

HITACHI

Training Text

LX70-7 LX80-7

Operation

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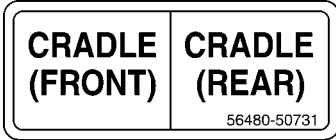
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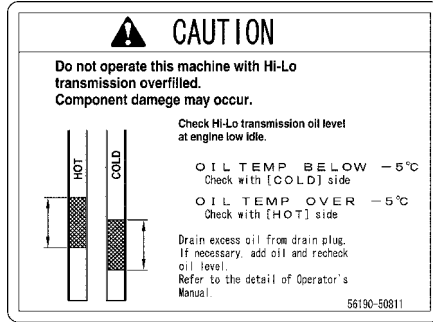
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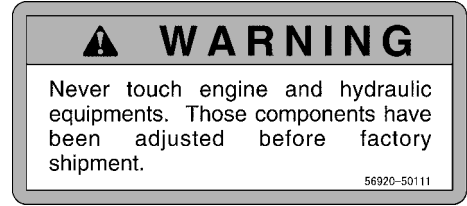
11 Left Side of Rear Frame



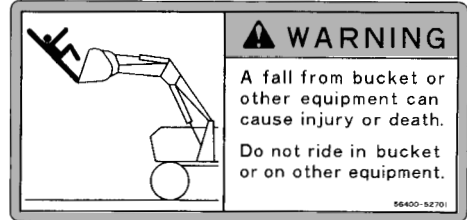
12 Left Side of Rear Frame



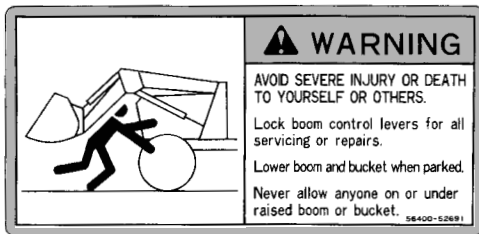
13 Left Side of Seat Mount



14 Bucket (right/left)



15 Boom (right/left)



16 Front Cover

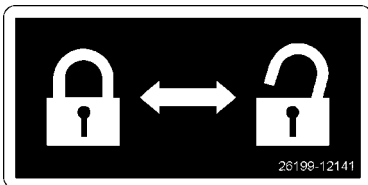


17 Inside Fuse Cover

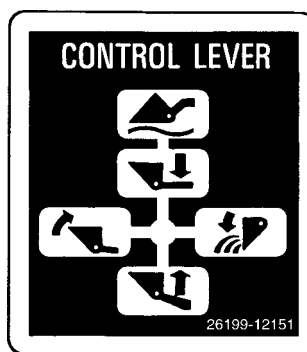
WORK LIGHT (R) RELAY W1		P. BRAKE RELAY (1) R11		56190-51001	
T/W HI-Lo Sol. RELAY R5	LOADLAMP RELAY R4	P. BRAKE RELAY (2) R3	ENG STOP MOTOR RELAY R2	NEUTRAL STARTING RELAY R1	
F-R R Sol. (R) RELAY R10	BACK-UP LAMP RELAY R9	F-N-R R RELAY R8	F-N-R F RELAY R7	HOOR RELAY R6	
	WIPER RELAY W3		WORK LIGHT (L) RELAY W2		

