SHOP

KOMATSU

HD200-2

MACHINE MODEL

SERIAL No.

HD200-2

1002 and up

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
0	Page to be newly added	Add
•	Page to be replaced	Replace
()	Page to be deleted	Discard

Pages having no marks are those previously revised or made additions.

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)		12- 1	(1)		13-29	①		13-70	(1)	-	22- 3	-
	00- 2	1		12- 3	(1)		13-30	<u>(1)</u>		13-71	①		22- 4	(1)
	00- 2-	1 ①		12- 4	1		13-31	①		13-72	1		22- 5	~
	00- 2-	2 (i)		12- 5	1		13-32	①		13-73	1		22- 6	1
	00- 3	1		12- 6	(<u>1</u>)		13-33	1		13-74	(i)		22- 7	1
	00- 4	(i)		12- 7	1		13-34	(1)		13-75	(1)		22- 8	(1)
	00- 5	(1)		12- 8	1		13-35	1		13-76	<u>(i)</u>			0
	00- 6	1		12- 9	1		13-36	1					23- 1	① ①
	00- 7	(<u>1</u>)		12-10	1		13-37	(1)			-		23- 3	
	8 -00	(1)		12-11	1		13-38	(1)		21- 1	(1)		23- 4	400
	00- 9	(1)		12-12	1		13-40	(1)		21- 3	<u>(1)</u>		23- 5	
	00-10	①					13-41	(1)		21- 4	(1)		23- 6	
	00-11	(i)					13-42	①		21- 5	①		23- 7	
	00-12	1		13- 1	1		13-43	(I)		21- 6	①		23- 8	
	00-13	(<u>1</u>)		13- 3	<u>(1)</u>		13-44	(1)		21- 7	(1)		23- 9	
				13- 4	1)		13-45	1		21- 8	①		23-10	
	01- 1	(1)		13- 5	1		13-46	(1)		21-10	1		23-11	high.
	01- 3	(<u>i</u>)		13- 6	①		13-47	1		21-11	(<u>1</u>)		23-12	~
	01- 4	(I)	i	13- 8	(1)		13-48	1		21-12	1		23-13	
	01- 5	①		13- 9	(i)		13-50	①		21-13	1		23-14	ă
	01-6	(i)		13-10	<u>(1)</u>		13-51	1		21-14	(1)		23-15	
	01- 7	①		13-11	1		13-52	(1)		21-15	1		23-16	~
	01-8	(I)		13-12	(I)		13-53	(1)	1	21-16	(j)		23-17	~
	01- 9	(1)		13-13	①		13-54	<u>(1)</u>		21-17	(j)		23-18	-200
	01-10	(1)		13-14	(J)		13-55	①		21-18	(1)		23-19	200
	01-11	①		13-15	1		13-56	(1)		21-19	①		23-20	r^a
				13-16	(1)		13-57	(I)		21-20	(<u>1</u>)		23-21	
				13-17	(1)		13-58	(<u>1</u>)		21-21	(1)		23-22	
	11- 3	(1)	1	13-18	<u>(1)</u>		13-59	<u>(I)</u>		21-22	1		23-23	
	11- 4	(1)		13-19	(I)		13-60	①		21-23	140		23-24	
	11- 5	(1)		13-20			13-61	①		21-24	507	1	23-25	
	11- 6	1		13-21			13-62	①		21-25	①		23-26	
	11- 7	(1)	1	13-22			13-63	(i)		21-26	2.44		23-27	
	11-8	①		13-23	(1)		13-64	①		21-27	~		23-28	
	11- 9	1		13-24			13-66	(1)		21-28	(1)		23-29	
	11-10	(<u>1</u>)		13-26			13-67	(1)					23-30	
	11-11	(<u>1</u>)		13-27	<u>(1)</u>		13-68	①			P. No.		23-32	
	11-12	(1)		13-28	1		13-69	(1)		22- 1	(1)		23-33	3 ①

Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number
	23-34	1		23-89	1		41- 1	1		43-24	1		51-14	1
	23-35	1		23-90	①		41- 3	(1)		43-25	①		51-15	(1)
	23-36	1		23-91	1		41- 4	1		43-26	①		51-16	<u></u>
	23-37	1		23-92	①		41- 5	①		43-28	1		51-17	1
	23-38	1		23-93	<u>(1)</u>		41- 6	(i)		43-29	<u>(1)</u>		51-18	<u>(1)</u>
	23-39	1		23-94	①		41- 7	(<u>1</u>)	i	43-30	<u>(1)</u>			
	23-40	1		23-95	1		41- 8	<u>(1)</u>		43-32	<u>(1)</u>		53- 1	1
	23-42	①		23-96	1)		41- 9	<u>(1)</u>	Į.	43-33	<u>(1)</u>		53- 3	1
	23-43	1		23-97	1		41-10	(1)	1	43-34	(I)		53- 4	<u>(1)</u>
	23-44	1		23-98	①		41-11	<u>(1)</u>	3	43-35	1		53- 6	1
	23-45	1		23-99	(1)		41-12	(i)	1	43-36	<u>(1)</u>		53- 7	(I)
	23-46	①		23-100) <u>(</u>)		41-13	<u>(1)</u>	1	43-37	<u>0</u>		53 -8	1
	23-47	1		23-10	2000		41-14	$\stackrel{\circ}{\mathbb{I}}$	į.	43-38	(i)		53- 9	<u>(1)</u>
	23-48	1		23-102			41-15	<u>(1)</u>	}	43-39	<u>(1)</u>		53-10	①
	23-49	(<u>1</u>)		23-103			41-16	<u>(1)</u>	1	43-40	1		53-11	① ①
	23-50	1		23-104			41-17	<u>(1)</u>	1	43-41	① ①		53-12	① ①
	23-51	<u>(i)</u>		23-106			41-18	<u>(i)</u>		43-42	1		53-14	1
	23-52	<u>(1)</u>		23-107		1	41-19	<u>(i)</u>	i	43-43	1		53-15	
	23-53	<u>(1)</u>		23-108				1009	1	43-44	1		53-16	① ①
	23-54	<u>(i)</u>		23-109			42- 1	(1)	1	43-45	① ①		53-17	1
	23-55	(i)		23-110		1	42- 3	①	1	43-46	① ①		53-17	(1)
	23-56	<u>(1)</u>		23-11			42- 4	1	1	43-40			55-10	Œ)
	23-57	① ①		23-112	~~		42- 5	(1)		43-47	①		61 1	1)
	23-58	① ①		23-112			42- 6	①			① ②		61- 1	1)
	23-59	(I)		23-114			42- 7	(1)		43-50	①		61- 3	
	23-60						42- 8	(Î)		43-51	①		61- 4	①
	23-60	① ①		23-115			42- 9	①		43-52	①		61- 5	① ①
		① ①		23-116			42-10	①		43-53	①		61- 6	1
	23-63	① ①		23-117			42-11	1		43-54	①		61- 7	1
	23-64	①		23-118			42-12	(<u>i</u>)	•	43-55	1		61-8	1
	23-65	①		23-119			42-13	(i)			(a)		61- 9	①
	23-66	①		23-120	~~					44- 1	①		61-10	1
	23-67	①		23-121	***	1	43- 1	(1)		44- 3	①		61-11	1
	23-68	① •		23-122	-	f	43- 3	1		44- 4	1			~
	23-69	①		23-123			43- 4	① 	i	44- 5	(1)		62- 1	①
	23-70	1		23-124			43- 5	①		44- 6	①		62- 3	①
	23-71	①		23-125	5 ①		43- 6	(1)		44- 8	1		62- 4	1
	23-72	1			~	•	43- 7	<u>(1)</u>		44- 9	1		62- 5	1
	23-73	①		24- 1	① 		43- 8	1		44-10	1		62- 6	1
	23-74	1		24- 3	①	ł	43- 9	1)		44-11	1		62- 7	1
	23-75	1		24- 4	<u>(1)</u>	1	43-10	1		44-12	1		62- 8	1
	23-76	1		24- 5	1)		43-11	(<u>1</u>)						
	23-77	1)		24 - 6	(1)		43-12	(<u>1</u>)		51- 1	1		63- 1	1
	23-78	1		24- 7	1		43-13	1		51- 3	1		63- 3	1
	23-79	1)		24- 8	1		43-14	1		51- 4	1		63- 4	1
	23-80	1		24- 9	1)		43-15	(<u>1</u>)		51- 5	1		63- 5	1
	23-81	1		24-10	1		43-16	1		51- 6	1		63- 6	1
	23-82	(i)		24-11	1		43-17	1		51- 7	1		63- 7	①
	23-83	1)		24-12	1		43-18	1		51-8	1		63-8	1
	23-84	①		24-13	1)		43-19	1		51- 9	1		63- 9	1
	23-85	1)		23-14	①		43-20	(i)		51-10	1		63-10	<u> </u>
	23-86	①		24-15	1		43-21	(1)		51-11	①		63-12	1
	23-87	(<u>1</u>)		24-16	①		43-22	1		51-12	1		63-14	1
	23-88	(1)					43-23	1		51-13	①		63-15	1

