UEAM004501

Operation & Maintenance Manual

PW180-7K

WHEELED EXCAVATOR

SERIAL NUMBER
PW180-7K - K40001 and up

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.

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Model	Arm length	Height (B)	Reach (A)											
			MAX		7.5m		6.0m		4.5m		3.0m		1.5m	
			OF	OS	OF	OS	OF	OS	OF	OS	OF	OS	OF	OS
4 X Outrigger	2.25m	7.5m	*2950	*2950					*4800	*4800				
		6.0m	*2550	*2550			*4650	*4650	*4800	*4800				
		4.5m	*2450	*2450	*3100	*3100	*5350	5300	*5900	*5900				
		3.0m	*2450	*2450	*4800	3500	*5792	5100	*7673	*7750				
		1.5m	*2600	*2600	*4900	3400	*6250	4900	*8700	7750				
		0.0m	*2850	*2850	*4750	3283	*6350	4513	*8624	6900				
		-1.5m	*3400	*3400			*5850	4700	*8000	6929	*7700	*7700		
		-3.0m												
		-4.5m												
	2.6m	7.5m	*2400	*2400			*2550	*2550						
		6.0m	*2100	*2100			*4100	*4100						
		4.5m	*2050	*2050	*3500	*3500	*4800	*4800	*4900	*4900				
		3.0m	*2050	*2050	*4600	3500	*5594	5150	*7326	*7400				
		1.5m	*2200	*2200	*4850	3400	*6150	4900	*8500	7850				
		0.0m	*2450	*2450	*4800	3283	*6350	4513	*8673	6946				
		-1.5m	*2900	*2900	*4250	3350	*6000	4700	*8250	6929	*7550	*7550		
		-3.0m					*4800	4700	*6750	*6750				
		-4.5m												
	2.9m	7.5m	*2050	*2050			*3050	*3050						
		6.0m	*1800	*1800	*2000	*2000	*3700	*3700						
		4.5m	*1750	*1750	*3500	*3500	*4250	*4250	*4100	*4100				
		3.0m	*1750	*1750	*4350	3500	*5450	5150	*6980	*7050				
		1.5m	*1850	*1850	*4750	3400	*6000	4900	*8250	7850				
		0.0m	*2100	*2100	*4800	3234	*6250	4465	*8575	6900	*4600	*4600		
		-1.5m	*2450	*2450	*4400	3250	*6050	4554	*8350	6836	*7200	*7200		
		-3.0m					*5050	4650	*7050	*7050				
		-4.5m												

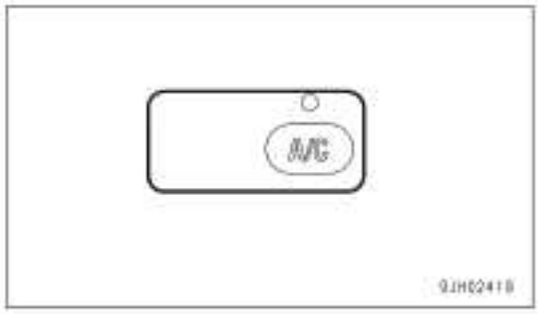
Note for lift capacity tables:

1. Ratings are based on ISO 10567
2. Lifting capacities are given for:
   a) 75% of tipping load
   b) rated hydraulic lift capacity 87% of max.
3. Capacities marked with an asterisk (*) are limited by hydraulic capacities

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AIR CONDITIONER SWITCH

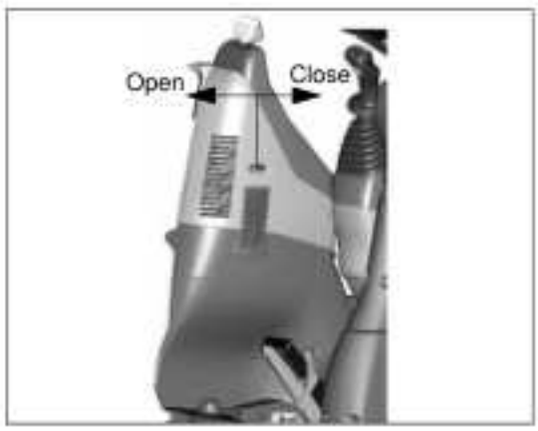
This switch (8) is used to turn the air conditioner (cooling, dehumidifying, heating) ON or OFF.