15	10	5	5	5	15	10	5	5	5
10	10	10	20	15	15	10	5	15	10

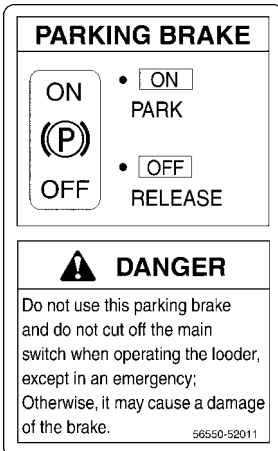
18 Left Side of Valve Control Box



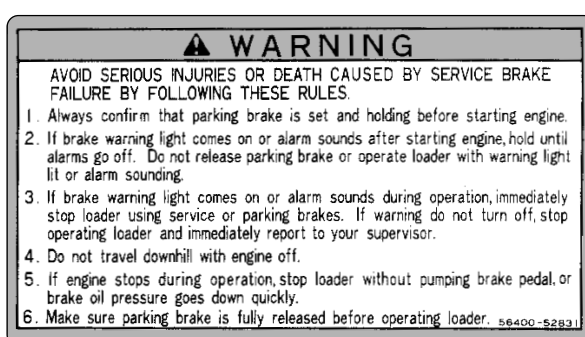
20 Starter Motor

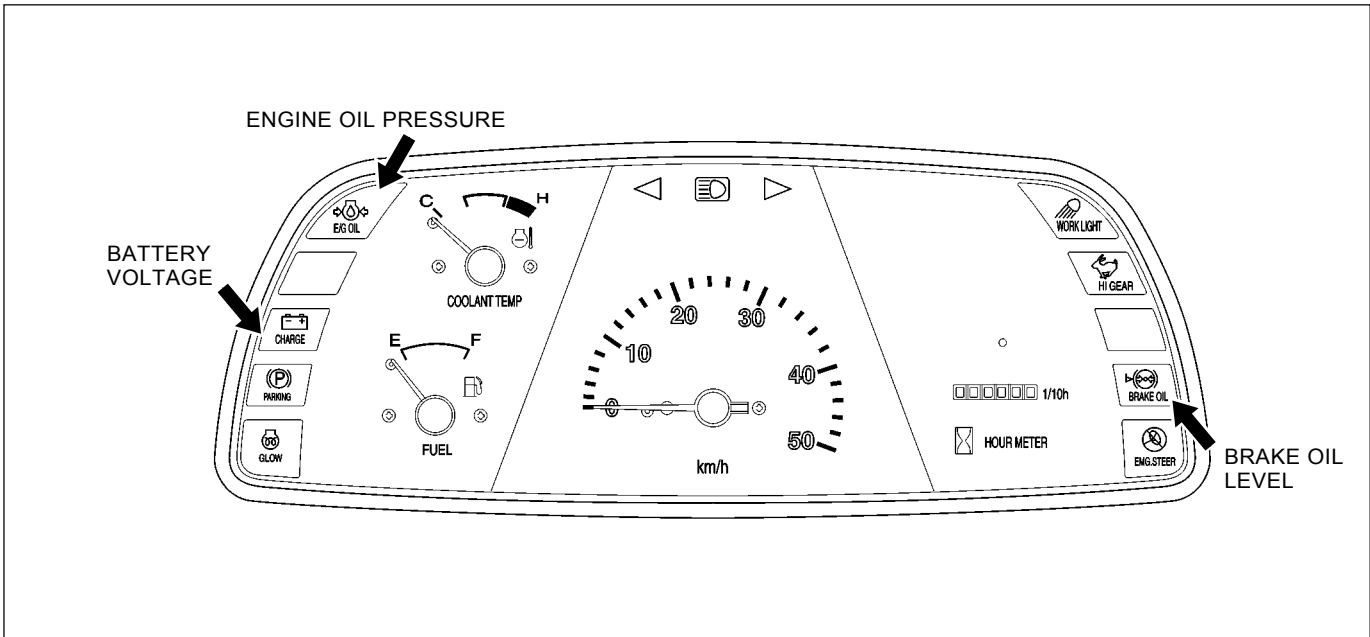


19 Top of Valve Control Box



21 Top of Valve Control Box





MONITORS

The red monitor lights indicate that the corresponding units or systems are not working properly or need to be serviced; the green (blue) monitor lights indicate that the corresponding units or systems are working properly.

When the starter switch is turned to the ON position, the three monitor lights (engine oil pressure, battery charge, brake oil level) come on. If any light fails to come on, it suggests that the bulb is burned out. When the starter switch is turned further to the START position, the engine will start and the three monitor lights go out in a few seconds. If any monitor light stays lit, check the corresponding unit or system.

