TEN00121-05

Operation & Maintenance Manual

WHEEL LOADER **WA430-6**

SERIAL NUMBERS 65001 and up

ecot3

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

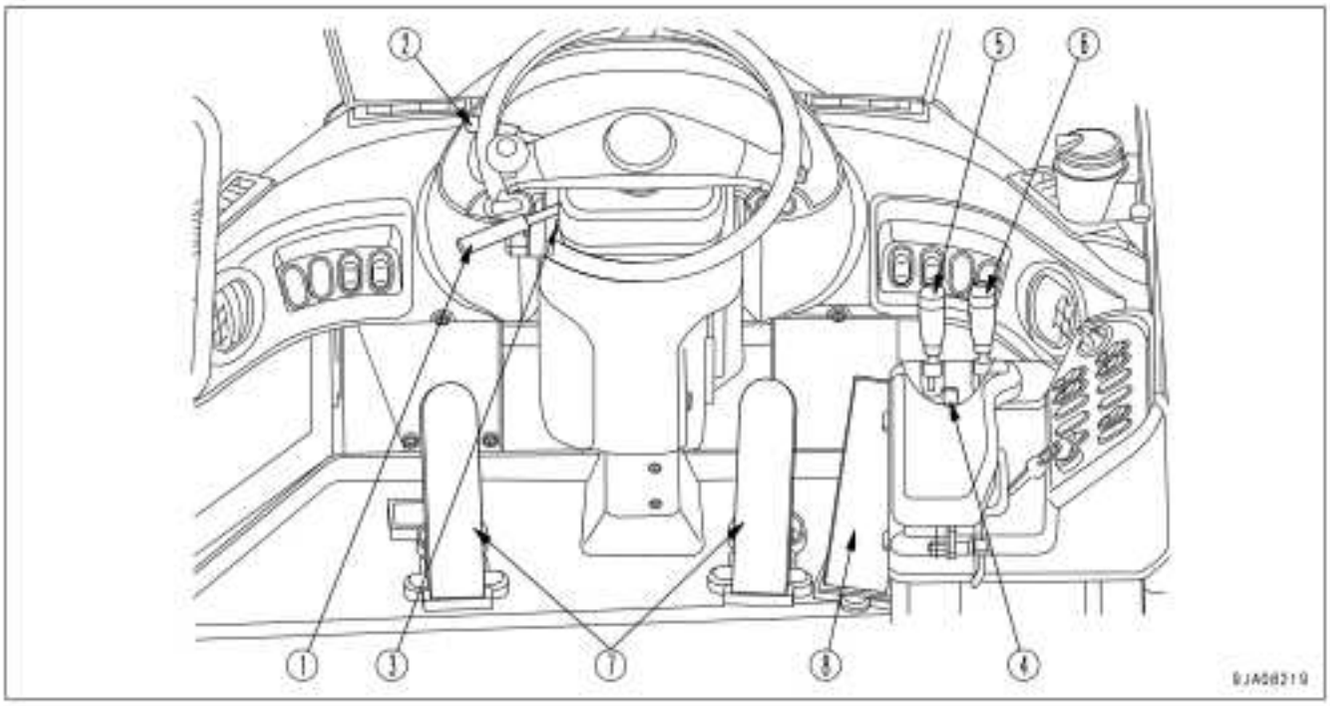
KOMATSU®

MidWestTech | Komatsu WA430-6 Wheel Loader Operation & Maintenance Manual | Publi... Order the manual at mid-west-tech.com >

