CEAM031701

Operation & Maintenance Manual

WA270-8

WHEEL LOADER

SERIAL NUMBERS WA270-8 A28001 and up

ENGINE 6D107E-3

July 2016

KOMATSU®

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TABLE OF CONTENTS

FOREWORD 1-1
BEFORE READING THIS MANUAL 1-2
SAFETY INFORMATION 1-3
INTRODUCTION 1-4
MAIN USE OF MACHINE 1-4
DIRECTIONS OF MACHINE 1-4
VISIBILITY FROM OPERATOR'S SEAT 1-4
ENGINE TECHNOLOGY TO CONFORM EXHAUST GAS EMISSION 1-5
PRODUCT INFORMATION 1-6
LOCATION OF PRODUCT IDENTIFICATION NUMBER (PIN)/MACHINE SERIAL NO. PLATE 1-6
LOCATION OF ENGINE NUMBER PLATE 1-6
SERVICE METER LOCATION 1-7
YOUR MACHINE SERIAL NUMBERS AND DISTRIBUTOR 1-7
SAFETY 2-1
SAFETY 2-2
SAFETY LABELS 2-4
LOCATION OF SAFETY LABELS 2-5
CONTENTS OF SAFETY LABELS 2-7
GENERAL PRECAUTIONS COMMON TO OPERATION AND MAINTENANCE 2-15
PRECAUTIONS BEFORE STARTING OPERATION 2-15
PREPARATIONS FOR SAFE OPERATION 2-15
PRECAUTIONS TO PREVENT FIRE 2-16
PRECAUTIONS WHEN GETTING ON OR OFF MACHINE 2-18
DO NOT GET CAUGHT 2-20
PRECAUTIONS RELATED TO PROTECTIVE STRUCTURES 2-21
UNAUTHORIZED MODIFICATION 2-21
PRECAUTIONS RELATED TO ATTACHMENTS AND OPTIONS 2-21
PRECAUTIONS WHEN RUNNING ENGINE INSIDE BUILDING 2-21
PRECAUTIONS FOR OPERATION 2-22
PRECAUTIONS FOR JOBSITE 2-22
START ENGINE 2-24
PRECAUTIONS FOR OPERATION 2-26
PRECAUTIONS FOR TRANSPORTATION 2-31
TOWING AND BEING TOWED 2-32
PRECAUTIONS FOR MAINTENANCE 2-33
PRECAUTIONS BEFORE STARTING INSPECTION AND MAINTENANCE 2-33
PRECAUTIONS FOR CHECK AND MAINTENANCE 2-36
TIRES 2-41
PRECAUTIONS FOR DEF 2-42
GENERAL CHARACTER AND PRECAUTIONS FOR HANDLING 2-42
PRECAUTIONS FOR ADDING 2-42
PRECAUTIONS FOR STORING 2-42
PRECAUTIONS FOR FIRE HAZARD AND LEAKAGE 2-42
OTHER PRECAUTIONS 2-42
OPERATION 3-1
GENERAL VIEW 3-2
MACHINE EQUIPMENT NAME 3-2
CONTROLS AND GAUGES NAMES 3-3
OTHER EQUIPMENT NAME 3-7
EXPLANATION OF COMPONENTS 3-10
EXPLANATION OF MACHINE MONITOR EQUIPMENT 3-10
SWITCHES 3-90
CONTROL LEVERS AND PEDALS 3-105
OTHER EQUIPMENT 3-108
MACHINE OPERATIONS AND CONTROLS 3-145
CHECKS AND ADJUSTMENT BEFORE STARTING ENGINE 3-145