- When the fan is actuated (the display monitor shows (b)) and air conditioner switch (8) is pressed, the air conditioner is switched ON, the lamp at the top of the air conditioner switch lights up, and the air conditioner starts. When it is pressed again to the OFF position, the lamp at the top of the air conditioner switch goes out.
- The air conditioner cannot be operated while the fan is stopped.

DEFROSTER SELECTOR LEVER

This switch (9) is used in cold or rainy weather to remove the mist that forms on the front glass.



Selector lever forward: To defroster (open)

Selector lever back: Closed

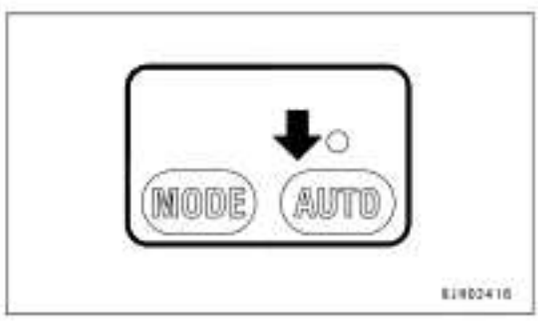
The defroster can be used when the vent selector switch is set to face or face and foot.

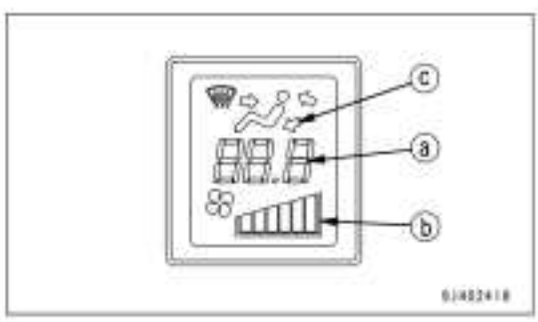
METHOD OF OPERATION

The air conditioner can be operated automatically or manually. Select the method of operation as desired.

AUTOMATIC OPERATION

1. Turn auto switch (5) ON.
   - The lamp at the top of switch (5) lights up.
   - The set temperature (a) and air flow (b) are displayed on the monitor.





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GUIDES TO MAINTENANCE

Do not carry out any inspection and maintenance operation that is not given in this manual.

REMARK

Opening Engine Compartment Hood

Whenever access is required to the engine compartment via the hood, always ensure that the work equipment is tipped as far forward as possible.
This will ensure that the hoses mounted on the work equipment do not impede the engine hood when it is opened/closed.

Perform maintenance work on hard, flat ground.

Check service meter:

Check the service meter reading every day to see if the time has come for any necessary maintenance to be carried out.

Komatsu genuine replacement parts:

Use Komatsu genuine parts specified in the Parts Book as replacement parts.

Komatsu genuine oils:

Use Komatsu genuine oils and grease. Choose oils and grease with proper viscosities specified for ambient temperature.
Always use clean washer fluid:
Use automobile window washer fluid and be careful not to let any dirt get into it.

Always use clean oil and grease:

Use clean oil and grease. Also, keep containers of the oil and grease clean. Keep foreign materials away from oil and grease.

Keeping the machine clean:

Always keep the machine clean. This makes is easier to find parts causing problems. Keep in particular grease fittings, breathers and oil level gauges clean and avoid foreign matter from getting in them.

Be careful of hot water and oil:

Draining hot oil and coolant and removing their filters immediately after the engine stops is hazardous. Allow the engine to cool.

If the oil has to be drained when it is cold, warm up the oil to a suitable temperature (approx. 20 - 40°C) before draining it.

Checking foreign material in drained oil and on filter:

After oil is changed or filters are replaced, check the oil and filters for metallic particles and foreign material. If large quantities of metallic particles or foreign material are found, consult your Komatsu distributor.

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3. After greasing, wipe off any old grease that was pushed out.



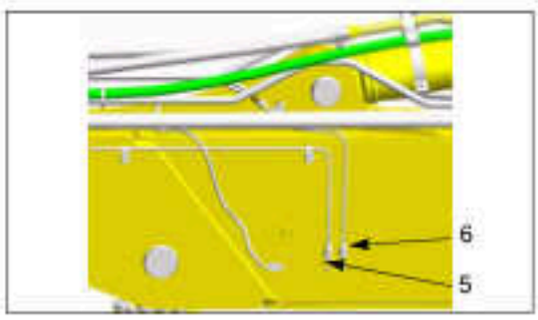
1. Boom cylinder foot pin (2 points).



