

Operation & Maintenance Manual

PEN01324-00

WF650T-3

TRASH COMPACTOR

SERIAL NUMBERS WF650T-50001 and up

WARNING

Unsafe use of this engine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this engine. This manual should be kept near the engine 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

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

MAINTENANCE

17. Guides to maintenance	3- 2
18. Outlines of service	3- 4
18.1 Handling oil, fuel, coolant, and performing oil clinic	3- 4
18.2 Outline of electric system	3- 8
19. Wear parts list	3- 9
20. Use of fuel, coolant and lubricants according to ambient temperature	3-10
21. Standard tightening torques for bolts and nuts	3-14
21.1 Torque list	3-14
22. Periodic replacement of safety critical parts	3-15
23. Maintenance schedule chart	3-17
23.1 Maintenance schedule chart	3-17
24. Service Procedure	3-21
24.1 Initial 250 hours service	3-21
24.2 When required	3-22
24.3 Check before starting	3-39
24.4 Every 50 hours service	3-40
24.5 Every 100 hours service	3-41
24.6 Every 250 hours service	3-43
24.7 Every 500 hours service	3-51
24.8 Every 1000 hours service	3-55
24.9 Every 2000 hours service	3-60
24.10 Every 4000 hours service	3-67

SPECIFICATIONS

25. Specifications	4- 2
---------------------------------	------

OPTIONS, ATTACHMENTS

26. Car radio	5- 2
26.1 Explanation of components	5- 2
26.2 Method of use	5- 5
26.3 Precautions when using	5- 6- 1
27. AM/FM radio-cassette stereo	5- 7
27.1 Explanation of components	5- 7
27.2 Method of use	5-12
27.3 Precautions for using	5-14
28. Air suspension seat	5-15
28.1 Adjustment operator's seat	5-15

CHECKING SIGNALMAN'S SIGNALS AND SIGNS

- Set up signs to inform of road shoulders and soft ground. If the visibility is not good, position a signalman if necessary. Operators should pay careful attention to the signs and follow the instructions from the signalman.
- Only one signalman should give signals.
- Make sure that all workers understand the meaning of all signals and signs before starting work.

EMERGENCY EXIT FROM OPERATOR'S CAB

Machines equipped with a cab have doors on the left and right sides. If the door on one side does not open, escape from the door on the opposite side.

ASBESTOS DUST HAZARD PREVENTION

Asbestos dust in the air can cause lung cancer if it is inhaled. There is danger of inhaling asbestos when working on jobsites handling demolition work or work handling industrial waste. Always observe the following.

- Spray water to keep down the dust when cleaning.
- Do not use compressed air for cleaning.
- If there is danger that there may be asbestos dust in the air, always operate the machine from an upwind position.
- All workers should use an approved respirator.
- Do not allow other persons to approach during the operation.
- Always observe the rules and regulations for the work site and environmental standards.

This machine does not use asbestos, but there is a danger that imitation parts may contain asbestos, so always use genuine Komatsu parts.



A0055060

8. PRECAUTIONS FOR MAINTENANCE

⚠ WARNING: For reasons of safety, always follow these safety precautions.

8.1 BEFORE CARRYING OUT MAINTENANCE

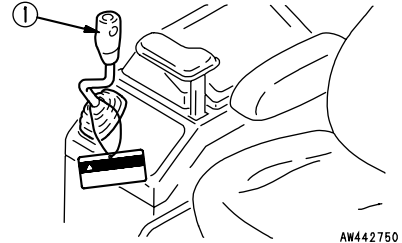
WARNING TAG

- Always attach the “DO NOT OPERATE” warning tag to work equipment control lever ① in the operator’s cab to alert others that you are performing service of maintenance on the machine. Attach additional warning tags around the machine if necessary.

Warning tag Part No.09963-03001

Keep this warning tag in the tool box while it is not used. If there is not the tool box, keep the tag in the operation manual pocket.

- If others start the engine, or touch or operate the work equipment control lever while you are performing service or maintenance, you could suffer serious injury or property damage.



KEEP WORK PLACE CLEAN AND TIDY

Do not leave hammers or other tools lying around in the work place. Wipe up all grease, oil, or other substances that will cause you to slip. Always keep the work place clean and tidy to enable you to carry out operations safely.

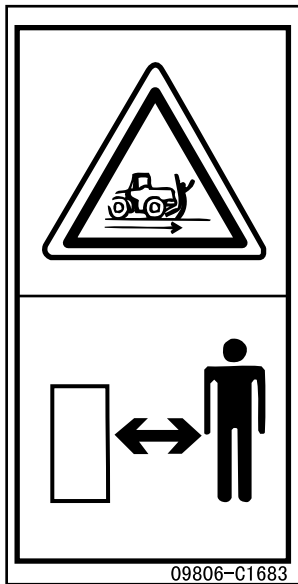
If the work place is not kept clean and tidy, there is the danger that you will trip, slip, or fall over and injure yourself.