CAUTION

If any monitor light comes on during operation, stop the operation and check the cause immediately.

E/G Oil

Light comes on when the engine lubrication oil pressure drops below the specified value. It also comes on when the engine oil filter becomes clogged.

Charge

Light comes on when the condition of battery charge is insufficient.

LOAD HANDLING LEVER

⚠ WARNING

- The load handling lever should be controlled by hand when you are properly seated. Never attempt to control the lever unless you are properly seated.
- Before leaving the loader, lock the load handling lever securely with the lever lock.

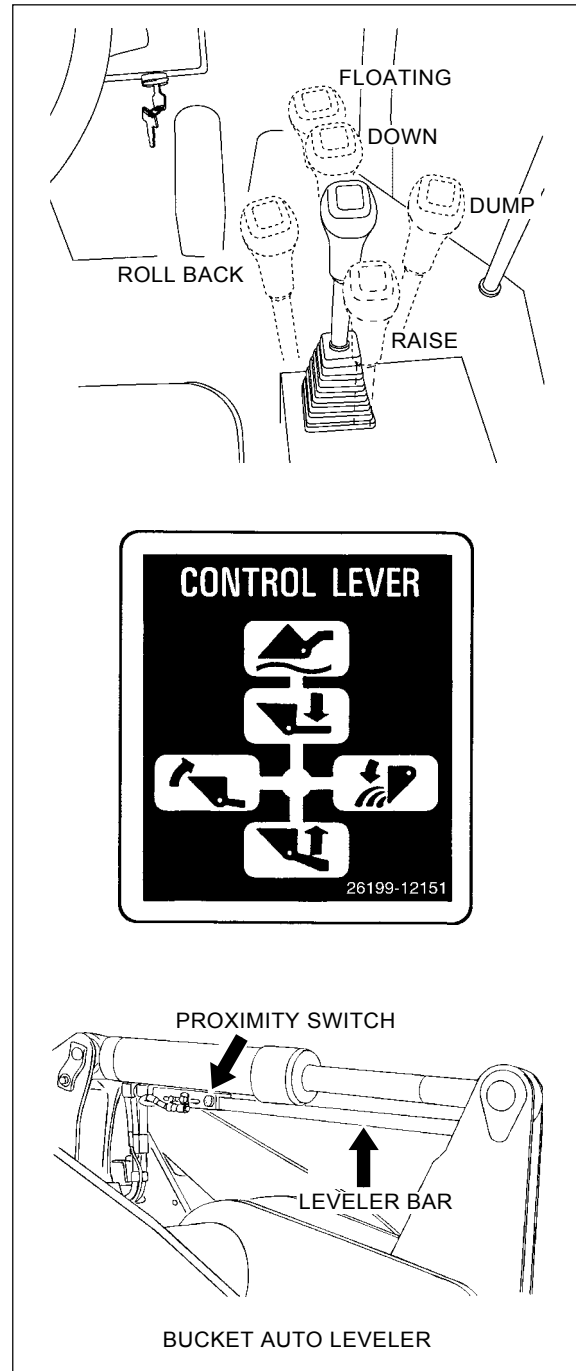
The load handling lever controls the boom and bucket cylinders.

Boom Control

- Push forward on the lever (toward the bucket) to lower the bucket. If the lever is further pushed forward, the bucket is put in the float mode where the bucket floats on the ground. The float mode is suitable for scooping or leveling.
- Pull backward on the lever (toward the engine) to raise the bucket.
- A detent mechanism is installed at the bucket float mode. (The lever is locked in that position.)

Bucket Control

- Move the lever to the right to dump the bucket.
- Move the lever to the left to roll back the bucket. Push the lever further to the left after dumping a load, the lever is locked there until the bucket is raised to the horizontal level. When the bucket becomes horizontal, the lever automatically returns to neutral (with bucket auto leveler).
- In the roll-back mode, a detent mechanism is installed. The detent mechanism won't operate when the bucket is rolled back.

