

AAA-M65J2T02-986
(93107-00031)



65ZIV -2

AAA-M65J2T02-986



OPERATION & MAINTENANCE MANUAL

WHEEL LOADER

65ZIV -2

WITH ISUZU 6BG1 ENGINE

SERIAL NUMBERS
65J2-7101

WITH ISUZU A-6BG1 ENGINE

SERIAL NUMBERS
65J3-7001

NOTICE

READ AND UNDERSTAND THIS MANUAL
BEFORE OPERATING AND SAVE THIS
MANUAL ON THE MACHINE

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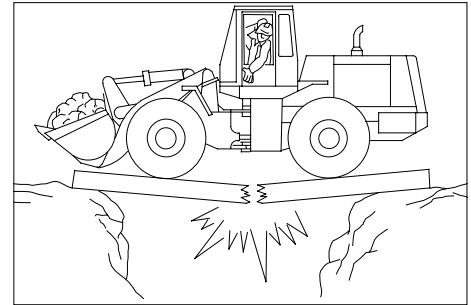
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SAFETY

Before crossing a bridge, make sure that the capacity of the bridge is greater than the weight of the machine and any load it may be carrying.

Check for enough clearance before entering a building, doorway, tunnel, under wires or other structures.

Do not expose the machine to flames.



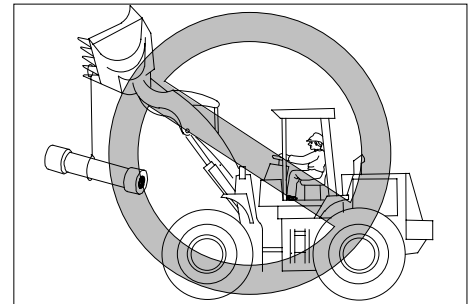
SAFETY DURING NORMAL OPERATIONS:

Vision to the rear on any machine is limited. Always use special caution when backing up.

Know the machine limits and do not exceed them.

Using the machine for purposes other than specified in the Operation & Maintenance Manual may create hazards that are not mentioned in this manual.

Do not use the machine as a crane where the safety of the operator or other workers are involved.



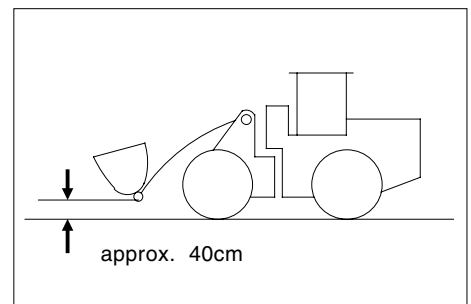
Properly counterweight and ballast the machine depending upon the bucket size and material or attachment application. Do not exceed the recommendations and limits.

Maintain stability by carrying the load as low as possible throughout each cycle.

- The normal carry position is about 40 cm above the ground.

When roading the machine:

- Travel in forward only.
- Travel only as fast as conditions and safety allow.
- Know and follow all local laws that may require rotating beacon, slow moving vehicle (SMV) signs, width signs or flags, lead or chase vehicles, four-way flashers, or clearance lights, etc..



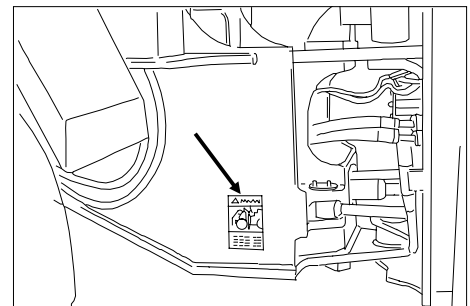
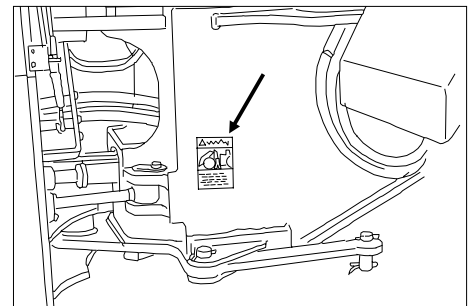
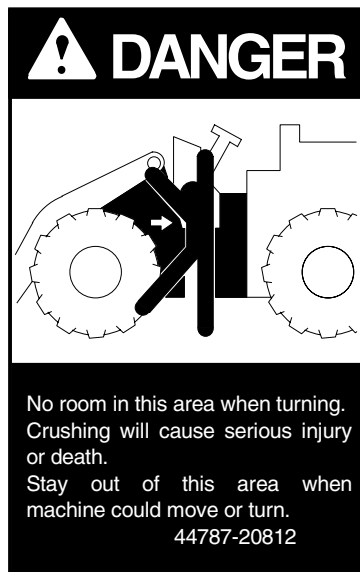
SAFETY