APPOINT LEADER WHEN WORKING WITH OTHERS

When repairing the machine or when removing and installing the work equipment, appoint a leader and follow his instructions during the operation.

When working with others, misunderstandings between workers can lead to serious accidents.

14. "Do not come near machine" sign
(09806-C1683)



There is danger of being run over by machine .

Do not go close to machine.

15. "Do not modify ROPS" sign

KOMATSU			
ROLL-OVER PROTECTIVE STRUCTURE (ROPS) THE ROLL-OVER PROTECTIVE STRUCTURE OF THIS MACHINE COMPLIES WITH THE FOLLOWING STANDARDS OR RECOMMENDED PRACTICES)			
INTERNATIONAL STANDARD: ISO J471 (ROPS) AMERICAN STANDARD : SAEJ <input type="text"/> g SAEJ <input type="text"/>			
MODEL <input type="text"/>	MACHINE MODEL <input type="text"/>	SERIAL NO. <input type="text"/>	MAX. WASS <input type="text"/> kg
! WARNING	<ul style="list-style-type: none"> ● Altering ROPS may weaken it. Consult Komatsu Distributor before altering. ● ROPS may provide less protection if it has been structurally damaged or involved in roll-over. ● Always wear seat belt when moving. 		
Komatsu Ltd. Japan 2-3-6 Akasaka, Minato-ku, Tokyo, Japan 09620-30200			

16. Do not climb on hood
(09805-A0881)



There is the hazard of falling down.

Do not go close to the edge of the machine by mistake.

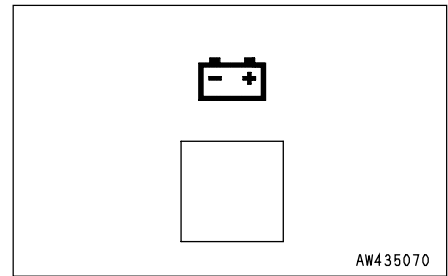
7. BATTERY CHARGE CAUTION PILOT LAMP

This warns the operator that there is an abnormality in the charging system when the engine is running.

Check before starting: Lights up

Engine started or running: When the engine is started, the alternator generates electricity and the lamp goes out.

If any abnormality occurs in the charging system, the caution pilot lamp and central CHECK lamp will flash. If they flash, check the charging circuit.



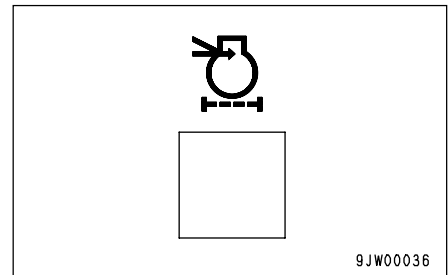
8. AIR CLEANER CLOGGING PORTION PILOT LAMP

When the engine is running, this warns the operator that the air cleaner element is clogged.

Check before starting: OFF

When operating: If the air cleaner becomes clogged, the caution pilot lamp and central CHECK lamp will flash.

If they flash, clean or replace the element.



12. ROOM LAMP SWITCH

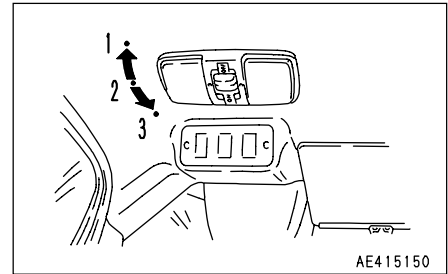
This lights up the room lamp.

On position: Lights up

Position 1: OFF

Position 2: Lights up when cab door is opened

Position 3: Lights up



REMARK

- The room lamp lights up even when the main switch is OFF, so when leaving the operator's compartment, turn the switch to position 1 or 2.
- When operating with the cab door fully open, set the switch to position 1 (OFF).

13. PARKING BRAKE SWITCH

⚠ WARNING

Always apply the parking brake when leaving the machine or parking it.

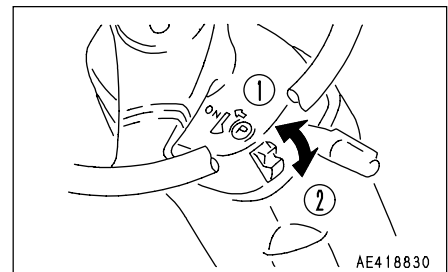
Even if the parking brake switch is turned ON, there is danger until the parking brake pilot lamp lights up, so keep the brake pedal depressed.

This switch operates the parking brake.

- ① ON position: The parking brake is applied, and the parking brake pilot lamp lights up.
- ② OFF position: The parking brake is released.

REMARK

- If the directional lever is placed in F (FORWARD) or R (REVERSE) with the parking brake applied, the warning lamp will flash and the alarm buzzer will sound.
- When the starting switch is turned to OFF, the parking brake is automatically applied.
Before starting the engine, turn the parking brake switch to ON, then turn it to OFF.
- The machine does not start when the directional lever is operated with the parking brake applied.



