 63-57 | ① | ○ | 63-113 | ① |
| | 61-29 | | | 61-85 | | ○ | 63- 2 | ① | ○ | 63-58 | ① | ○ | 63-114 | ① |
| | 61-30 | | | 61-86 | | ○ | 63- 3 | ① | ○ | 63-59 | ① | ○ | 63-115 | ① |
| | 61-31 | | | 61-87 | | ○ | 63- 4 | ① | ○ | 63-60 | ① | ○ | 63-116 | ① |
| | 61-32 | | ● | 61-89 | ① | ○ | 63- 5 | ① | ○ | 63-61 | ① | ○ | 63-117 | ① |
| | 61-33 | | | 61-90 | | ○ | 63- 6 | ① | ○ | 63-62 | ① | ● | 64- 1 | ① |
| | 61-34 | | | 61-91 | | ○ | 63- 7 | ① | ○ | 63-63 | ① | | 64- 2 | |
| | 61-35 | | | 61-92 | | ○ | 63- 8 | ① | ○ | 63-64 | ① | | 64- 3 | |
| | 61-36 | | | 61-93 | | ○ | 63- 9 | ① | ○ | 63-65 | ① | | 64- 4 | |
| | 61-37 | | | 61-94 | | ○ | 63-10 | ① | ○ | 63-66 | ① | | 64- 5 | |
| | 61-38 | | | 61-95 | | ○ | 63-11 | ① | ○ | 63-67 | ① | | 64- 6 | |
| | 61-39 | | ● | 61-96 | ① | ○ | 63-12 | ① | ○ | 63-68 | ① | | 64- 7 | |
| | 61-40 | | | 61-97 | | ○ | 63-13 | ① | ○ | 63-69 | ① | | 64- 8 | |
| | 61-41 | | | 61-98 | | ○ | 63-14 | ① | ○ | 63-70 | ① | | 64- 9 | |
| | 61-42 | | | 61-99 | | ○ | 63-15 | ① | ○ | 63-71 | ① | | 64-10 | |
| | 61-43 | | | 61-100 | | ○ | 63-16 | ① | ○ | 63-72 | ① | | 64-11 | |
| | 61-44 | | ○ | 62- 1 | ① | ○ | 63-17 | ① | ○ | 63-73 | ① | | 64-12 | |
| | 61-45 | | ○ | 62- 2 | ① | ○ | 63-18 | ① | ○ | 63-74 | ① | | 64-13 | |
| | 61-46 | | ○ | 62- 3 | ① | ○ | 63-19 | ① | ○ | 63-75 | ① | | 64-14 | |
| | 61-47 | | ○ | 62- 4 | ① | ○ | 63-20 | ① | ○ | 63-76 | ① | | 64-15 | |
| | 61-48 | | ○ | 62- 5 | ① | ○ | 63-21 | ① | ○ | 63-77 | ① | ● | 64-16 | ① |
| | 61-49 | | ○ | 62- 6 | ① | ○ | 63-22 | ① | ○ | 63-78 | ① | ● | 64-17 | ① |
| | 61-50 | | ○ | 62- 7 | ① | ○ | 63-23 | ① | ○ | 63-79 | ① | | 64-18 | |
| | 61-51 | | ○ | 62- 8 | ① | ○ | 63-24 | ① | ○ | 63-80 | ① | | 64-19 | |
| | 61-52 | | ○ | 62-10 | ① | ○ | 63-25 | ① | ○ | 63-81 | ① | | 64-20 | |
| | 61-53 | | ○ | 62-11 | ① | ○ | 63-26 | ① | ○ | 63-82 | ① | | 64-21 | |
| | 61-54 | | ○ | 62-12 | ① | ○ | 63-27 | ① | ○ | 63-83 | ① | | 64-22 | |
| | 61-55 | | ○ | 62-14 | ① | ○ | 63-28 | ① | ○ | 63-84 | ① | | 64-23 | |
| | 61-56 | | ○ | 62-15 | ① | ○ | 63-29 | ① | ○ | 63-85 | ① | ● | 64-24 | ① |
| ● | 61-57 | ① | ○ | 62-16 | ① | ○ | 63-30 | ① | ○ | 63-86 | ① | | 64-25 | |
| | 61-58 | | ○ | 62-17 | ① | ○ | 63-31 | ① | ○ | 63-87 | ① | | 64-26 | |
| | 61-59 | | ○ | 62-18 | ① | ○ | 63-32 | ① | ○ | 63-88 | ① | | 71- 1 | |
| | 61-60 | | ○ | 62-20 | ① | ○ | 63-34 | ① | ○ | 63-89 | ① | | 71- 2 | |
| ● | 61-61 | ① | ○ | 62-21 | ① | ○ | 63-35 | ① | ○ | 63-90 | ① | | 71- 3 | |
| ● | 61-62 | ① | ○ | 62-22 | ① | ○ | 63-36 | ① | ○ | 63-92 | ① | | 71- 4 | |
| ● | 61-63 | ① | ○ | 62-23 | ① | ○ | 63-37 | ① | ○ | 63-93 | ① | | 71- 5 | |
| ● | 61-64 | ① | ○ | 62-24 | ① | ○ | 63-38 | ① | ○ | 63-94 | ① | ○ | 73- 1 | ① |
| | 61-65 | | ○ | 62-25 | ① | ○ | 63-39 | ① | ○ | 63-95 | ① | ○ | 73- 2 | ① |
| | 61-66 | | ○ | 62-26 | ① | ○ | 63-40 | ① | ○ | 63-96 | ① | ○ | 73- 3 | ① |
| | 61-68 | | ○ | 62-27 | ① | ○ | 63-41 | ① | ○ | 63-97 | ① | ○ | 73- 4 | ① |
| | 61-69 | | ○ | 62-28 | ① | ○ | 63-42 | ① | ○ | 63-98 | ① | ○ | 73- 5 | ① |
| ● | 61-70 | ① | ○ | 62-29 | ① | ○ | 63-43 | ① | ○ | 63-99 | ① | ○ | 73- 6 | ① |
| | 61-71 | | ○ | 62-30 | ① | ○ | 63-44 | ① | ○ | 63-100 | ① | ○ | 73- 7 | ① |
| | 61-72 | | ○ | 62-31 | ① | ○ | 63-45 | ① | ○ | 63-101 | ① | ○ | 73- 8 | ① |
| | 61-73 | | ○ | 62-32 | ① | ○ | 63-46 | ① | ○ | 63-102 | ① | ○ | 73- 9 | ① |

| Mark | Page | Revision number | Mark | Page | Revision number | Mark | Page | Revision number | Mark | Page | Revision number | Mark | Page | Revision number |
|------|-------|-----------------|------|------|-----------------|------|------|-----------------|------|------|-----------------|------|------|-----------------|
| ○ | 73-10 | ① | | | | | | | | | | | | |
| ○ | 73-11 | ① | | | | | | | | | | | | |
| ○ | 73-12 | ① | | | | | | | | | | | | |
| ○ | 73-14 | ① | | | | | | | | | | | | |
| ○ | 73-15 | ① | | | | | | | | | | | | |
| ○ | 73-16 | ① | | | | | | | | | | | | |
| | 74- 1 | | | | | | | | | | | | | |
| | 74- 2 | | | | | | | | | | | | | |
| | 74- 3 | | | | | | | | | | | | | |
| ● | 81- 1 | ① | | | | | | | | | | | | |
| | 81- 2 | | | | | | | | | | | | | |
| | 81- 3 | | | | | | | | | | | | | |
| ● | 81- 4 | ① | | | | | | | | | | | | |
| ● | 81- 5 | ① | | | | | | | | | | | | |

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

<https://shopservicemanual.com/>

Service Manuals from 2\$