Safety Signs

All safety signs which are on the machine are shown here. Read them and understand them thoroughly. They contain information which is important for the safe operation and the safe maintenance. Follow the directions on the safety signs carefully.

It is very important that all safety signs be on the machine in the locations shown. If any sign is missing, damaged, or worn, get a replacement from your Kawasaki loader dealer and install it in the correct position.

NOTE: The sample safety signs in this section have part numbers to help you and your dealer obtain the correct replacement.



Emergency Steering (option)

WARNING

Operation without normal steering could cause loss of control and injury or death.

If emergency steering works, steer machine IMMEDIATELY to safe location and stop it.

Emergency steering works automatically when the steering hydraulic pressure goes down or the engine stops while the machine is moving.

When the steering hydraulic pressure goes down while the engine is running, the steering hydraulic warning lamp lights up.

Refer to "Steering Hydraulic Warning Lamp" page 45.

If the Emergency Steering works:

1. Keep the starter switch in the "ON" position even when the engine unexpectedly stops.
2. Immediately operate the steering wheel to bring the machine to a road shoulder or safe location.
3. Stop the machine. If necessary, use the emergency brake or lower the attachment to stop the machine.
4. Place wheel chocks in front of and behind the tires to prevent the machine from moving.
5. Contact your local Kawasaki loader dealer for necessary testing and repair.

ROPS (Roll Over Protective Structure) Cab (option)

WARNING

Operating with damaged or improperly mounted ROPS cab could cause serious injury or death. Be sure to observe the following.

- **Whenever seated, fasten the seat belt. (If equipped)**
- **Do not modify ROPS cab, such as drilling or welding.**
- **Do not use ROPS cab deformed.**
- **If any damage or loose bolts are found, do not operate until repaired.**
- **Never repair or modify ROPS cab without manufacturer's approval and instructions.**

6. Transmission Cut-Off Selector Switch

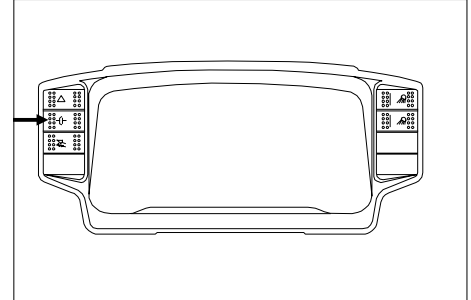
Transmission cut-off selector switch is used to change the function of the left brake pedal.

Normally this switch should be "ON".

"OFF" ...When the left brake pedal (declutch brake pedal) is depressed, only the service brakes are engaged keeping the transmission directional clutch engaged. (brake only)

"ON"When the left brake pedal (declutch brake pedal) is depressed, the service brakes are engaged and the transmission directional clutch is disengaged (brake and declutch).

Refer to "Brake Pedals" page 32 for the function of the left brake pedal.



CAUTION

Transmission cut-off feature momentarily places transmission in neutral which may allow machine to roll when on a grade.

Do not turn transmission cut-off selector switch to "ON" when operating on a grade.

7. Front Wiper Switch (option)

Front wiper switch is used to wipe the front windshield and spray solvent.