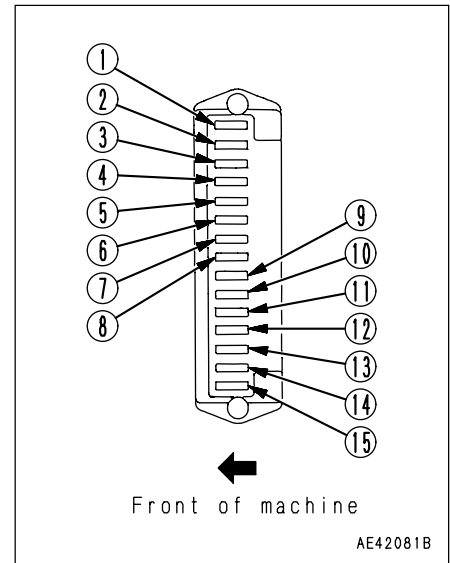
NOTICE

- **Never use the parking brake switch to apply the brakes when traveling, except in an emergency. Apply the parking brake only after the machine has stopped.**
- **If the parking brake has been used as an emergency brake when traveling at high speed (near the maximum speed), contact your Komatsu distributor to have the parking brake checked for any abnormality.**

11. EXPLANATION OF COMPONENTS

Fuse box II

No.	Fuse capacity	Name of circuit
①	20A	Front working lamp
②	20A	Rear working lamp
③	30A	Air conditioner 1
④	20A	Air conditioner 2
⑤	20A	Wiper, washer
⑥	10A	Air suspension seat (if equipped)
⑦	10A	Cigarette lighter, radio (if equipped)
⑧	10A	Rotating lamp (if equipped)
⑨	30A	APS
⑩	10A	-
⑪	-	-
⑫	20A	L.H. power window
⑬	20A	R.H. power window
⑭	10A	Spare
⑮	20A	Spare



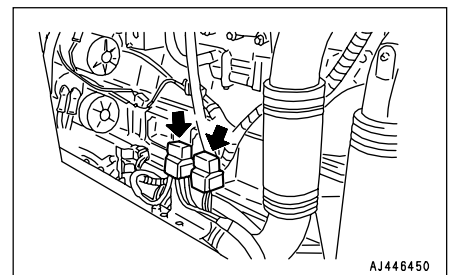
11.14 SLOW-BLOW FUSE

If the power does not come on when the starting switch is turned ON, the slow-blow fuse may be blown, so check and replace it.

The slow blow fuse is beside the engine on the left side of the machine.

SLOW-BLOW FUSE

- ① 80A: Main power
- ② 30A: Battery power (starting switch, hazard)



CHECK ELECTRIC WIRING

 **WARNING**

- If fuses are frequently blown or if there are traces of short circuit on the electrical wiring, locate the cause and carry out repair.
- Accumulation of flammable material (dead leaves, twigs, grass, etc.) around the battery may cause fire, so always check and remove such material.
- Keep the top surface of the battery clean and check the breather hole in the battery cap. If it is clogged with dirt or dust, wash the battery cap to clear the breather hole.

Check for damage and wrong capacity of the fuse and any sign of disconnection or short circuit in the electric wiring. Check also for loose terminals and tighten any loose parts.

Check the wiring of the "battery", "starting motor" and "alternator" carefully in particular.

When carrying out walk-around checks or checks before starting, always check if there is any accumulation of flammable material around the battery, and remove such flammable material.

Please contact your Komatsu distributor for investigation and correction of the cause.

CHECK PARKING BRAKE

Check that the parking brake supplies ample braking force.

If there is any abnormality in the operation, please contact your Komatsu distributor for adjustment.

CHECK BRAKE

Drive the machine forward and test the braking effect.

If there is any abnormality in the operation, please contact your Komatsu distributor for adjustment.

CHECK SOUND OF HORN AND BACKUP BUZZER

CHECK FLASHING OF LAMPS, CHECK FOR DIRT AND DAMAGE

CHECK DIRECTION OF REAR VIEW MIRROR, CHECK FOR DIRT OR DAMAGE

CHECK ENGINE EXHAUST COLOR AND SOUND

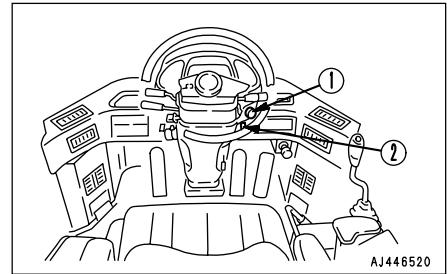
CHECK OPERATION OF GAUGES

CHECK PLAY OF STEERING WHEEL, CHECK OPERATION OF STEERING

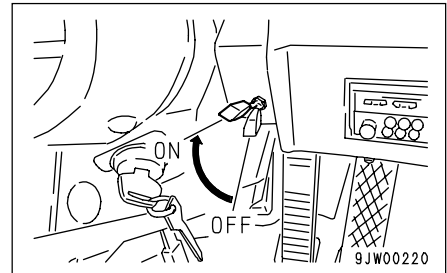
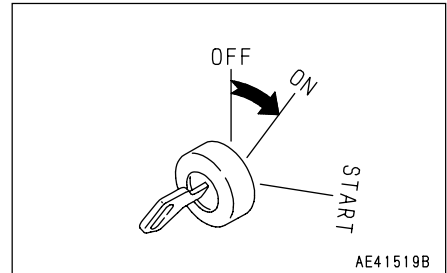
Starting using manual preheating

When the engine water temperature is above 13°C even if the ambient temperature is below 15°C, automatic preheating cannot be carried out. If it is difficult to start the engine, use the following procedure.