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METHOD FOR STARTING ENGINE 3-171
METHOD FOR OPERATIONS AND CHECKS AFTER STARTING ENGINE 3-175
METHOD FOR STOPPING ENGINE 3-178
METHOD FOR STARTING MACHINE (TRAVEL FORWARD AND REVERSE, AND SHIFTING GEAR) AND STOPPING MACHINE 3-179
METHOD FOR STEERING MACHINE 3-187
METHOD FOR OPERATING WORK EQUIPMENT 3-188
PRECAUTIONS FOR OPERATION 3-190
RECOMMENDED APPLICATIONS 3-191
METHOD FOR ADJUSTING WORK EQUIPMENT POSTURE 3-196
REMOTE POSITIONER 3-196
METHOD FOR PARKING MACHINE 3-201
METHOD FOR CHECKING AFTER FINISHING WORK 3-203
LOCK 3-203
HANDLE TIRE 3-206
HANDLE AIR CONDITIONER 3-208
EXPLANATION OF AIR CONDITIONER EQUIPMENT 3-209
METHOD FOR OPERATING AIR CONDITIONER 3-214
HANDLE RADIO 3-218
EXPLANATION OF RADIO EQUIPMENT 3-218
METHOD FOR CONTROLLING RADIO 3-220
TRANSPORTATION 3-223
TRANSPORTATION PROCEDURE 3-223
LOADING AND UNLOADING WITH TRAILER 3-223
METHOD FOR LIFTING MACHINE 3-226
COLD WEATHER OPERATION 3-229
COLD WEATHER OPERATION INFORMATION 3-229
PRECAUTIONS AFTER DAILY WORK COMPLETION 3-230
PRECAUTIONS IN COLD WEATHER 3-230
AFTER COLD WEATHER SEASON 3-230
PRECAUTIONS FOR LONG-TERM STORAGE 3-231
PREPARATION FOR LONG-TERM STORAGE 3-231
MAINTENANCE DURING LONG-TERM STORAGE 3-231
STARTING MACHINE AFTER LONG-TERM STORAGE 3-231
TROUBLES AND ACTIONS 3-233
ACTIONS WHEN RUNNING OUT OF FUEL 3-233
PRECAUTIONS FOR TOWING MACHINE 3-233
PRECAUTIONS FOR DISCHARGED BATTERY 3-236
OTHER TROUBLE 3-239
MAINTENANCE 4-1
PRECAUTIONS FOR MAINTENANCE 4-2
CHECK SERVICE METER READING 4-2
KOMATSU GENUINE REPLACEMENT PARTS 4-2
KOMATSU GENUINE LUBRICANTS 4-2
ALWAYS USE CLEAN WASHER FLUID 4-2
FRESH AND CLEAN LUBRICANTS 4-2
CHECK DRAINED OIL AND USED FILTER 4-2
PRECAUTIONS FOR REFILLING OIL OR FUEL 4-2
PRECAUTIONS FOR ADDING DEF 4-2
PRECAUTIONS FOR WELDING 4-2
DO NOT DROP THINGS INSIDE MACHINE 4-2
PRECAUTIONS FOR KDPF 4-2
PRECAUTIONS FOR SCR ASSEMBLY 4-3
DUSTY JOBSITES 4-3
AVOID MIXING OIL 4-3
LOCK INSPECTION COVERS 4-3
BLEED AIR FROM HYDRAULIC CIRCUIT 4-3
PRECAUTIONS WHEN INSTALLING HYDRAULIC HOSES 4-3