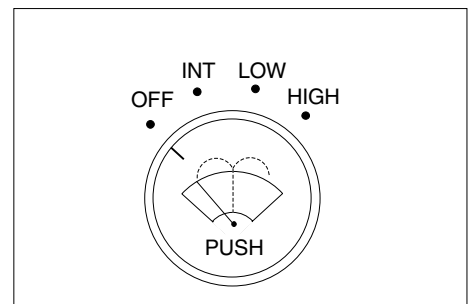
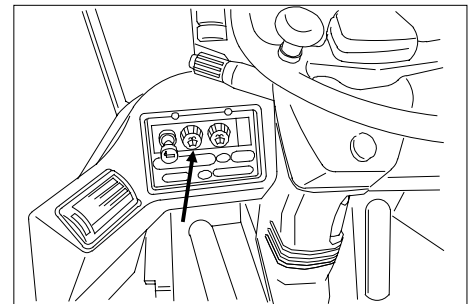
"OFF" :

"INT" : Intermittent

"LOW" : Low speed

"HIGH" : High speed

"PUSH" : Spraying solvent on the windshield



OPERATOR'S AREA

Seat

Seat Adjustment

Adjust the seat for comfort and so that the pedals may be pushed fully down when the operator's back is fully back.

⚠ WARNING

Unexpected movement of seat could cause loss of control and result in death or serious injury.

Stop machine before adjusting seat position.

Reclining

Tilt adjustment lever (1) forward to freely set the seat back angle.

Forward / Backward

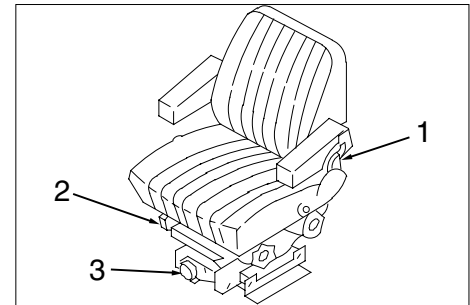
Shift adjustment lever (2) to the left to move the seat, forward or backward.

Suspension

Turn adjustment knob (3) to suit your own body weight.

Right turn to the end (max) : 120kg

Left turn to the end (min) : 50kg



Seat Belt (option)

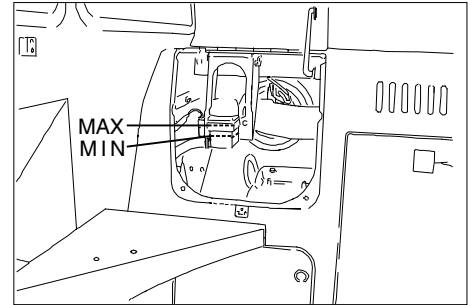
⚠ WARNING

Improper use or maintenance of seat belt could result in death or serious injury.

- **Inspect seat belt and mounting hardware before operating machine and replace any defective components.**
- **Always fasten seat belt when operating machine.**
- **Properly adjust seat belt at beginning of each shift or when operator changes.**

OPERATION

1. Check the brake oil level in the brake oil reservoir using the sight gauge.
2. It is normal if the oil level is near to "MAX" when machine is cold.
3. If needed, add the required amount of the same brand oil as originally filled.
Refer to "Recommended Lubricants" page 135 for the suitable oil.



⚠ WARNING

Using improper brake oil (vegetable oil, DOT3 brake fluid, etc.) can cause loss of braking which could result in death or serious injury.

Use only brake oil recommended in section "Recommended Lubricants" page 135.

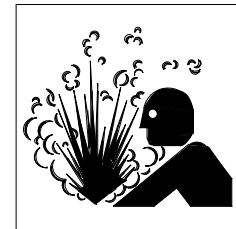
D. Check Hydraulic Oil Level

⚠ CAUTION

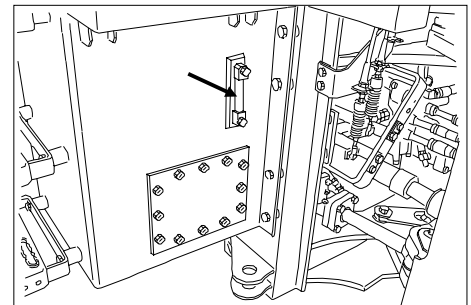
Pressurized hydraulic tank is used for this machine.

Pressure may throw tank cap and hot oil out of tank causing injury or burns.

Vent all pressure by pressing cap before opening.



1. Lower the attachment to the ground.
2. Stop the engine.
3. Check the oil level gauge on the side of the hydraulic oil tank.
4. The oil level is OK if the oil reaches the middle of the level gauge.



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D. Check Service Brake Operation

1. Firmly depress the right hand brake pedal.
2. Release the parking brake.
3. Select the transmission shift lever 2nd and FORWARD.
4. Slowly accelerate the engine to full speed.
5. The machine should not move.

IMPORTANT
If machine moves when firmly depressing right hand brake with transmission in 2nd and FORWARD, there is some problem with service brake.
Do not operate until problem has been corrected.

E. Check Parking Brake Operation

1. If the service brakes work normally, test the parking brake.
2. Move the machine to a safe open place on a slope.
3. Stop the machine with the service brake.
4. Pull up the parking brake switch.
5. Release the service brakes.
6. The machine should not move.

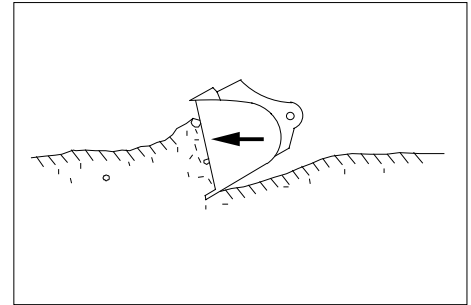
IMPORTANT
If machine moves when parking brake switch is pulled, there is some problem with parking brake.
Do not operate until problem has been corrected.

F. Check Horn Operation

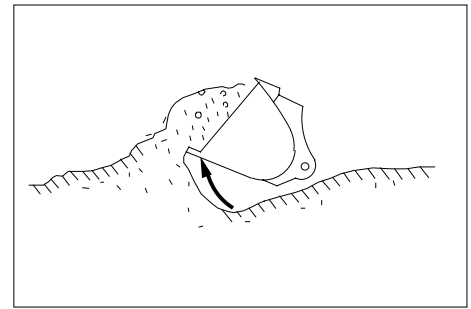
1. Push the horn button in the center of the steering wheel.
2. The horn should sound loudly.

OPERATION

3. Lower the bucket parallel to the ground or dump it slightly forward.



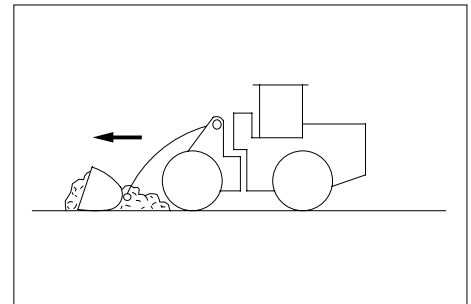
4. Run the machine slowly in 1st or 2nd speed. Increase engine speed as the bucket digs deeper.
5. When the bucket is filled, move the bucket control lever to the "Roll Back" position.



6. Move the boom control lever to the "Raise" position to clear the ground.

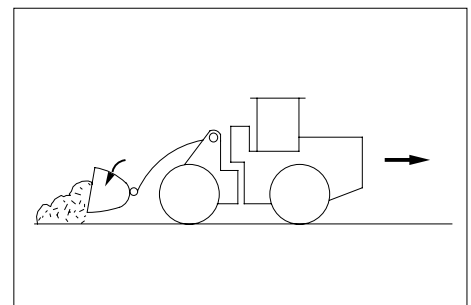
Dozing

IMPORTANT
Dozing or pushing with dumped bucket or attachment may cause severe damage to linkages.
Keep bucket or attachment bottom parallel to ground.



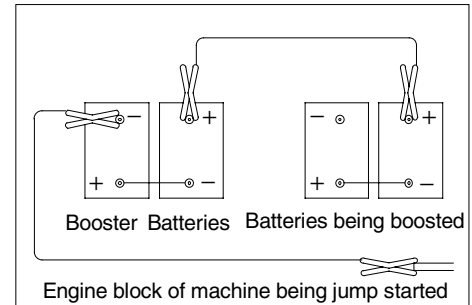
Ground Leveling

1. Keep the loaded bucket slightly above the ground.
2. While running the machine backward, dump the bucket little by little to evenly spread material on the ground.



SPECIAL PROCEDURES

4. Move back the protective rubber covers (red) from the positive post (+) of the battery.
5. Connect one end of the red jumper cable to the positive post (+) of the discharged battery.
6. Connect the other end of the red jumper cable to the 24 volt side of the booster battery set or power source.
7. Connect one end of the black jumper cable to the ground side of the booster battery set or power source.
8. The final connection should be the remaining end of the black jumper cable to the engine block or frame away from the battery compartment on the machine being jump started.
9. Start the booster machine's engine or turn the auxiliary power source on.
10. Allow a few minutes to provide partial charge to the discharged batteries.
11. Start the machine being boosted as described on "Starting the Engine" page 62 .
12. As soon as the engine starts, disconnect the jumper cables in the reverse order (Step 8, Step 7, Step 6, Step 5).
13. Remove the damp cloth and replace the protective covers over the battery terminals and close the battery box covers.
14. Test the starting / charging system to determine the cause of the problem and correct it.

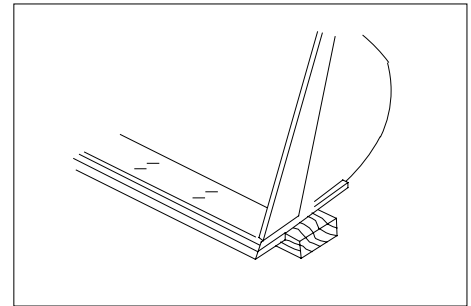


WHEN REQUIRED MAINTENANCE

9. For non-Kawasaki buckets or teeth, consult the manufacturer for the proper procedures.

B. Replace Cutting Edge (option)

1. Park the machine on a level ground and apply the parking brake.
2. Raise the bucket to a convenient height and put blocks under the bucket to prevent it from coming down.
3. Stop the engine.
4. Remove the cutting edge. Clean all contact surfaces (bottom of bucket, top of cutting edge).
5. If other side of the cutting edge is not worn, turn it around and install it so that the new side faces the front. If both sides are worn, install a new cutting edge.
6. Install all bolts and tighten them to 71 ~ 85kg · m.
7. Retighten them after a few hours operation.

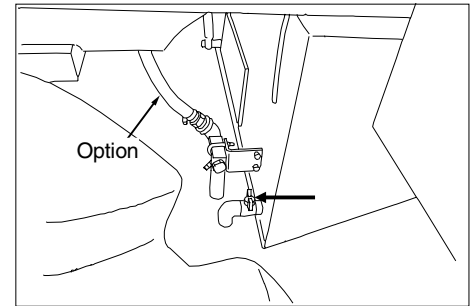


C. Check and/or Replace Seat Belt (option)

1. Inspect the condition of the seat belt and all mounting hardware frequently.
2. Replace the seat belt or any part of the mounting hardware if it is damaged.
3. Replace the seat belt every three years regardless of its condition or appearance.

EVERY 50Hrs. MAINTENANCE

3. Open the drain cock or drain plug of the fuel tank.
4. Drain water and sediment along with fuel.
5. Close the drain cock or replace the plug.
6. Dispose of the drained fuel and water properly.
7. Add fuel.



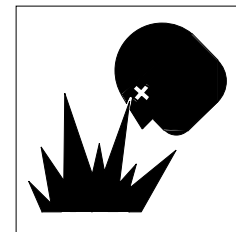
NOTE: To reduce water and sediment build up in the tank, refuel the machine at the end of each shift.

C. Check Battery Electrolyte Level

WARNING

Batteries produce explosive gases which could cause burns or blindness.

- Ventilate area to remove explosive gases.
- Wear eye or face protection when working on or around batteries.
- Keep flames and sparks away from batteries.