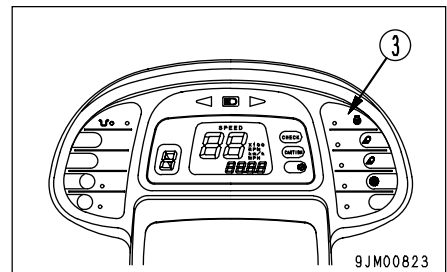
1. Put starting switch key ① to ON position.



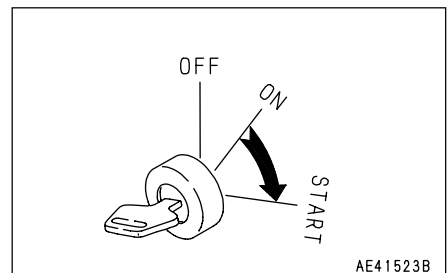
2. Keep the preheater switch ② in ON position with hand until preheating monitor ③ goes off.



3. Release pre-heating switch ②, and it returns to AUTO position automatically and pre-heating monitor ③ starts flashing.



4. Then, quickly return starting switch ① to START position to start the engine.



CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

12.11 PRECAUTIONS FOR OPERATION

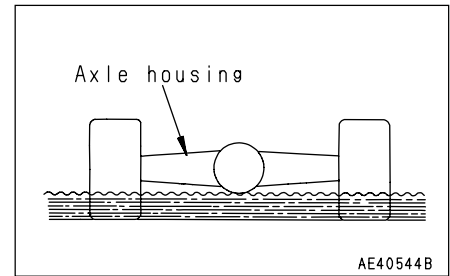
12.11.1 PERMISSIBLE WATER DEPTH

When working in water or on swampy ground, do not let the water come above the bottom of the axle housing.

After finishing the operation, wash and check the lubricating points.

12.11.2 IF WHEEL BRAKE DOES NOT WORK

If the machine is not stopped by depressing the brake pedal, use the parking brake to stop the machine.



NOTICE

If the parking brake has been used as an emergency brake, contact your Komatsu distributor to have the parking brake checked for any abnormality.

12.11.3 PRECAUTIONS WHEN DRIVING UP OR DOWN SLOPES

LOWER THE CENTER OF GRAVITY WHEN TURNING.

When turning on slopes, lower the work equipment to lower the center of gravity before turning. It is dangerous to turn the machine with the work equipment raised.

BRAKING ON DOWNHILL SLOPES

If the service brake is used too frequently when traveling downhill, the brake may overheat and be damaged. To avoid this problem, shift down to a low range and make full use of the braking force of the engine.

When braking, use the right brake pedal.

If the speed control lever is not placed in a proper speed position, the torque converter oil may overheat. If it overheats, place the speed control lever in the next lower gear speed to lower the oil temperature.

If the temperature gauge does not indicate the green range of the scale even with the lever in the 1st speed position, stop the machine, place the lever in neutral, and run the engine at medium speed until the gauge indicates the green range.

IF ENGINE STOPS

If the engine stops on a slope, depress the right brake pedal fully. Next, lower the work equipment to the ground and apply the parking brake. Then put the directional and speed control levers in neutral, and start the engine again. (If the directional lever is not in neutral, the engine will not start.)

15. LONG-TERM STORAGE

15.1 BEFORE STORAGE

When putting the machine in storage for a long time, do as follows.

- After every part is washed and dried, house the machine in a dry building. Never leave it outdoors. If the machine must be left outdoors, park it on well-drained concrete and cover it with canvas, etc.
- Completely fill the fuel tank, lubricate, and change the oil before storage.
- Apply a thin coat of grease to the metal surface of the hydraulic piston rods.
- Disconnect the negative terminals of the battery and cover it, or remove it from the machine and store it separately.
- If the ambient temperature is expected to drop below 0°C, always add antifreeze to the cooling water.
- Apply the safety locks to the blade control lever and directional lever, then apply the parking brake.

15.2 DURING STORAGE

 **WARNING**

If it is unavoidably necessary to carry out the rust-prevention operation while the machine is indoors, open the doors and windows to improve ventilation and prevent gas poisoning.