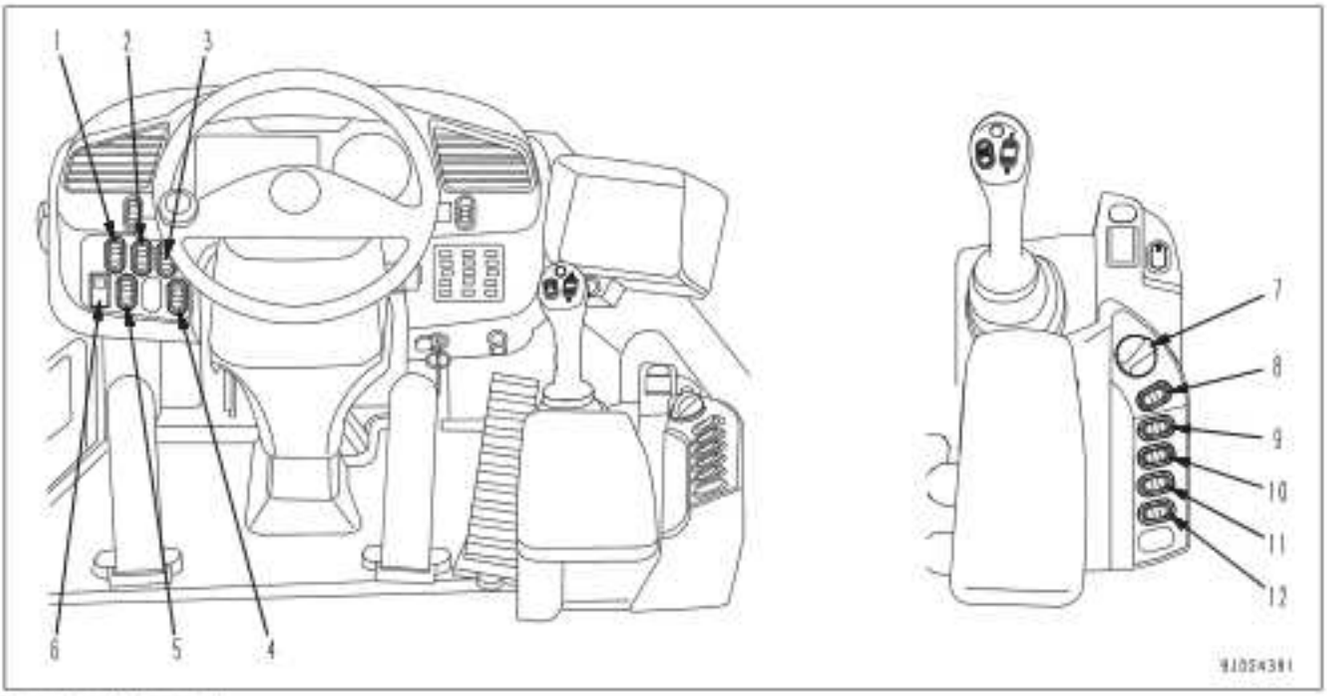
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CHECKS AFTER INSPECTION AND MAINTENANCE 4-3
FUEL AND LUBRICANTS TO MATCH THE AMBIENT TEMPERATURE 4-4
CLOSE ENGINE SIDE COVER SECURELY 4-4
OUTLINE OF MAINTENANCE 4-5
HANDLE OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC 4-5
HANDLE ELECTRICAL COMPONENTS 4-9
STANDARD TIGHTENING TORQUE FOR BOLTS AND NUTS 4-10
MAINTENANCE SCHEDULE 4-12
MAINTENANCE SCHEDULE TABLE 4-12
MAINTENANCE PROCEDURE 4-14
INITIAL 10 HOURS MAINTENANCE (ONLY FOR THE FIRST 100 HOURS) 4-14
INITIAL 250 HOURS MAINTENANCE (ONLY AFTER THE FIRST 250 HOURS) 4-14
INITIAL 1000 HOURS MAINTENANCE (ONLY AFTER THE FIRST 1000 HOURS) 4-14
WHEN REQUIRED 4-14
CHECKS BEFORE STARTING 4-40
EVERY 50 HOURS MAINTENANCE 4-41
EVERY 100 HOURS MAINTENANCE 4-41
EVERY 250 HOURS MAINTENANCE 4-45
EVERY 500 HOURS MAINTENANCE 4-52
EVERY 1000 HOURS MAINTENANCE 4-56
EVERY 2000 HOURS MAINTENANCE 4-61
EVERY 4000 HOURS MAINTENANCE 4-77
EVERY 4500 HOURS MAINTENANCE 4-80
EVERY 8000 HOURS MAINTENANCE 4-80
EVERY 9000 HOURS MAINTENANCE 4-80
SPECIFICATIONS 5-1
SPECIFICATIONS 5-2
SPECIFICATIONS:WA270-8 5-2
ATTACHMENTS AND OPTIONS 6-1
BUCKET AND TIRE SELECTION 6-2
HANDLE HYDRAULIC TYPE QUICK COUPLER 6-3
EXPLANATION OF COMPONENTS ON MACHINES WITH QUICK COUPLER 6-3
METHOD FOR REMOVING ATTACHMENT 6-4
METHOD FOR INSTALLING ATTACHMENT 6-5
HANDLE FORK 6-8
EXPLANATION OF COMPONENTS ON MACHINES WITH FORK 6-8
MACHINE OPERATIONS AND CONTROLS 6-9
PCS(PROPORTIONAL CONTROL SWITCH) 6-15
LCD UNIT 6-15
METHOD FOR SETTING PCS 6-17
REPLACEMENT PARTS 7-1
PERIODIC REPLACEMENT OF DEFINED LIFE PARTS 7-2
DEFINED LIFE PARTS LIST 7-2
CONSUMABLE PARTS 7-3
CONSUMABLE PARTS LIST 7-3
RECOMMENDED FUEL, COOLANT, AND LUBRICANT 7-4
LUBRICATION CHART 7-5
METHOD FOR USING FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE 7-7
RECOMMENDED BRANDS AND QUALITIES OTHER THAN KOMATSU GENUINE OILS 7-8
INDEX 8-1

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(17) Directional selector switch
(18) Multifunction mono-lever
(19) PCS (Proportional Control Switch) (if equipped)
(20) Accelerator pedal
(21) R.H. brake pedal
(22) Starting switch
(23) Front wiper switch
(24) Rear wiper switch
(25) Steering tilt lock lever
(26) L.H. brake pedal
(27) Max. traction switch
(28) Room lamp switch
(29) Rear heated wire glass switch
(30) Radio (if equipped)
(31) Emergency HST pump drive switch