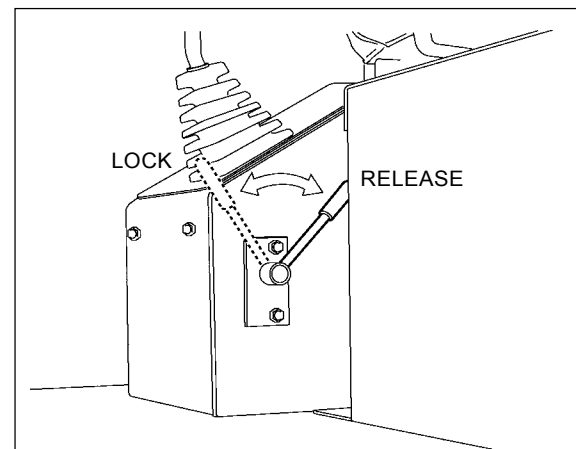


LOAD HANDLING LEVER LOCK

⚠ WARNING

Set the load handling lever lock before leaving the loader, to lock the load handling lever.

The load handling lever lock locks the load handling lever in neutral. The lever is locked by lowering the stopper.



⑦ Tuning Button Switches \triangle _w, ∇ _H

Press the \triangle switch to increase the frequency and the ∇ switch to decrease it. Press and hold down either switch to increase or decrease the frequency continuously.

Changing the stations programmed to preset switches:

Change the stations programmed to the preset switches in the following manner:

Select the station you want to change from among the 6 preset switches. Use the tuning switch \triangle or ∇ to select the frequency of the station you want.

Press and hold down the preset switch to which you want to program the station, for more than 2 seconds. The number of the preset switch appears on the display and the station is programmed to the preset switch.

You can also use the same manner to program other stations to the rest of the preset switches.

If the battery is removed from the loader, the contents in memory will be erased. You need to program the preset switches again.

⑧ Preset Switches (1 – 6)

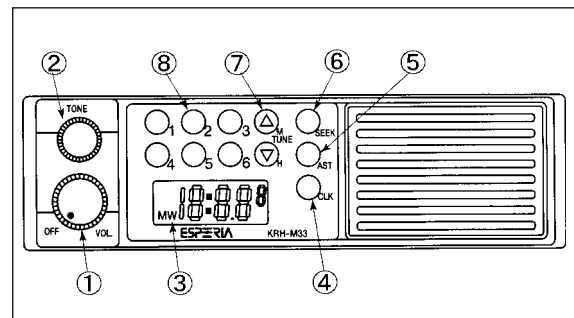
Press one of the preset switches to tune into the station you want, from among the stations programmed in memory.

⑨ Setting Time

Turn the starter switch on. If the display shows a radio frequency, press the CLK to display the time.

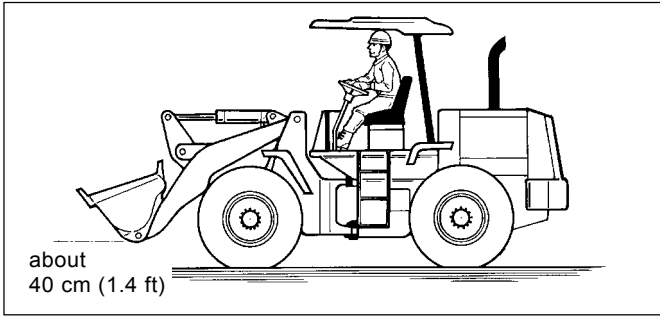
Press and hold down the CLK switch while pressing the \triangle switch to adjust the time in minutes.

Press and hold down the CLK switch while pressing the ∇ switch to adjust the time in hours.