GREASE PUMP ---- 3- 61
OPENING, CLOSING CAB DOORS, WINDOWS ---- 3- 62
BACKUP ALARM ---- 3- 66
FUSE ---- 3- 67
SLOW BLOW FUSE ---- 3- 68
POWER OUTLET ---- 3- 69
AM/FM RADIO ---- 3- 70
AM/FM RADIO-CASSETTE STEREO ---- 3- 76
HANDLING AUTO AIR CONDITIONER ---- 3- 84
AIR CONDITIONER ---- 3- 91
HANDLING CAB WIPER ---- 3- 98
OPERATION ---- 3- 99
CHECK BEFORE STARTING ENGINE, ADJUST ---- 3- 99
STARTING ENGINE ---- 3-118
CHECKS AFTER STARTING ENGINE ---- 3-122
OPERATIONS AND CHECKS AFTER STARTING ENGINE ---- 3-123
STOPPING ENGINE ---- 3-125
MOVING THE MACHINE (DIRECTIONAL, SPEED), STOPPING THE MACHINE ---- 3-126
TURNING ---- 3-135
OPERATION OF WORK EQUIPMENT ---- 3-138
WORK POSSIBLE USING WHEEL LOADER ---- 3-140
PRECAUTIONS FOR OPERATION ---- 3-147
ADJUSTING WORK EQUIPMENT POSTURE ---- 3-149
PARKING MACHINE ---- 3-151
CHECKS AFTER COMPLETION OF OPERATION ---- 3-153
LOCKING ---- 3-154
HANDLING THE TIRES ---- 3-155
TRANSPORTATION ---- 3-157
TRANSPORTATION PROCEDURE ---- 3-157
LOADING, UNLOADING WORK WITH TRAILERS ---- 3-157
LIFTING MACHINE ---- 3-161
COLD WEATHER OPERATION ---- 3-163
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-163
PRECAUTIONS AFTER COMPLETION OF WORK ---- 3-164
AFTER COLD WEATHER ---- 3-164
LONG-TERM STORAGE ---- 3-165
BEFORE STORAGE ---- 3-165
DURING STORAGE ---- 3-165
AFTER STORAGE ---- 3-165
TROUBLESHOOTING ---- 3-166
WHEN MACHINE RUNS OUT OF FUEL ---- 3-166
METHOD OF TOWING MACHINE ---- 3-166
IF BATTERY IS DISCHARGED ---- 3-171
OTHER TROUBLE ---- 3-174
MAINTENANCE ---- 4- 1
GUIDES TO MAINTENANCE ---- 4- 2
OUTLINES OF SERVICE ---- 4- 4
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 4
OUTLINE OF ELECTRIC SYSTEM ---- 4- 7
WEAR PARTS ---- 4- 8

MidWestTech | Komatsu WA430-6 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

CONTROL LEVERS, PEDALS



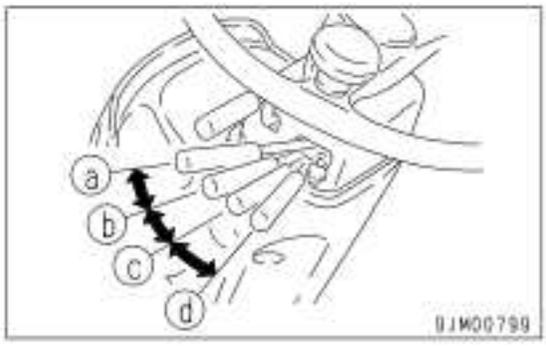
(1) Gearshift lever
(2) Directional lever
(3) Gearshift lever stopper
(4) Work equipment lock lever
(5) Bucket control lever
(6) Lift arm control lever
(7) Brake pedal
(8) Accelerator pedal

GEARSHIFT LEVER

This lever (1) changes the speed range of the transmission.

MANUAL SHIFT

This machine has a 4-FORWARD, 4-REVERSE speed transmission.
Place the gearshift lever in a suitable position to obtain the desired speed range.
1st and 2nd speeds are used for working.
3rd and 4th speeds are used for traveling.
However, when the gearshift lever stopper is being used, it is impossible to shift to 3rd or 4th. Disengage the gearshift lever stopper before trying to shift gear.
Position (a): 1st
Position (b): 2nd
Position (c): 3rd
Position (d): 4th



MidWestTech | Komatsu WA430-6 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

MAINTENANCE SCHEDULE CHART

MAINTENANCE SCHEDULE CHART

INITIAL 250 HOURS SERVICE (ONLY AFTER THE FIRST 250 HOURS)
CHANGE TRANSMISSION OIL FILTER CARTRIDGE ---- 4- 55
REPLACE HYDRAULIC TANK FILTER ELEMENT ---- 4- 58