H D 2 0 0

Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number
	63-16	1												
	63-17	(1)												
	63-18	(1)												
	63-20	1												
	63-21	1												
	63-22	<u>(1)</u>										and plate		
	63-23	1												
	63-24													
	63-25													
	63-26	1)												
	64- 1	1												
	64- 3													
	64- 4													
	64- 5													
	64- 6													
	64- 7													
	64- 8	1)												
	71- 1	(<u>1</u>)												
	71- 3	1												
	71- 4	(<u>1</u>)												
	71- 5	①												
	71- 6	(1)												
	71- 7	1												
	72- 1	①												
	72- 3													
	72- 4													
	72- 5													
	72- 6	1												
	73- 1													
	73- 3		Ì									1		
	73- 4													
	73- 5	1												
	74- 1								A-A-A-MAN					
	74- 3	(1)												
	74- 4	1												
	91- 1	①												
	91- 3	(i)												
	91- 4	<u> </u>										:		
	91- 5	<u>(1)</u>												
	91- 6	(I)												
	91- 7													

CONTENTS

GEN	No. o	of page
01	GENERAL INSTRUCTION	01-1
ENG	SINE	
11	STRUCTURE AND FUNCTION	11-1
12	TESTING AND ADJUSTING	12-1
13	DISASSEMBLY AND ASSEMBLY	13-1
POV	VER TRAIN	
21	STRUCTURE AND FUNCTION	21-1
22	TESTING AND ADJUSTING	22-1
23	DISASSEMBLY AND ASSEMBLY	23-1
24	MAINTENANCE STANDARD	24-1
STE	EERING	
41	STRUCTURE AND FUNCTION	41-1
42	TESTING AND ADJUSTING	42-1
43	DISASSEMBLY AND ASSEMBLY	43-1
44	MAINTENANCE STANDARD	44-1
AIR	SYSTEM	
51	STRUCTURE AND FUNCTION	51-1
53	DISASSEMBLY AND ASSEMBLY	53-1
HYC	PRAULIC CONTROL	
61	STRUCTURE AND FUNCTION	61-1
62	TESTING AND ADJUSTING	62-1
63	DISASSEMBLY AND ASSEMBLY	63-1
64	MAINTENANCE STANDARD	64-1
WOF	RK EQUIPMENT	
71	STRUCTURE AND FUNCTION	71-1
72	TESTING AND ADJUSTING	72-1
73	DISASSEMBLY AND ASSEMBLY	73-1
74	MAINTENANCE STANDARD	74-1
ОТН	HERS	
	T. T. T. T. T. L. C. V. C. T. T. A.	

IMPORTANT SAFETY NOTICE

Proper service and repair is extremely important for the safe operation of machine. The service and repair techniques recommended by Komatsu and described in this manual are both effective and safe methods of operation. Some of these operations require the use of tools specially designed by Komatsu for the purpose.

To prevent injury to workers, the symbols and are used to mark safety precautions in this manual. The cautions accompanying these symbols should always be followed carefully. If any dangerous situation arises or may possibly arise, first consider safety, and take the necessary actions to deal with the situation.

00-4

FOREWORD

This shop manual has been prepared as an aid in improving the quality of repairs by giving the serviceman an accurate understanding of the product and by showing him the correct way to perform repairs and make judgements. Make sure you understand the contents of this manual and use it to full effect at every availably opportunity.