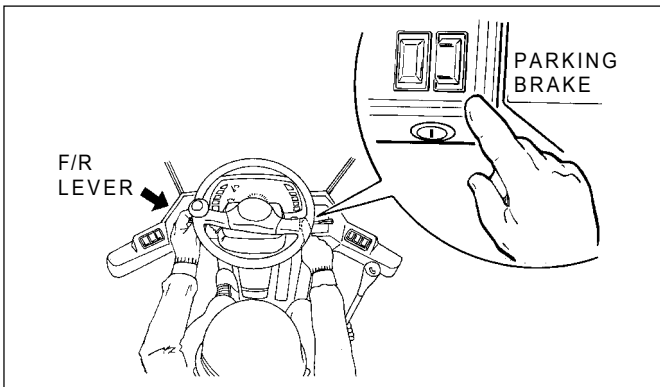


STARTING AND STOPPING THE LOADER

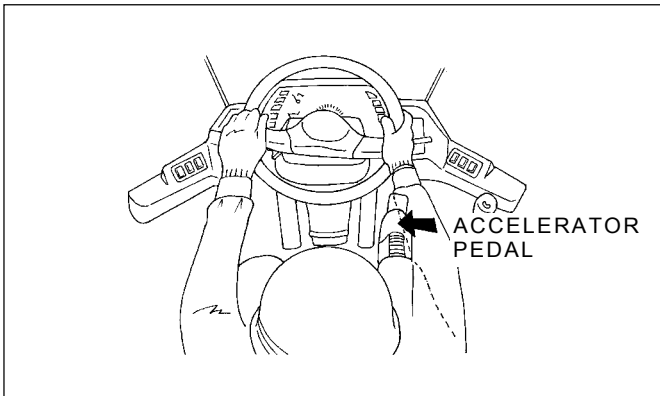
STARTING



Raise the booms and tilt back the bucket so that the loader gets ready for traveling.



Press the brake pedal and release the parking brake. Shift the F/R lever in the forward position.



Release the brake pedal while pressing the accelerator pedal slowly.

GEARSHIFTING (SPEED)



Select your design speed range using the F/R lever knob.

GEARSHIFTING (DIRECTION)

(Make sure no one is around the loader.)



You can reverse the direction of travel without stopping the loader.
Never try to reverse the direction of travel at a high speed; it is very dangerous.

TURNING



Holding the steering wheel knob turn the steering wheel in the direction you want to turn.



⚠ WARNING
Do not make turns at high speeds; otherwise the loader might upset. Turn the steering wheel a little to turn slowly.



⚠ CAUTION
When the steering wheel is turned fully in either direction, the front and rear frames swivel around the center joint of the loader. Do not try to turn the steering wheel farther; otherwise the engine might stall or the steering wheel unit might fail to operate properly.

If the inflation pressure is too low, the following troubles can occur:

- Large deflection. It will lead to separation or cord breaks due to the generation of heat.
- The development of cracks in side walls. Vulnerable to damage from the outside.
- Increased road resistance will increase fuel consumption.

If the inflation pressure is too high, the following troubles can occur:

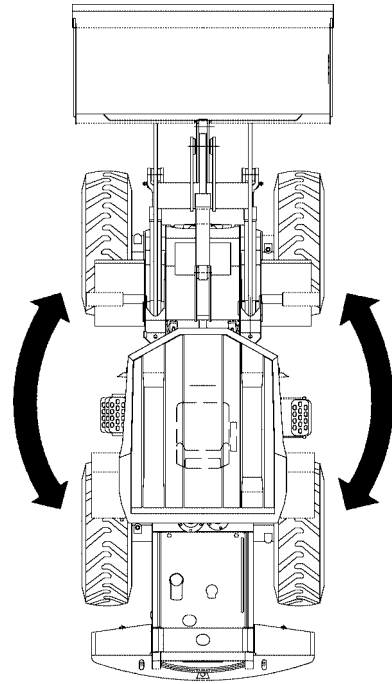
- The tread is susceptible to damage from the outside. Cut burst, shock burst or cord breaks will be apt to occur.
- The tires are apt to skid when starting or braking. The center of the tread wears prematurely.

CAUTION

Do not travel long distances over rough terrain. Use paved roads when traveling. This will prolong the tire service life and lead to safe travel.