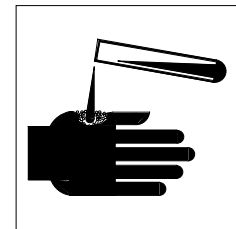


CAUTION

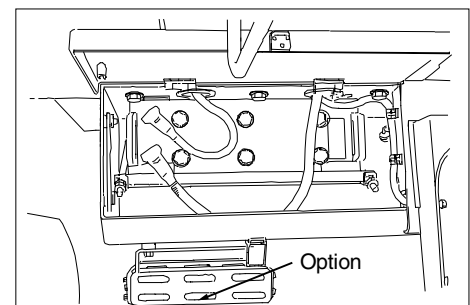
Batteries contain acid which may cause burns.

Avoid contact with skin or clothing and wear eye or face protection when working on or around batteries.

If acid contacts skin or clothing, immediately wash with water.



1. Park the machine on a level ground, apply the parking brake, lower the attachment to the ground, and stop the engine.
2. Clean the battery surface with a clean cloth or soft brush.
3. Check the battery electrolyte level in each cell. Electrolyte should cover the cell plates.



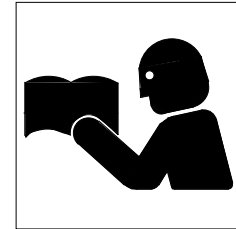
EVERY 500Hrs MAINTENANCE

Every 500 Hours or 3 Months Inspection and Maintenance

⚠ WARNING

Improper inspection or maintenance could result in death or serious injury.

Read, understand, and follow all warnings and instructions contained in "Safe Maintenance" page 11 before performing any inspection or maintenance procedures.



Every 500 hours or 3 months, whichever comes first, perform the following inspection and maintenance in addition to the "Daily", "50 hours", and "250 hours" inspection and maintenance.

A. Replace Fuel Filter

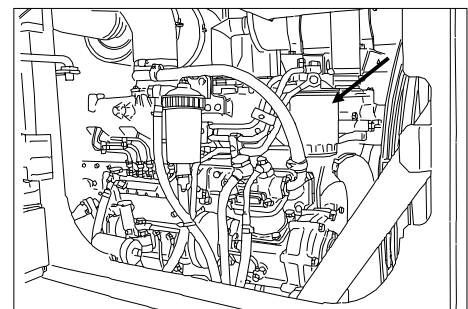
⚠ CAUTION

Escaping fuel is flammable and harmful to skin.

- Do not smoke while draining moisture and sediment from fuel filter.
- Do not drain with engine running.
- Do not allow fuel to remain on skin for extended period of time. Wash thoroughly with soap and water.

Replacement :

1. Park the machine on a level ground, apply the parking brake, lower the attachment to the ground, and stop the engine.
2. Place a small drain pan (about 1 liter) under the fuel filter.
3. Remove and properly dispose of the fuel filter.
4. Clean the filter head gasket surface.
5. Apply a light film of clean engine oil to the gasket surface of the new filter.
6. Fill the filter with clean fuel.
7. Install the filter on the filter head. Turn it until the gasket contacts the filter head surface.



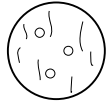
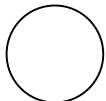
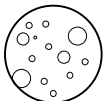
EVERY 1000Hrs MAINTENANCE

4. Set the temperature control switch fully to the cool position and fully open the cab doors.
5. Slightly accelerate the engine to about the middle speed range (compressor speed 1500-1800rpm.)
6. Compare the flow of bubbles in the sight glass with the drawings in the following table.

CAUTION

Overfilled refrigerant may cause dangerous high pressure and poor cooling action; and low refrigerant level may cause compressor damage.

Always maintain refrigerant in normal level.

Amount of refrigerant	Appearance of the sight glass	Solutions
Normal	 <p>Almost clear. Any bubbles disappear if the engine speed is increased to 1,500.</p>	
High	 <p>No bubble is seen.</p>	Contact your local Kawasaki loader dealer for inspection and recharging refrigerant.
Low	 <p>A flow of bubbles is visible.</p>	

H. Check and Adjust Engine

Contact your nearest Kawasaki loader dealer or local Isuzu diesel engine dealer for checking and adjusting the following items:

- Engine Compression Pressure
- Injection Pressure
- Injection Timing

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