Organization

This shop manual mainly contains the necessary technical information for operations performed in a service workshop.

For ease of understanding, the manual is divided into chapters for each main group of components; these chapters are further divided into the following sections.

Structure and function

This section explains the structure and function of each component. It serves not only to give an understanding of the structure, but also serves as reference material for troubleshooting.

Testing and adjusting

This section explains checks to be made before and after performing repairs, as well as adjustments to be made at completion of the checks and repairs. Troubleshooting charts correlating "Diagnoses" to "Causes" are also included in this section.

Disassembly and assembly

This section explains the order to be followed when removing, installing, disassembling or assembling each component, as well as precautions to be taken for these operations.

Maintenance standards

This section gives the judgement standards when inspecting disassembled parts.

USING THE SHOP MANUAL

Volumes

Shop manuals are issued for carrying out repairs.

They are divided as follows:

Chassis volume: issued for every machine model

Engine volume: issued for each engine series

Electrical volume

Fuel system volume: each issued as one volume to cover all models

Attachments volume:

In addition, the following volumes are issued for high level rebuilding techniques to cover all models.

Engine volume

Undercarriage volume

The following volumes are issued for inspection and tests after repairs:

Guidance for reusable parts volume

Bench test methods volume

These various volumes are designed to avoid duplicating the same information. Therefore to deal with all repairs for any model, it is necessary to have the shop manual for that model as well as the relevant engine volume, the fuel system volume and the electrical volume.

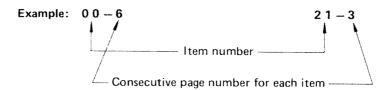
This shop manual is chassis volume.

Distribution and Updating

Recipients of shop manuals are recorded at the Komatsu Head Office. Any additions, amendments or other changes will be sent to all recipients without fail, so someone should be appointed to be in charge of manuals. In this way, pages can be added or removed immediately and the manuals kept up to date and easy to use.

Filing Method

- 1) File under the manual title file printed on the bottom of the page.
- 2) Method of taking out the pages for filing is as follows: First order each item number starting with the lowest, and next order according to the consecutive page number for each item.



 Additional pages: Additional pages are indicated by a dash (-) and number after the page number. File as in the example.

Besides this, when necessary, information will be written in the filing ring hole's margin. Look when filing.

Revised Edition Mark

When a manual is revised, a revision number is placed within a circle and printed on the bottom inside corner of the pages to distinguish it from the old manual. Therefore, higher circled numbers supersede lower ones.

Revisions

A table listing revisions and revised pages to the present is printed on the back of the title page, so when there is a revision, revise the title page also, and use it to keep the file in order.

FOREWORD

Symbols

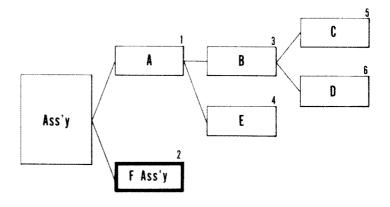
So that the shop manual can be of sufficient practical use, we have marked important places for safety and quality with the following symbols.

SYMBOL	ITEM	REMARKS					
\bigoplus	Security	This indicates work that requires special precautions for the security of the machine when assembling.					
?	Safety	Special safety precautions are necessary when performing the work.					
		Extra special safety precautions are necessary when performing the work because it is under internal pressure.					
*	Caution	Special technical precautions or other precautions for preserving standards are necessary when performing the work.					
kg	Weight	Weight of parts or systems. Caution necessary when selecting hoisting wire, or when working posture is important, etc.					
€ kgm	Tighten- ing torque	Places that require special care with the tightening torque when assembling.					
	Coat	Places to be coated with adhesives, etc. when assembling.					
47	Oil, water	Places for filling with oil, etc. Oil capacity.					
*	Drain	Places for draining oil, etc. Quantity to be drained.					

Network Diagrams

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

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



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

Troubleshooting Chart

As shown below, the symptoms relating to a particular trouble are described in the line designated "Diagnoses". The cause of the trouble is then correlated under the "Cause" column and is shown marked.