WARNING

The wheels should have tires which are free from cuts and show less wear, because the tires sustain a lot more weight when loading, unloading and braking. Damaged or excessively worn tires can cause a puncture or burst, thus leading to personal injury or death.

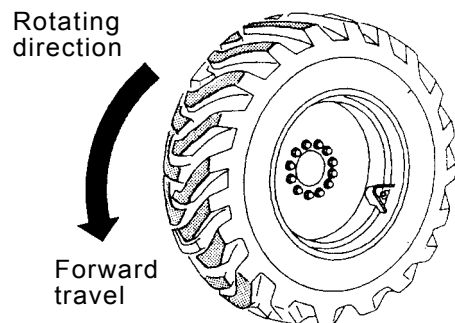


TIRE ROTATION

If one or both of the front tires show deeper wear than those of the rear tires, rotate the tires properly. This lets the tires wear uniformly, thus making it possible to prolong the entire service life of the tires.

How to rotate the tires:

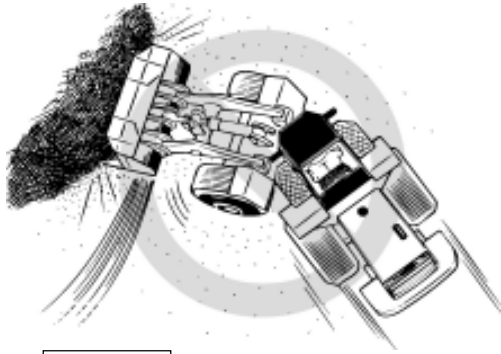
- Rotate the tires between the front and rear wheels. Do not swap the tires diagonally.
- All treads pattern must face forward. The traction pattern affects fuel consumption and the safety of travelling.



SAFE LOADING OPERATION

NOTE: The illustrations do not necessarily depict the LX70-7 or LX80-7. The safety rules and cautions however apply to any model.

12. When articulated in the middle, the loader is unstable and might roll over due to the application of undue force on the frames. Make sure the front and rear frame are aligned with each other before handling loads. Failure to do so can also cause a premature failure of the loader.



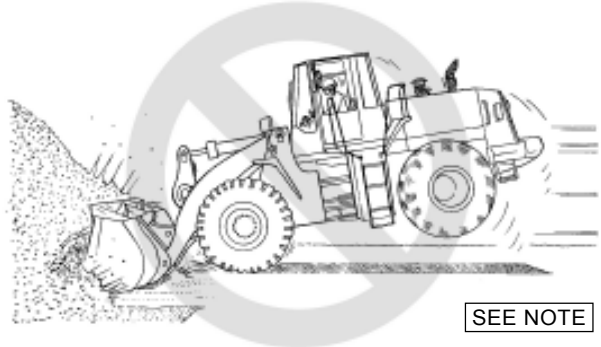
SEE NOTE

13. Do not try to lift the booms excessively high or perform work on grades, especially when the loader is not straight. Otherwise, the loader could tip over.
14. Remember that the loader is unstable when the bucket is raised high. Use appropriate caution and move slowly when loading and unloading.
15. When dumping the bucket, first slowly tilt the bucket forward and then dump the whole load at once, quickly. Do not stop dumping halfway through; otherwise the loader may tip over due to the reaction from suddenly stopping the bucket. In particular, if the bucket is stopped at the maximum range of its reach, the chances of the loader tipping over are high.



SEE NOTE

16. Don't drive into a pile of earth or material at high speed. You might be thrown out of the loader by the sudden stop. The loader can also be damaged.



SEE NOTE

17. Do not stand near a load handling operation. Some kinds of attachments move sideways as well as forwards and backwards.



SEE NOTE

18. When it is necessary to walk under the bucket or attachment for servicing or for any other reason, make sure to support the bucket or attachment with safety blocks and have another person present who stands clear of the loader.
19. Operators may get dust or sand in their eyes when working in a dusty area. Pay attention to the direction of wind, and wear goggles, if needed. When loading a trailer, approach the trailer from the side (at a right angle).



SEE NOTE

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