- During storage, always operate the machine once a month so that a new film of oil will be coated over movable parts and component surfaces. At the same time, also charge the battery.
- When operating the work equipment, wipe off all the grease from the hydraulic cylinder rod.
- If the machine is equipped with an air conditioner, operate it for 3 to 5 minutes once a month to lubricate each portion of its compressor. Be sure to idle the engine at low speed for this purpose. Also, check the quantity of refrigerant twice a year.

15.3 AFTER STORAGE

NOTICE

If the machine is stored without carrying out the monthly rust prevention operation, request your Komatsu distributor for service.

Carry out the following procedure when taking the machine out of long-term storage.

- Wipe off the grease from the hydraulic cylinder rods.
- Add oil and grease to all places.
- When a machine is stored for a long period, moisture in the air will get into the oil. Check the oil before and after starting the engine. If there is water in the oil, change the oil.

16.4.2 CHASSIS

- (): Always contact your Komatsu distributor when dealing with these items.
- In cases of abnormalities or causes which are not listed below, please contact your Komatsu distributor for repairs.

Problem	Main causes	Remedy
Transmission		
Engine is running but machine does not move	<ul style="list-style-type: none"> ● Parking brake is applied ● Directional lever is not shifted properly ● Lack of oil in transmission case 	<ul style="list-style-type: none"> ● Release parking brake ● Shift lever properly ● Add oil to specified level. See WHEN REQUIRED
Even when engine is run at full throttle, machine only move slowly and lacks power	<ul style="list-style-type: none"> ● Lack of oil in transmission case ● Screen is clogged 	<ul style="list-style-type: none"> ● Add oil to specified level. See WHEN REQUIRED (● Disassemble, clean)
Oil overheats	<ul style="list-style-type: none"> ● Too much oil or too little oil ● Machine is not traveling in correct speed range ● Torque converter is stalled for long periods ● Engine is overheating 	<ul style="list-style-type: none"> ● Add or drain oil to specified level. See WHEN REQUIRED ● Place in correct speed range ● Reduce stall time (● Check engine)
Noise generated	<ul style="list-style-type: none"> ● Lack of oil 	<ul style="list-style-type: none"> ● Add oil to specified level. See WHEN REQUIRED
Axle		
Noise generated	<ul style="list-style-type: none"> ● Lack of oil 	<ul style="list-style-type: none"> ● Add oil to specified level. See WHEN REQUIRED

18. OUTLINES OF SERVICE

18.1 HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC

18.1.1 OIL

- Oil is used in the engine and work equipment under extremely severe conditions (high temperature, high pressure), and it deteriorates with use.
Always use oil that matches the grade and temperature for use given in the Operation and Maintenance Manual. Even if the oil is not dirty, always replace the oil after the specified interval.
- Oil corresponds to blood in the human body, so always be careful when handling it to prevent any impurities (water, metal particles, dirt, etc.) from getting in.
The majority of problems with machine are caused by the entry of such impurities.
Take particular care not to let any impurities get in when storing or adding oil.
- Never mix oils of different grades or brands.
- Always add the specified amount of oil.
Having too much oil or too little oil are both causes of problems.
- If the oil in the work equipment is not clear, there is probably water or air getting into the circuit.
In such cases, please contact your Komatsu distributor.
- When changing the oil, always replace the related filters at the same time.
- We recommend you to have an analysis made of the oil periodically to check the condition of the machine. For those who wish to use this service, please contact your Komatsu distributor.

18.1.2 FUEL

- The fuel pump is a precision instrument, and if fuel containing water or dirt is used, it cannot work properly.
- Be extremely careful not to let impurities get in when storing or adding fuel.
- Always use the fuel specified in the Operation and Maintenance Manual.
Fuel may congeal depending on the temperature when it is used (particularly in low temperature below -15°C), so it is necessary to change to a fuel that matches the temperature.
- To prevent the moisture in the air from condensing and forming water inside the fuel tank, always fill the fuel tank after completing the day's work.
- Before starting the engine, or when 10 minutes have passed after adding fuel, drain the sediment and water from the fuel tank.
- If the engine runs out of fuel, or if the filters have been replaced, it is necessary to bleed the air from the circuit.
- At the time of shipment from the factory, SAE10WCD is used for hydraulic oil circuit. Do not use the hydraulic oil that is not recommended by Komatsu since it will be the cause for clogging. It will be no problem to mix with the small amount of remaining oil in piping and the cylinder.

21. STANDARD TIGHTENING TORQUES FOR BOLTS AND NUTS

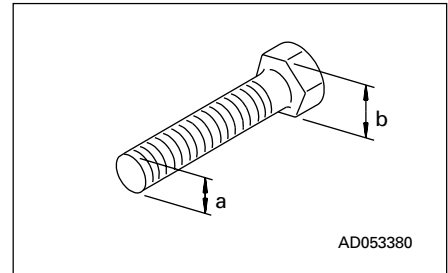
21.1 TORQUE LIST



**If nuts, bolts, or other parts are not tightened to the specified torque, it will cause looseness or damage to the tightened parts, and this will cause failure of the machine or problems with operation.
Always pay careful attention when tightening parts.**

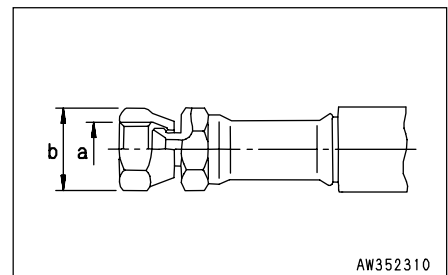
Unless otherwise specified, tighten the metric nuts and bolts to the torque shown in the table below.
If it is necessary to replace any nut or bolt, always use a Komatsu genuine part of the same size as the part that was replaced.