Problem No. 1 Reduced tractive power or slow travel speed.	C	ause	s
Diagnoses	Oil leaks in torque converter	Air suction in the hydraulic pump	
Torque converter oil pressure gauge shows lower than normal pressure (normal 3 \sim 4.8 kg/cm 2)	0	0	0
Transmission oil pressure gauge shows lower than normal pressure. (normal 20 ~ 23 kg/cm²)		0	
	0		•

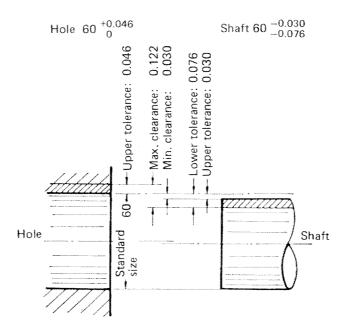
DEFINITION

Standard Size, Tolerance The dimensions of finished parts each differ a little. Therefore, when determining the finished dimensions of parts, a dimension that will be standard is determined provisionally, and then the difference allowed from it is indicated. The former is called the **standard size**, and the latter the **tolerance**.

The way to show this is by a plus or a minus sign with the tolerance in smaller numerals to the right the standard size.

Example: $120^{-0.022}_{-0.126}$ (The same meaning as 119.874 - 119.978)

Moreover, when expressing the dimensions of a hole and the shaft that goes inside it, for the sake of convenience, the standard size for the hole and the shaft usually taken as the same, and the tolerances changed to indicate the tightness of the fit. For example, the fit of revolving shaft is indicated as follows, and is shown in the drawing.



00-10 H D 2 0 0

Standard Size

This is the standard value at the time of design, the finished dimension of new parts.

Repair Limit

This is the limit in dimension up to which the part can be used. (The size of parts changes due to wear or distortion during use). When parts exceed the repair limit, they must be repaired or replaced as specified.

Standard Clearance

This is the clearance between two new parts after assembly, shown as a range between minimum clearance and maximum clearance. In general, parts are adjusted to this clearance after repair.

Clearance Limit

This is the maximum clearance allowed between parts. (The clearance increases due to wear, etc. during use.)

When the clearance exceeds the clearance limit, the parts must be repaired or replaced as specified.

Maintenance Standard

This is the number given to items in diagrams of individual components. The same number is given in the left-hand column for ease of identification.

					Unit: mm
No.	Check item		Criteria		Remedy
1	-	Serial No.	Standard size	Repair limit	_
•					

-		-						Unit: mn
No.	Check item			Crin	teria			Remedy
		Serial	Standard	Tole	rance	Standard	Clearance	
		No.	size	Shaft	Hole	clearance		
10								THE REAL PROPERTY AND ADDRESS OF THE PERTY
			1		<u> </u>			

KOMATSU SEALANT

Г	***************************************			Ţ		
Precautions	(1) Keep sealent away from flames. (2) Keep sealent in a closed vessel and store in a cool and dark place.	(1) Keep sealent away from flames. (2) Keep sealent in a closed vessel and store in a cool and dark place.	(1) Some persons may be allergic to this agent. Be sure to wash your hands immediately after using the agent.	(1) Keep lubricant in a closed vessel.	(1) Do not aim the spray at the human body. (2) This spray in HIGHLY IN-FLAMMABLE. Never bring it in the vicinity of an open fire. (3) Do not use a large quantity of spray in a room with marking fire. (4) Do not store at 40°C or above. (5) Never put an empty spary can into a fire.	(1) Be careful not to confuse the proper winding direction of sealing tape. Sealing, tape should not slacken when tightening the screw.
How to Use	(1) Before applying sealent, thoroughly remove water, oil and (2) The sealing effect will increase considerably when sealent is applied to both the mating surfaces. (3) Dry the applies sealent for 4 to 6 minutes before joining the mating surfaces.	(1) Before applying sealent, throughly remove water, oil and grease from the surface to be coated. (2) The sealing effect will increase considerably when sealent is applied to both the mating surfaces. (3) Dry the applied sealent for 4 to 6 minutes before joining the maint surfaces.	 (1) Before applying tighter, thoroughly remove water, oil and grease from surfaces to be coated. (2) Apply 2 to 3 drops of tightener to the threads. (3) Immediately tighten the bolt, and its threads will soon stick. 	(1) Wipe clean the surface to be coated with lubricant. (2) On repairing the machine, apply a thin, even coat of lubricant to the fitting parts using a brush or spatula.	(1) Spray the part:	(1) Wind sealing tape on the threaded part of a plug or flange. (2) Screw in the plug or flange with the sealing tape left wound.
Purpose and Application	Prevents leakage of gas from valves, plugs, threads, gaskets, joint seats and oil seats of the cylinder head and oil pan housing.	Use when installing the final drive case and fransmission case, etc. Surface coated with this sealent will not require a gasket.	Used for fixing bolts, plugs and screws.	(1) Prevents sticking and seizing during assembly and break-in. (2) Facilitates disassembly. Typical application: Press-fitted bearings, key and pins.	Usable for wide application such as rustproofing, lubrication, and moisture proofing, as well as for loosening rusted screws.	Prevents oil leakage from plugs and flanges in hydraulic circuits.
Working temperature			—50° to +120°C	–20° to +400°C		
Komatsu code	LG-1	LG4	LT-2	LM.P (MoS ₂)		
Komatsu Sealent	GASKET SEALENT (Liquid gasket)	METAL SEALANT	THREAD TIGHTENER (Adhesives)	MOLY LUBRICANT (Molybdenum) displphide	RUST PROOF SPRAY	SEALING TAPE

00-12 HD200

ELECTRIC WIRE CODE

In the wiring diagrams, various colors and symbols are employed to indicate thickness of wires with black sprite.

Example: 05WB indicates a cable having a nominal number 05 and white coating

Classification by thickness

Nominal		Copper wire		Cable O.D.	Current rating	01	
number	Number strands	Dia, of strand (mm)	Cross section (mm ²)	(mm)	(A)	Circuits applied	
01	11	0.32	0.88	2.4	12	Starting, lighting, signal and instrument	
02	26	0.32	2.09	3.1	20	Lighting, signal and instrument	
05	65	0.32	5.23	4.6	37	Charging and signal	
15	84	0.45	13.36	7.0	59	Starting (Glow plug)	
40	85	0.80	42.73	11.4	135	Starting	
60	127	0.80	63.84	13.6	178	Starting	
100	217	0.80	109.1	17.6	230	Starting	

Classification by color and code

Pri- ority	Classi- ficatio		Starting	Charging	Lighting	Signal	Instrument	Other
	Primary	Code	В	W	R	G	Υ	L
1	Prin	Color	Black	White	Red	Green	Yellow	Blue
2		Code	BW	WR	RW	GW	YR	LW
2		Color	Black & White	White & Red	Red & White	Green & White	Yellow & Red	Blue & White
3		Code	BY	WB	RB	GR	YB	LR
3	Auxiliary	Color	Black & Yellow	White & Black	Red & Black	Green & Red	Yellow & Black	Blue & Red
	Auxi	Code	8R	WL	RY	GY	YG	LY
4		Color	Black & Red	White & Blue	Red & Yellow	Green & Yellow	Yellow & Green	Blue & Yellow
5		Code		WY	RG	GB	YL	LB
5		Color	AND REAL PROPERTY OF THE PROPE	White & Yellow	Red & Green	Green & Black	Yellow & Blue	Blue
6		Code		WG	RL	GL	YW	
Ō		Color		White & Green	Red & Blue	Green & Blue	Yellow & White	

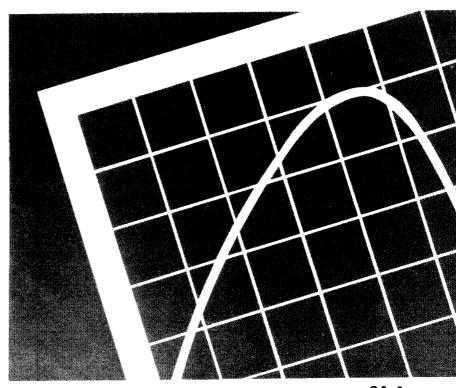
SHOP MANUAL

HD200-2

Serial Number: 1002 and up

OI GENERAL

GENERAL INSTRUCTION

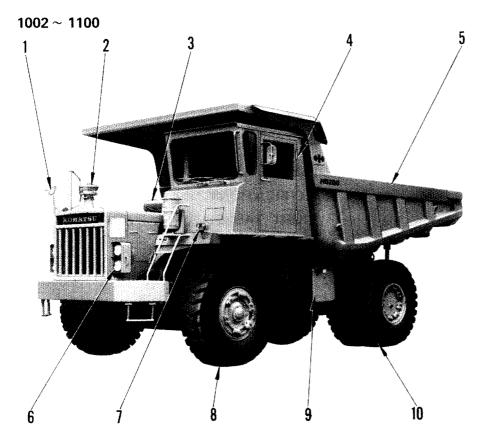


GENERAL INSTRUCTION

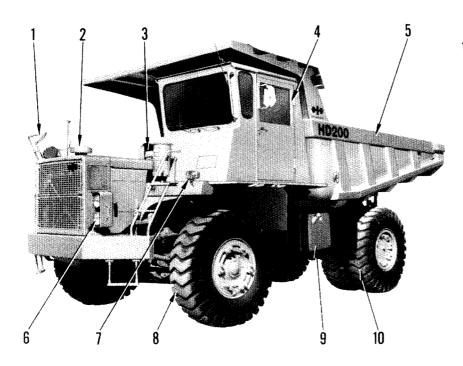
GENERAL VIEW	01 - 4
DIMENSION	01 - 6
SPECIFICATIONS	01 - 8
WEIGHT TABLE	01-10

GENERAL INSTRUCTION

GENERAL VIEW

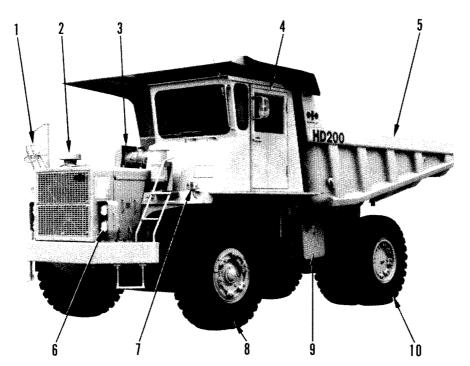


1101 ~ 1214



- 1. Under-mirror
- 2. Precleaner
- 3. Air reservoir
- 4. Operator's compartment
- 5. Dump body
- 6. Head lamp
- 7. Side lamp, Turn signal lamp
- 8. Front wheel
- 9. Hydraulic tank
- 10. Rear wheel

1215 and up



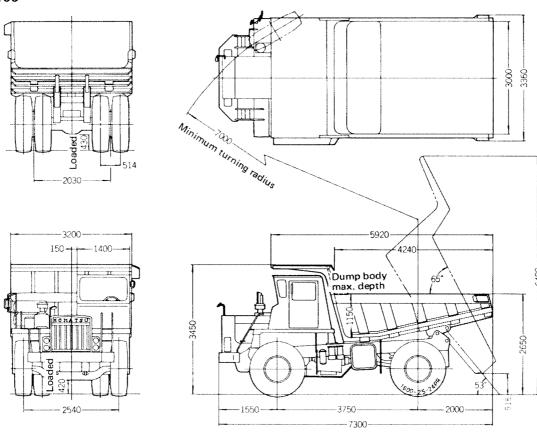
- 1. Under-mirror
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Full download: http://manualplace.com/download/komatsu-rigid-dump-trucks-hd200-2-shop-manual/

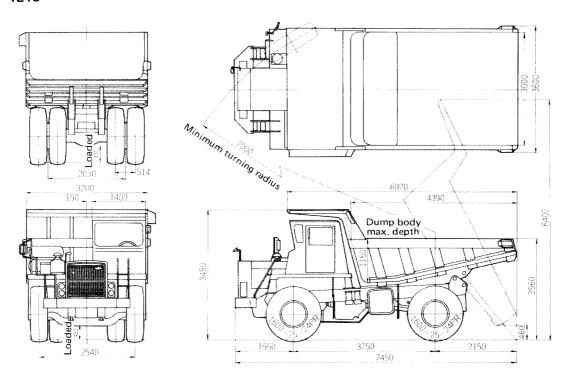
GENERAL GENERAL INSTRUCTION

DIMENSION

1002 ~ 1100



1101 ~ 1213



01-6