INITIAL 1000 HOURS SERVICE (ONLY AFTER THE FIRST 1000 HOURS)
CHECK ENGINE VALVE CLEARANCE, ADJUST ---- 4- 63

WHEN REQUIRED
CLEAN, REPLACE AIR CLEANER ELEMENT ---- 4- 18
CLEAN INSIDE OF COOLING SYSTEM ---- 4- 21
CHECK TRANSMISSION OIL LEVEL, ADD OIL ---- 4- 24
CHECK AXLE OIL LEVEL, ADD OIL ---- 4- 25
CLEAN AXLE CASE BREATHER ---- 4- 26
CLEAN AIR CONDITIONER CONDENSER ---- 4- 26
CHECK WINDOW WASHING FLUID LEVEL, ADD FLUID ---- 4- 27
CLEAN RADIATOR FINS AND COOLER FINS ---- 4- 27
TURN, REPLACE BOLT-ON CUTTING EDGE ---- 4- 31
REPLACE BUCKET TEETH ---- 4- 32
CHECK AIR CONDITIONER ---- 4- 34
REPLACE SLOW BLOW FUSE ---- 4- 35
CHECKING FUNCTION OF ACCUMULATOR ---- 4- 36
SELECTION AND INSPECTION OF TIRES ---- 4- 37

CHECK BEFORE STARTING

EVERY 50 HOURS SERVICE
DRAIN WATER, SEDIMENT FROM FUEL TANK ---- 4- 40

EVERY 100 HOURS SERVICE
LUBRICATE REAR AXLE PIVOT PIN ---- 4- 41
CHECK OIL LEVEL IN HYDRAULIC TANK, ADD OIL ---- 4- 41
CLEAN ELEMENT IN AIR CONDITIONER FRESH AIR FILTER ---- 4- 42

EVERY 250 HOURS SERVICE
CHECK BATTERY ELECTROLYTE LEVEL ---- 4- 43
CHECK PARKING BRAKE ---- 4- 44
CHECK AIR CONDITIONER COMPRESSOR BELT TENSION, ADJUST ---- 4- 45
CHECK FOR LOOSE WHEEL HUB BOLTS, TIGHTEN ---- 4- 46
CLEAN ELEMENT IN AIR CONDITIONER RECIRCULATION FILTER ---- 4- 46
CHECKING FUNCTION OF ACCUMULATOR ---- 4- 47
LUBRICATING ---- 4- 48

EVERY 500 HOURS SERVICE
CHANGE OIL IN ENGINE OIL PAN, REPLACE ENGINE OIL FILTER CARTRIDGE ---- 4- 49
REPLACE FUEL PRE-FILTER CARTRIDGE ---- 4- 50

MidWestTech | Komatsu WA430-6 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

SPECIFICATIONS

(Machines fitted with 23.5-25-16PR (L3) tires)

	Item			Unit	WA430-6 standarad specification machine (when using POWER mode)
	Machine weight (with bolt on cutting edge)			kg (lb)	18,290 (40,329)
	Normal load			kg (lb)	5,600 (12,348)
	Bucket capacity	Heaped		m^3(cu.yd)	3.5 (4.6)
	Engine model			-	Komatsu SAA6D114E-3
	Flywheel horse power			kW (HP)/rpm	172 (231)/2,100
A	Overall length			mm (ft in)	8,310 (27' 3")
B	Overall height			mm (ft in)	3,390 (11' 1")
C	Max.dimension when shaking bucket			mm (ft in)	5,710 (18' 9")
D	Overall width			mm (ft in)	2,820 (9' 3")
E	Min. ground clearance			mm (ft in)	455 (1' 6")
F	Bucket width			mm (ft in)	3,050 (10' 0")
G	Clearance	Cutting edge [BOC tip]		mm (ft in)	3,105 (10' 2") [3,015 (9' 11")]
H	Reach	Cutting edge [BOC tip]		mm (ft in)	1,150 (3' 9") [1,195 (3' 11")]
I	Dump angle			degrees	49
	Min. turning radius	Out of chassis		mm (ft in)	7,230 (23' 9") [7,270 (23' 10")]
		Center of out side tire		mm (ft in)	6,335 (20' 9")
	Permissible towing load			kN (kg)	116 (11,800)
	Travel speed	Forward	1st	km/h (MPH)	7.0 (4.3)
			2nd	km/h (MPH)	12.3 (7.6)
			3rd	km/h (MPH)	21.6 (13.4)
			4th	km/h (MPH)	37.2 (23.1)
		Reverse	1st	km/h (MPH)	7.6 (4.7)
			2nd	km/h (MPH)	12.9 (8.0)
			3rd	km/h (MPH)	23.0 (14.3)
			4th	km/h (MPH)	37.2 (23.1)

MidWestTech | Komatsu WA430-6 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >