

Shop Manual

HM400-2

ARTICULATED DUMP TRUCK

SERIAL NUMBERS HM400-2 2001 and up
A11001 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 2005 Komatsu
Printed in U.S.A.
Komatsu America Corp.

September 2006

ARTICULATED DUMP TRUCK

HM400-2

Machine model Serial number

HM400-2 2001 and up

00 Index and foreword

Index

| | |
|---------------------------------|---|
| Composition of shop manual..... | 2 |
| Table of contents | 4 |

Composition of shop manual

The contents of this shop manual are shown together with Form No. in a list.

Note 1: Always keep the latest version of this manual in accordance with this list and utilize accordingly.

The marks shown to the right of Form No. denote the following:

○: New issue (to be filed additionally) ●: Revision (to be replaced for each Form No.)

Note 2: This shop manual can be supplied for each Form No.

Note 3: To file this shop manual in the special binder for management, handle it as follows:

- Place a divider on the top of each section in the file after matching the Tub No. with No. indicated next to each Section Name shown in the table below:
- File overview and other materials in sections in the order shown below and utilize them accordingly.

| Section Title | Form Number |
|---|---------------|
| Shop Manual, contents binder, binder label and tabs | SEN00239-03 |
| 00 Index and foreword | SEN00511-03 |
| Index | SEN00512-03 ● |
| Foreword and general information | SEN00513-00 |
| 01 Specification | SEN00514-00 |
| Specification and technical data | SEN00515-00 |
| 10 Structure, function and maintenance standard | SEN00516-00 |
| Engine and cooling system | SEN00517-00 |
| Power train system, Part 1 | SEN00518-00 |
| Power train system, Part 2 | SEN00519-00 |
| Steering system | SEN00520-00 |
| Brake system | SEN00521-00 |
| Undercarriage and frame | SEN00522-00 |
| Hydraulic system | SEN00523-00 |
| Cab and its attachments | SEN00524-00 |
| Electrical system, Part 1 | SEN00525-00 |
| Electrical system, Part 2 | SEN00526-00 |
| Electrical system, Part 3 | SEN00527-00 |
| 20 Standard value table | SEN00528-01 |
| Standard service value table | SEN00915-01 |
| 30 Testing and adjusting | SEN00529-01 |
| Testing and adjusting, Part 1 | SEN00916-01 |
| Testing and adjusting, Part 2 | SEN00917-01 |
| Testing and adjusting, Part 3 | SEN00918-01 |
| 40 Troubleshooting | SEN00530-00 |
| General information on troubleshooting | SEN01107-00 |
| Troubleshooting by failure code, General | SEN01262-00 |
| Troubleshooting by failure code, Part 1 | SEN01108-00 |
| Troubleshooting by failure code, Part 2 | SEN01109-00 |
| Troubleshooting by failure code, Part 3 | SEN01110-00 |

| | |
|---|---------------|
| Troubleshooting by failure code, Part 4 | SEN01111-00 |
| Troubleshooting by failure code, Part 5 | SEN01112-00 |
| Troubleshooting by failure code, Part 6 | SEN01113-00 |
| Troubleshooting by failure code, Part 7 | SEN01114-00 |
| Troubleshooting by failure code, Part 8 | SEN01115-00 |
| Troubleshooting for electrical system (E-mode) | SEN01116-00 |
| Troubleshooting of hydraulic and mechanical system (H-mode) | SEN01117-00 |
| Troubleshooting of engine (S-mode) | SEN01118-00 |
| | |
| 50 Disassembly and assembly | SEN00531-00 |
| General information on disassembly and assembly | SEN01442-00 ○ |
| Engine and cooling system | SEN01443-00 ○ |
| Power train, Part 1 | SEN01444-00 ○ |
| Power train, Part 2 | SEN01445-00 ○ |
| Power train, Part 3 | SEN01446-00 ○ |
| Undercarriage and frame | SEN01447-00 ○ |
| Hydraulic system | SEN01448-00 ○ |
| Cab and its attachments | SEN01449-00 ○ |
| Electrical system | SEN01450-00 ○ |
| | |
| 90 Diagrams and drawings | SEN00532-01 |
| Hydraulic circuit diagram | SEN00533-00 |
| Electrical circuit diagram | SEN00534-01 |

Table of contents

| | |
|---|-------------|
| 00 Index and foreword | |
| Index | SEN00512-03 |
| Organization list of the shop manual | 2 |
| Table of contents..... | 4 |
| Foreword and general information | SEN00513-00 |
| Foreword and general information | 2 |
| Safety notice | 2 |
| How to read the shop manual | 6 |
| Explanation of terms for maintenance standard | 8 |
| Handling electric equipment and hydraulic component | 10 |
| How to read electric wire code..... | 18 |
| Method of disassembling and connecting push-pull type coupler | 21 |
| Standard tightening torque table..... | 24 |
| Conversion table..... | 28 |
| 01 Specification | |
| Specification and technical data | SEN00515-00 |
| Specification and technical data | 2 |
| Specification drawings | 2 |
| Specifications..... | 3 |
| Weight table | 6 |
| Fuel, coolant and lubricants..... | 7 |
| 10 Structure, function and maintenance standard | |
| Engine and cooling system | SEN00517-00 |
| Engine and cooling system | 2 |
| Radiator, oil cooler, aftercooler | 2 |
| Output shaft | 3 |
| Power train system, Part 1 | SEN00518-00 |
| Power train system, Part 1 | 2 |
| Power train skeleton | 2 |
| Drive shaft..... | 6 |
| Torque converter and transmission hydraulic piping..... | 8 |
| Torque converter..... | 10 |
| Transmission..... | 16 |
| Transmission control valve | 35 |
| ECMV | 36 |
| Main relief, torque converter relief valve..... | 43 |
| Power train system, Part 2 | SEN00519-00 |
| Power train system, Part 2 | 2 |
| Axle..... | 2 |
| Differential..... | 6 |
| Limited slip differential | 20 |
| Final drive | 24 |
| Steering system | SEN00520-00 |
| Steering system..... | 2 |
| Steering column | 2 |
| Brake system | SEN00521-00 |
| Brake system..... | 2 |
| Brake piping..... | 2 |
| Brake valve | 4 |
| Accumulator charge valve | 7 |

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

<https://shopservicemanual.com/>

Service Manuals from 2\$