SWITCH PANEL



Front switch panel
(1) Front working lamp switch
(2) Rear working lamp switch
(3) Beacon lamp switch (if equipped)
(4) Monitor brightness selector switch
(5) ECSS switch
(6) Quick coupler attachment switch (if equipped)
R.H. switch panel
(7) Travel speed control dial
(8) Traction control switch
(9) Directional selector switch actuation switch
(10) Attachment selector switch (if equipped)
(11) Remote positioner switch
(12) 2-stage low idle switch
* ECSS: Electronically Controlled Suspension System

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NOTICE

- **The filter element needs to be replaced every 2000 hours. For details of the replacement procedure, see "METHOD FOR REPLACING KCCV FILTER ELEMENT (4-71)".**
- **Do not operate the engine without the KCCV filter element or use a filter element other than the Komatsu genuine one.**
  If this is ignored, the engine sucks oil and foreign material which can cause a trouble.
  Always install Komatsu genuine KCCV filter element.
- **The filter element cannot be flushed. It is degraded in performance and can cause an engine trouble, even if it is cleaned.**
  Never reuse the element.

HANDLE UREA SCR SYSTEM WARNING

Urea SCR system is a device which converts toxic nitrogen oxides (NOx) in the exhaust gas into harmless nitrogen and water. By spraying DEF into the exhaust gas, it decomposes and hydrolyzes to form ammonia (NH3) and the ammonia selectively reacts with nitrogen oxides for the conversion to nitrogen and water.

The Komatsu Urea SCR System continuously monitors its operation conditions and stores information on inappropriate operations including malfunctions. The information is used for system diagnostics and also for Inducement required by the authorities on engine systems that use Urea SCR systems. Inducement is intended for the operator to take prompt actions to maintain and correct inappropriate behaviors of Urea SCR systems by utilizing visible and audible alerts, and engine power derate in addition. Alerts in Inducement of the Komatsu Urea SCR System progresses step by step starting from visual indications on the machine monitor and audible sounds to engine power derate to avoid getting into unsafe conditions.

The Komatsu Urea System also monitors recurrences of abnormalities of the system. Inducement in the recurrences is activated when another abnormality occurs within 40 hours after the first abnormality is fixed.

The Komatsu's Urea is composed of two major systems, which are the DEF system and the SCR catalyst Ass'y.

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SPECIFICATIONS

SPECIFICATIONS:WA270-8

	Item			Unit	WA270-8
	Operating weight (with bolt on cutting edge (BOC))			kg { lb}	12875 {28389}
	Normal load			kg { lb}	3680 {8114}
	Bucket capacity	Heaped		m^3 { cu.yd}	2.3 {3.0}
	Engine model			-	KOMATSU SAA6D107E-3
	Rated horsepower	SAE J1995 (gross)		kW {HP} / min^{-1} (rpm)	115 {153} / 2000 {2000}
		ISO9249 / SAE J1349 (net)			111 {149} / 2000 {2000}
A	Overall length			mm {ft in}	7360 {24' 2"}
B	Overall height (work equipment)			mm {ft in}	3200 {10' 6"}
C	Overall height with bucket lifted up			mm {ft in}	5285 {17' 4"}
D	Overall width			mm {ft in}	2505 {8' 3"}
E	Min. ground clearance			mm {ft in}	465 {1' 6"}
F	Bucket width			mm {ft in}	2550 {8' 4"}
G	Dumpling clearance (*1)	Cutting edge [BOC tip]		mm {ft in}	2975 {9' 9"} [3040 {10' 0"}]
H	Dumpling reach (*1)	Cutting edge [BOC tip]		mm {ft in}	920 {3' 0"} [945 {3' 1"}]
I	Bucket dump angle(max. height)			°	45 (48)
	Min. turning radius	Cutting edge [BOC tip]		mm {ft in}	6000 {19' 8"} [6025 {19' 9"}]
		Center of outside tire		mm {ft in}	5175 {17' 0"}
	Permissible towing load			kN { kg}	92.5 {9435}
	Max. speed	Forward	1st	km/h { MPH}	1.0 {0.6} to 13.0 {8.1}
			2nd	km/h { MPH}	13.0 {8.1}
			3rd	km/h { MPH}	19.0 {11.8}
			4th	km/h { MPH}	38.0 {23.6}
		Reverse	1st	km/h { MPH}	1.0 {0.6} to 13.0 {8.1}
			2nd	km/h { MPH}	13.0 {8.1}
			3rd	km/h { MPH}	19.0 {11.8}
			4th	km/h { MPH}	38.0 {23.6}

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