Thread diameter of bolt a (mm)	Width across flat b (mm)	Tightening torque					
		Target value			Service limit		
		N·m	kgf·m	lbft	N·m	kgf·m	lbft
6	10	13.2	1.35	9.8	11.8 - 14.7	1.2 - 1.5	8.7 - 10.8
8	13	31	3.2	23.1	27 - 34	2.8 - 3.5	20.3 - 25.3
10	17	66	6.7	48.5	59 - 74	6.0 - 7.5	43.4 - 54.2
12	19	113	11.5	83.2	98 - 123	10.0 - 12.5	72.3 - 90.4
14	22	177	18	130.2	157 - 196	16.0 - 20.0	115.7 - 144.7
16	24	279	28.5	206.1	245 - 309	25.0 - 31.5	180.8 - 227.8
18	27	382	39	282.1	343 - 425	35.0 - 43.5	253.2 - 314.6
20	30	549	56	405.0	490 - 608	50.0 - 62.0	361.7 - 448.4
22	32	745	76	549.7	662 - 829	67.5 - 84.5	488.2 - 611.2
24	36	927	94.5	683.5	824 - 1030	84.0 - 105.0	607.6 - 759.5
27	41	1320	135.0	976.5	1180 - 1470	120.0 - 150.0	868.0 - 1085.0
30	46	1720	175.0	1265.8	1520 - 1910	155.0 - 195.0	1121.1 - 1410.4
33	50	2210	225.0	1627.4	1960 - 2450	200.0 - 250.0	1446.6 - 1808.3
36	55	2750	280.0	2025.2	2450 - 3040	250.0 - 310.0	1808.3 - 2242.2
39	60	3280	335.0	2423.1	2890 - 3630	295.0 - 370.0	2133.7 - 2676.2



Apply the following table for Hydraulic Hose.

Thread diameter a (mm)	Width across flat b (mm)	Tightening torque					
		Target value			Permissible range		
		N·m	kgf·m	lbft	N·m	kgf·m	lbft
10	14	14.7	1.5	10.8	12.7 - 16.7	1.3 - 1.7	9.4 - 12.3
14	19	29.4	3.0	21.7	27.5 - 39.2	2.8 - 4.0	20.3 - 28.9
18	24	78.5	8.0	57.9	58.8 - 98.1	6.0 - 10.0	43.4 - 72.3
22	27	117.7	12.0	86.6	88.3 - 137.3	9.0 - 14.0	65.1 - 101.3
24	32	147.1	15.0	108.5	117.7 - 176.5	12.0 - 18.0	86.8 - 130.2
30	36	215.7	22.0	159.1	176.5 - 245.2	18.0 - 25.0	130.2 - 180.8
33	41	255.0	26.0	188.1	215.7 - 284.4	22.0 - 29.0	159.1 - 209.8



24.2.2 CLEAN INSIDE OF COOLING SYSTEM

⚠ WARNING

- **Immediately after the engine is stopped, the engine coolant is hot and the pressure inside the radiator is high. Removing the cap and draining the water under this condition could cause burns. Allow the engine to cool down, then turn the cap slowly to release the pressure.**
- **Start the engine and flush the system. When standing up or leaving the operator’s seat, set the safety lock lever to the LOCK position.**
- **For details of starting the engine, see “12.1.4 OPERATIONS AND CHECKS BEFORE STARTING ENGINE” and “12.2 STARTING ENGINE” in the OPERATION section of the Operation and Maintenance Manual.**
- **When the undercover is removed, there is danger of touching the fan. Never go to the rear of the machine when the engine is running.**

- Stop the machine on level ground when cleaning or changing the coolant.
- Clean the inside of the cooling system change the coolant and replace the corrosion resistor according to the table below.

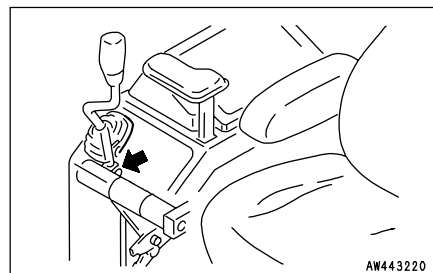
Kind of coolant	Cleaning inside of cooling system and changing coolant	Replacing corrosion resistor
Permanent type antifreeze (All season type)	Every year (autumn) or every 2000 hours, whichever comes first	Every 1000 hours and when cleaning the inside of the cooling system and when changing coolant.
Non-permanent type antifreeze containing ethylene glycol (Winter, one season type)	Every 6 months (spring, autumn) (Drain antifreeze in spring, add antifreeze in autumn)	
When not using antifreeze	Every 6 months or every 1000 hours, whichever comes first	

24.2.12 LUBRICATING

1. Using a grease pump, pump in grease through the grease fittings shown by arrows.
2. After greasing, wipe off any old grease that was pushed out.