2. Boom foot pin (2 points).
3. Boom cylinder rod end (2 points).
4. 1st to 2nd boom pin (1 point).



5. 1st to 2nd boom pin (1 point).
6. Arm cylinder foot pin (1 point).



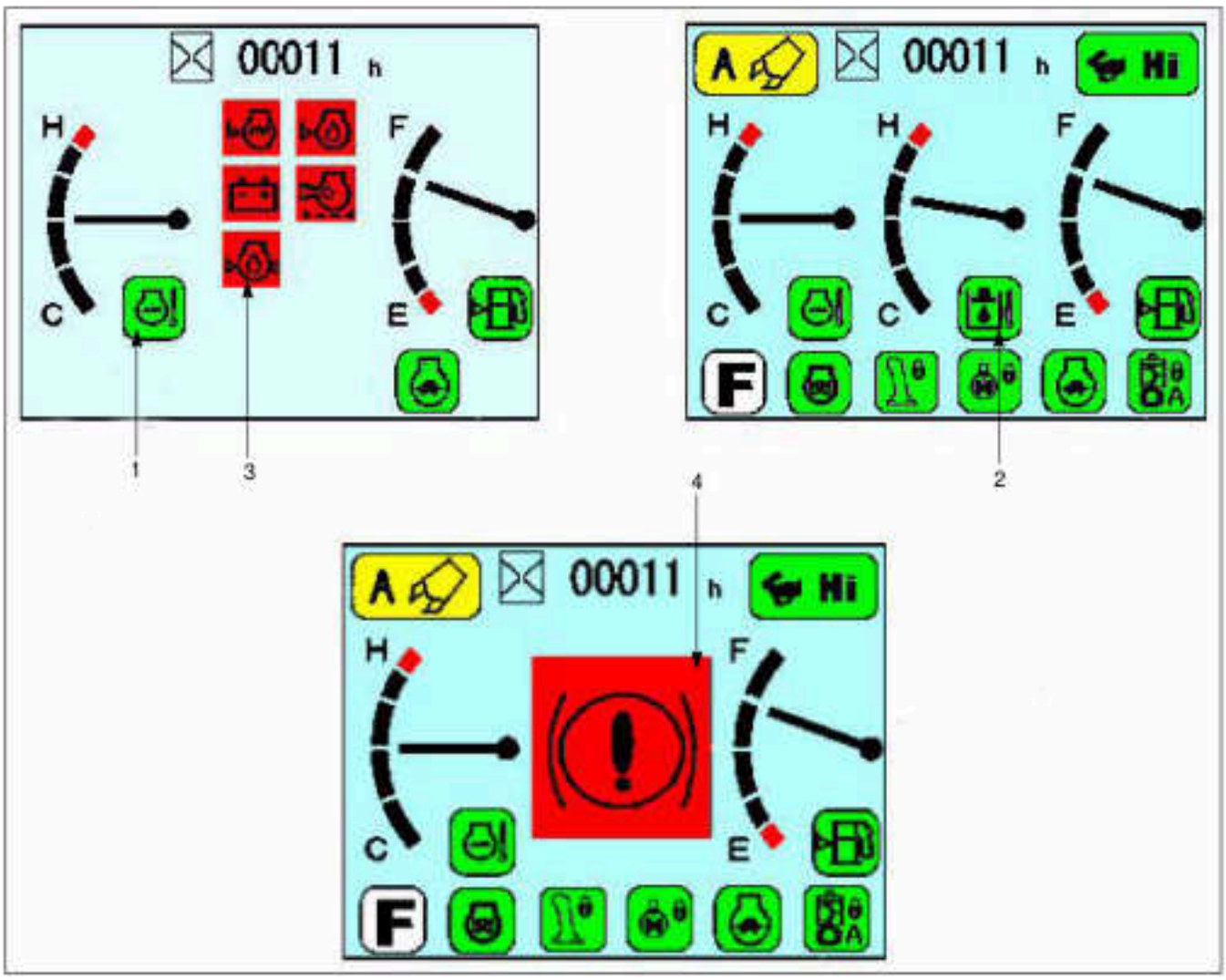
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EMERGENCY STOP ITEMS

⚠ CAUTION

If the monitor lights up red, stop the engine immediately or run it at low idle, then check the applicable location and carry out the necessary action.

These are items that should be observed while the engine is running. If there is an abnormality, the monitor for the abnormal location lights up red and the buzzer sounds, so carry out action immediately.



(1) Engine water temperature monitor	(3) Engine oil pressure monitor
(2) Hydraulic oil temperature monitor	(4) Low brake pressure

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