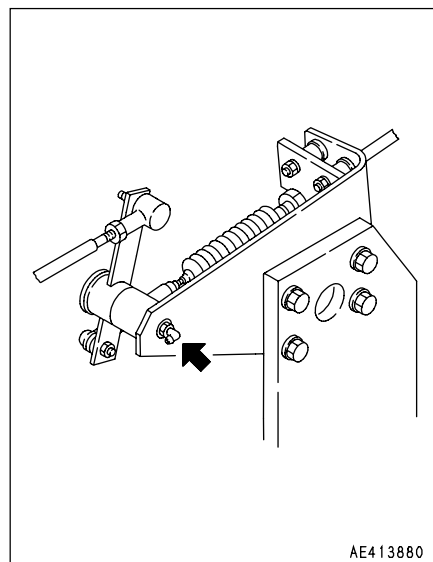
1. Blade control valve linkage (1 point)

If the blade control lever is heavy or does not move smoothly, apply grease.



2. Accelerator pedal linkage (1 point)

If the accelerator pedal is heavy or does not return properly, apply grease.



10. After replacing the filter cartridge, add engine oil through oil filler ⑥ until the oil level is between the H and L marks on dipstick ⑦.

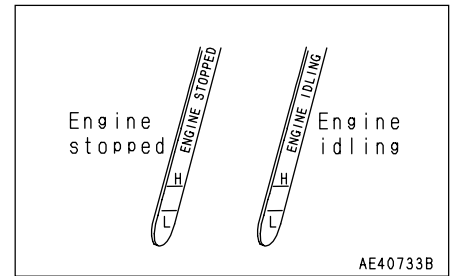
For details of the oil to use, see "20. USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE".

11. Run the engine at idling for a short time, then stop the engine, and check that the oil level is between the H and L marks on the dipstick. For details, see "12.1.2 CHECK BEFORE STARTING".

Even if the machine has not been operated for 250 hours, the oil and filter cartridge must be replaced when the machine has been operated for 6 months.

In the same way, even if the machine has not been operated for 6 months, the oil and filter cartridge must be replaced when the machine has been operated for 250 hours.

Use API category CD class oil. If CC class oil must be used, change the oil and replace the oil filter at half the usual interval (125 hours).

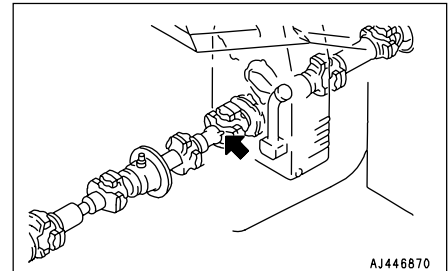


24.7.3 LUBRICATE CENTER DRIVE SHAFT SPLINE (1 point)

⚠ WARNING

- Apply the parking brake, and lock the front and rear frames with the safety bar and pin.
- Set the work equipment in a stable condition, then stop the engine and apply the locks securely to the blade control lever.

1. Using a grease pump, pump in grease through the grease fittings marked by the arrows.
2. After greasing, wipe off any old grease that is pushed out.



24.7.4 CHECK FAN BELT FOR WEAR

Check the V-belt and when the following conditions exist, replace or adjust the V-belt.

- When there is a gap between the tension pulley lever and tip of the adjustment screw.
- When the V-belt makes contact with the bottom of the groove in each pulley.
- When the V-belt is worn, and its surface is lower than the outer diameter of the pulley.
- When the V-belt is cracked or flaked.
- When the V-belt makes an abnormal noise.

Since an auto-tensioner is installed, the V-belt does not need to be replaced until it is replaced.

For details of the replacement procedure, refer to "24.2 WHEN REQUIRED".

24.9.4 REPLACE AIR CONDITIONER FILTER

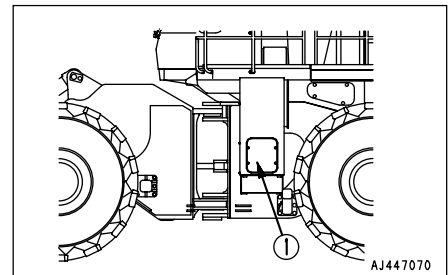
Remove both the recirculation air filter and fresh air filter in the same way as when cleaning, and replace them with new parts.

For details of cleaning the recirculation air filter, see "24.6.7 CLEAN ELEMENT IN AIR CONDITIONER RECIRCULATION FILTER".

For details of cleaning the fresh air filter, see "24.5.3 CLEAN ELEMENT IN AIR CONDITIONER FRESH AIR FILTER".

24.9.5 CLEAN PPC CIRCUIT STRAINER

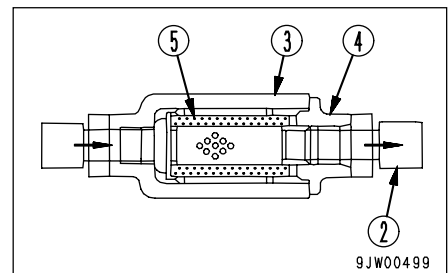
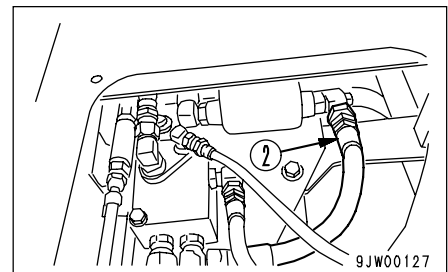
1. Remove cover ① of the accumulator on the left side of the rear frame, then take out hose ② on the outlet side of the PPC circuit strainer.
2. Remove cap ④ from strainer case ③, then take out strainer ⑤ and wash it in light oil.



NOTICE

Install the strainer with its cover side on the deeper side.

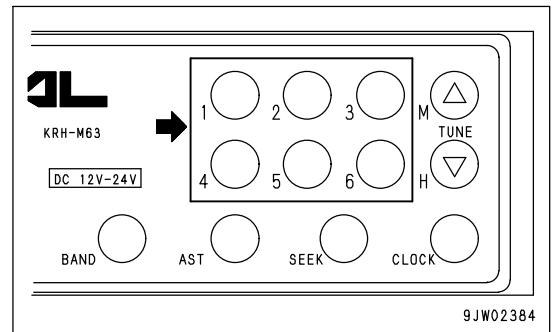
3. Install the strainer in strainer case ①, and install it with the bolts.
4. Operate blade control lever to the FLOAT position, and when the cylinder reaches the end of its stroke, hold it there for one minute.
5. Operate blade control lever to the RAISE position, and when the cylinder reaches the end of its stroke, hold it there for one minute.
6. Bleed the air from the hydraulic circuit. For details, see "24.9.1 CHANGE OIL IN HYDRAULIC TANK, REPLACE HYDRAULIC FILTER ELEMENT".



For details of the procedure for bleeding air from the hydraulic circuit, please contact your Komatsu distributor.

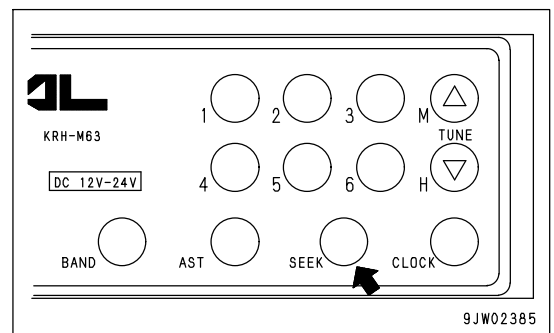
6. PRESET BUTTON (1, 2, 3, 4, 5, 6)

With this switch, each button can be set to one station each for FM and MW (AM). (For details of the method of resetting, see "METHOD OF SETTING PRESET BUTTONS".)



7. SEEK

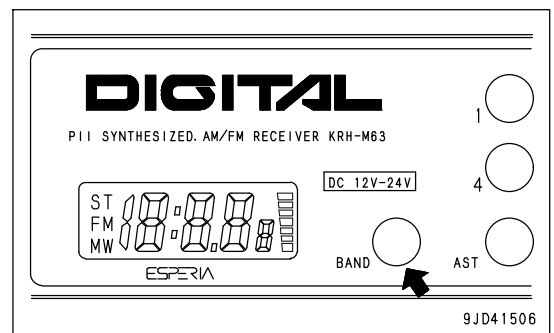
When this switch ("SEEK") is pressed, it automatically searches for stations that can be received, and when it receives station, it stops.



8. BAND SELECTOR SWITCH

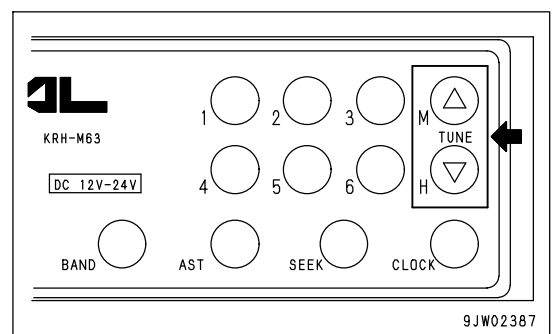
When this switch ("BAND") is pressed, the band is switched between FM and MW (AM).

The reception band and frequency are displayed on the display.



9. TUNING SWITCH

When the "TUNE" button Δ of switch is pressed, the frequency goes up; when the ∇ button is pressed, the frequency goes down. If it is kept pressed, the frequency changes continuously.



CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL