

HITACHI

TTLA-0489-LX

Training Text

LX130-7/160-7/190-7/230-7

Operation

 **Hitachi Construction Machinery Co., Ltd.**
Technical Training Center

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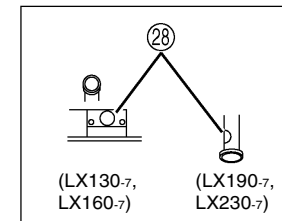
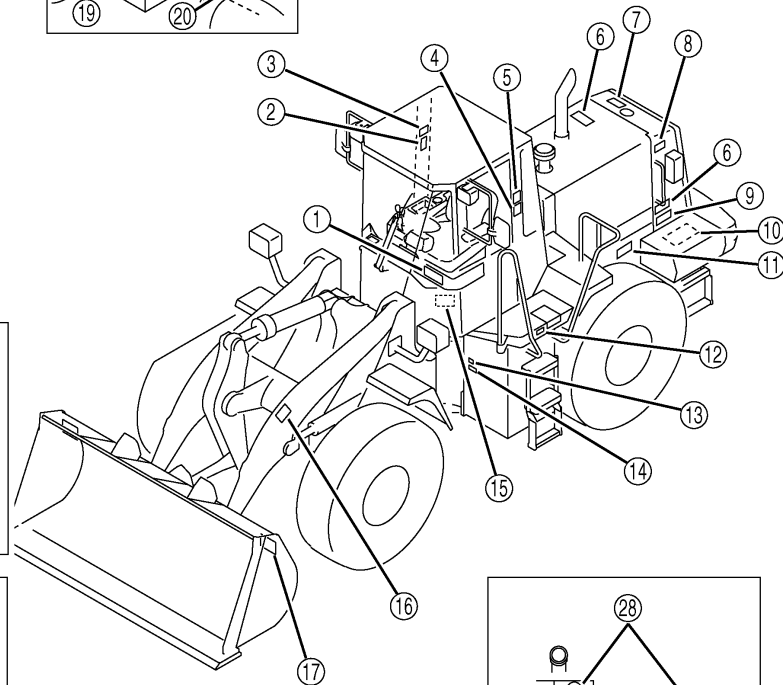
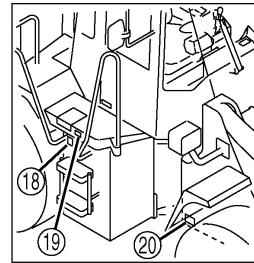
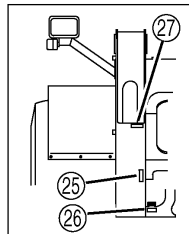
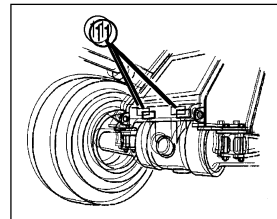
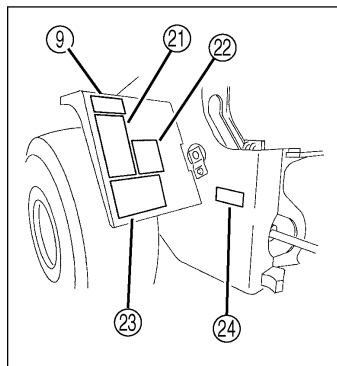
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DECALS (MACHINE SIGNS)

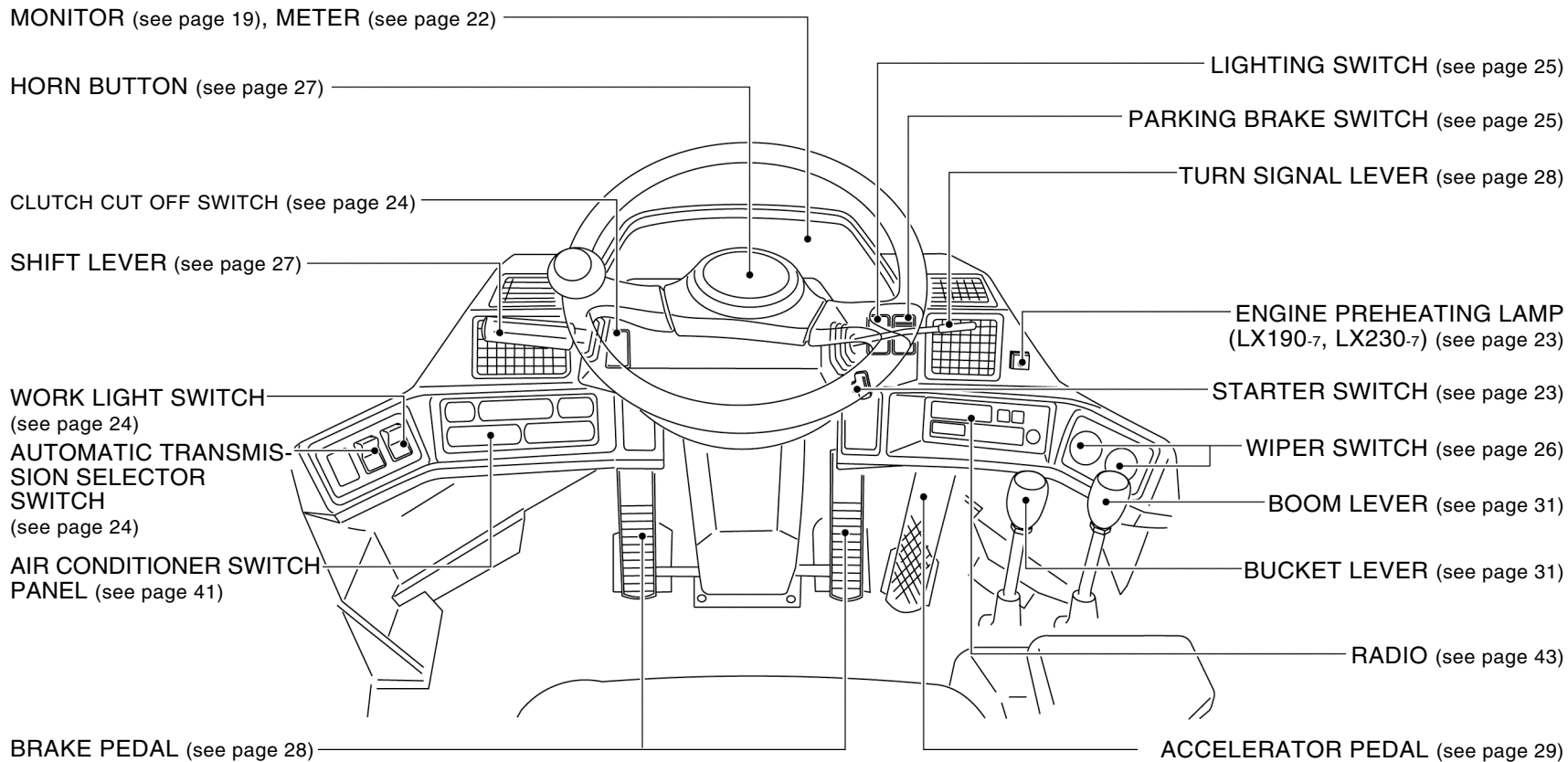
⚠ WARNING

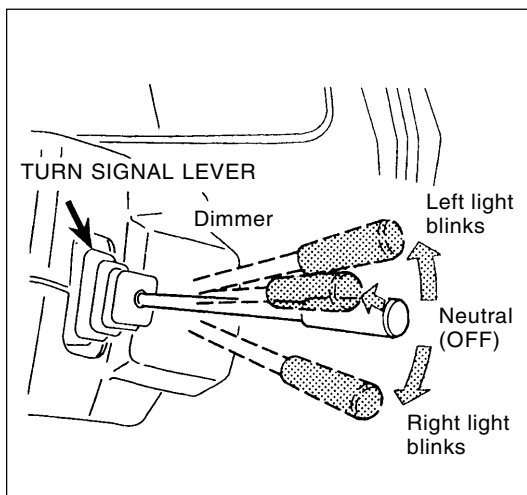
The operator must read the warnings on the loader and in this manual before trying to operate the loader.

There are three kinds of decals attached to the loader: ones for operation of the loader, ones for maintenance of the loader; and ones for safety. Follow the instructions on the decals. Damaged or missing decals must be replaced with new ones. All decals are available from your authorized dealer.



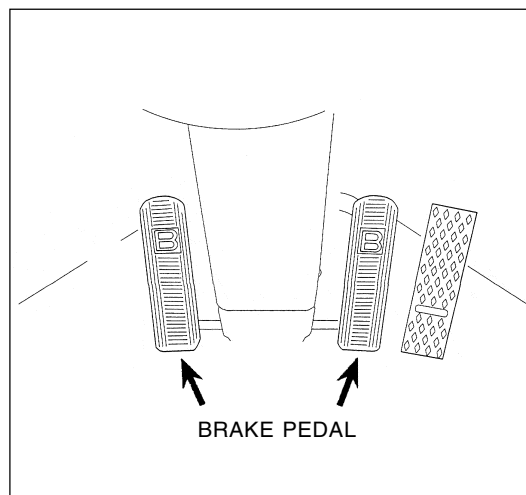
INSTRUMENTS AND CONTROLS





TURN SIGNAL LEVER (W/ DIMMER SWITCH)

Use this lever to indicate the turning direction of the loader. When the lever is placed in a turn position, the turn signal light blinks. By lifting the lever, the head lights will dim. When the lever is operated, the corresponding monitor lamp also comes on. Don't fail to return this lever to neutral after making a turn.

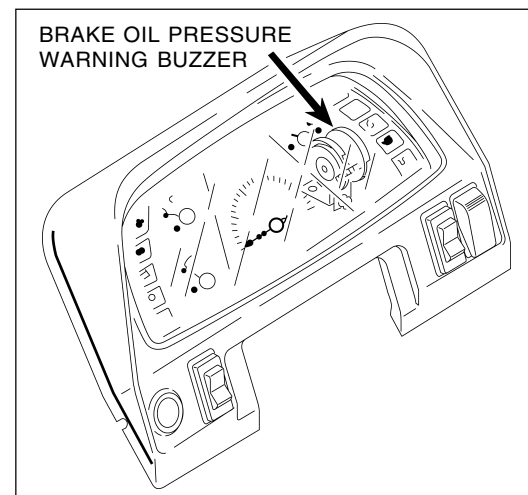


BRAKE PEDALS (RIGHT AND LEFT PEDALS INTERLOCKED)

⚠ WARNING

- When descending on an incline, slow down the loader by using both the brake pedal and engine braking. Using the brake pedal too often might lead to insufficient oil pressure, thus making it difficult to brake the loader.
- Do not put your foot on the brake pedal except when necessary.

Pressing the brake pedal applies the brakes to the loader. The operating modes of the brake pedal can be switched over between travel mode and load handling mode by using the CLUTCH CUT OFF switch. (See page 24).

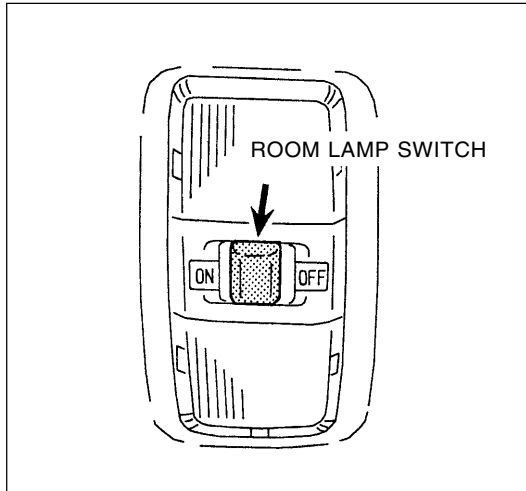


BRAKE OIL PRESSURE WARNING BUZZER

⚠ WARNING

If the brake oil pressure warning buzzer sounds, stop the operation, place the shift lever in neutral, apply the parking brake, and lower the bucket on the ground. Let the engine run at medium rpm and wait until the buzzer stops sounding.

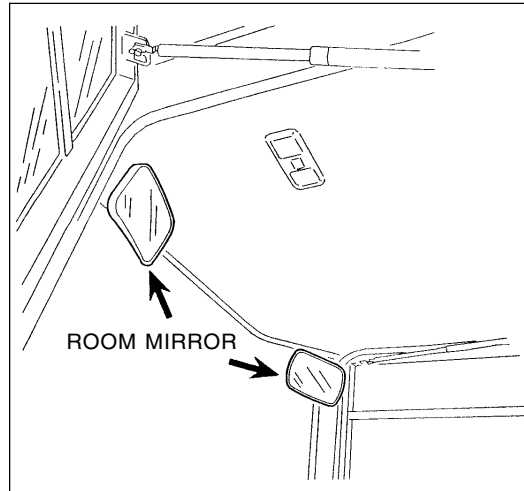
The buzzer sounds and monitor light comes on when the brake oil pressure in the accumulator drops below the specified value.



ROOM LAMP

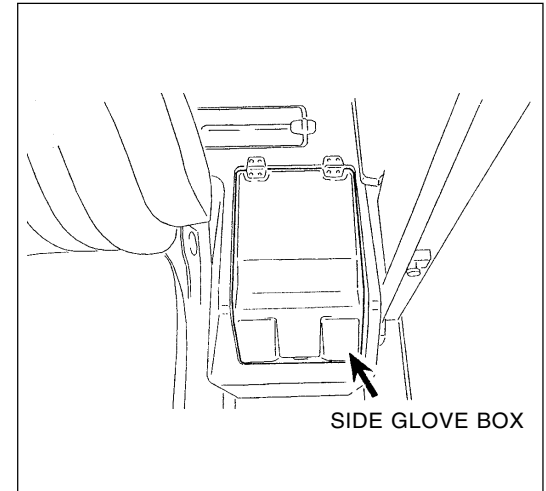
A room lamp is equipped on the ceiling of the cab. You can turn the lamp on and off by shifting the switch. With the switch in neutral, the lamp turns on and off, interlocked with the operation of the door. The lamp turns on when the door is opened.

Remember to turn off the lamp before leaving the loader.



ROOM MIRROR

A large room mirror is equipped inside the cab. Adjust it to gain full rear view before starting the loader.

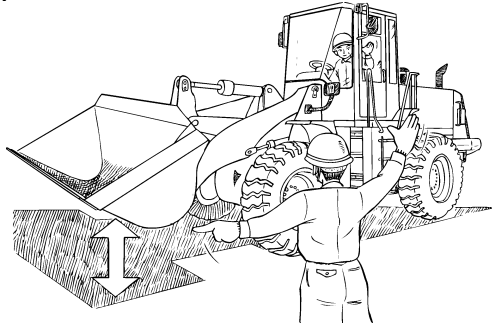


SIDE GLOVE BOX

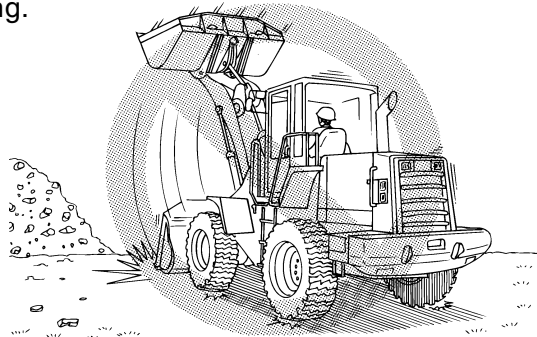
⚠ CAUTION

The side glove box cover is transparent and made of a soft material. Do not press it forcibly or put a heavy object on it.

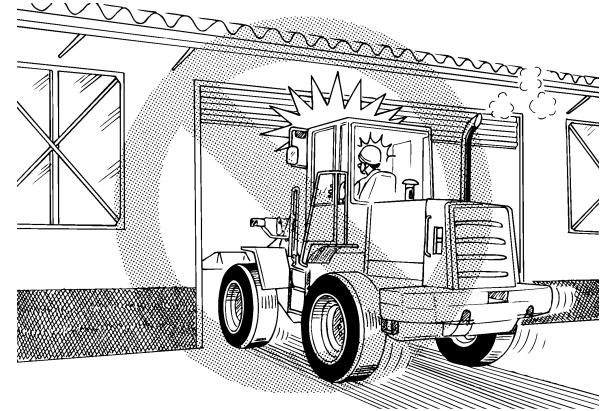
10. Do not lift the bucket or front attachment more than necessary.
Keep the loading equipment at minimum ground clearance height during traveling.
See page 55 for the basic traveling posture of the loader.



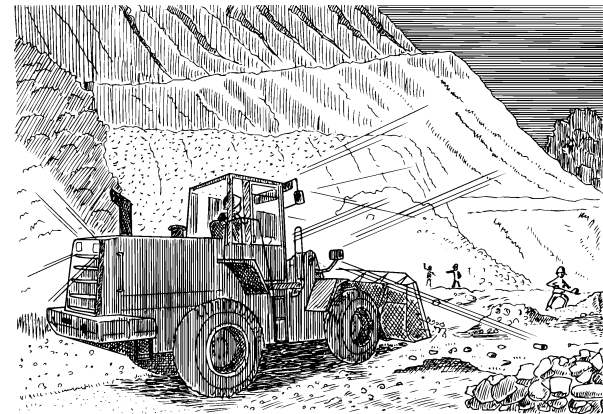
11. It is dangerous to travel with the bucket higher than is appropriate regardless of whether loaded or not.
Keep the bucket at minimum ground clearance height.
12. Always brake to a full stop before reversing the direction of travel.
13. Never play games with the loader. Operate the controls smoothly -- don't jerk the steering wheel. Avoid sudden stops, starts, or turns.
14. Do not manipulate the bucket or front attachment too abruptly. There is danger of loads dropping or the loader upsetting.



15. When traveling through doorways ensure that there is sufficient clearance for the loader, operator and load.



16. Slow down at night. Judging distances and the level of the ground is more difficult at night. Use head lights and clearance lights to let other workmen know you are coming.



REVERSING THE DIRECTION OF TRAVEL

If you want to reverse the direction of travel using the shift lever alone, without using the brake pedal, it is good practice to place the gears in 2nd speed range. If the direction of travel is reversed when the gears are in 4th or 3rd speed, the transmission automatically shifts down to 3rd or 2nd speed. This prevents the seizure of the clutch unit.

WARNING

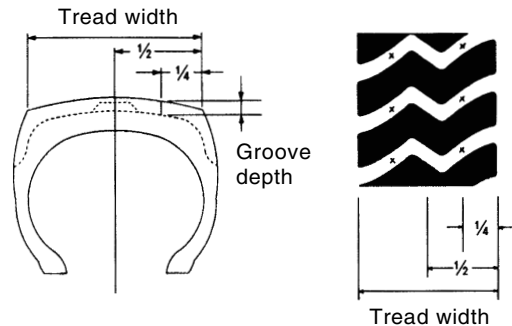
When reversing the direction of travel, make sure there is no one around the loader.

CAUTION

- You cannot reverse the direction of travel when the traveling speed is higher than a certain level.
- The 4th speed lamp blinks and buzzer sounds when you try to reverse the direction of travel at a speed higher than a certain level. Slow down the loader and reverse the direction of travel with the gears in 3rd or 2nd speed.

How to check the extent of tire wear

Measure the extent of wear at an area 1/4 of the tread's outermost part. (points marked x)



The useful limit (replacement time) is when the tire is worn 85% compared to a new one. Replace any tire showing excessively uneven wear or a cord layer exposed to view with a new one, even if it is not worn 85%.

REMOVING AND REINSTALLING TIRES

⚠ WARNING

A tire with a wheel is heavy. Servicing it is difficult and dangerous. It also needs a hoist for removing and reinstalling tires. It is advisable to ask your authorized dealer or a specialist to the work.

If you are going to jack up the loader for tire maintenance, observe the following conditions:

- Park the loader on dry, flat and hard ground.
- Carry out the work by at least two people: one for working on tires and one as a helper who also keeps bystanders to stand near the loader.
- Do not use the bucket to raise the front wheels.
- Jack the loader up just enough to remove tires. Do not raise the loader too high.
- Block the rear wheels when you are about to remove the front wheels and block the front wheels when you are about to remove the rear wheels.

- Be sure to use supports under a jacked-up loader. Do not try to keep the loader raised up with a jack or jacks.
- The rear axle may cradle. To prevent this, wedge a rigid squared timer between the axle and frame.
- When removing the wheel bolts, the one at the top position must be removed last, with the tire lifted with a hoist.
- The tightening torque of the wheel bolts is 773 N·m (78.8 kgf·m) (570 ft-lbs).

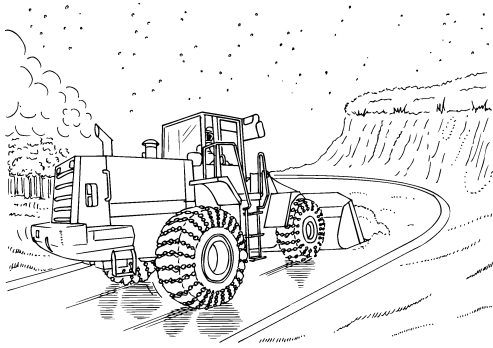
WHEELS

⚠ WARNING

When disassembling of a tire and rim assembly is needed, ask a specialist.

Remove rust (if any) from the rim. An excessively rusty rim often indicates the development of cracks. Replace such a rim assembly.

22. When performing snow removal, make sure to install tire chains on all four wheels.

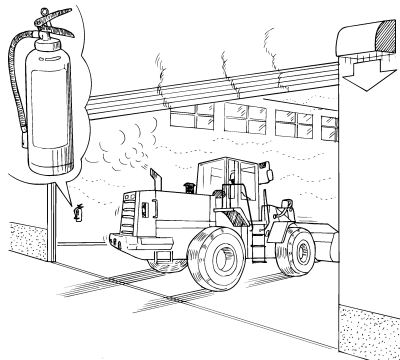


23. Avoid sudden starts, stops, and turns on snowy or icy roads. Drive slowly.

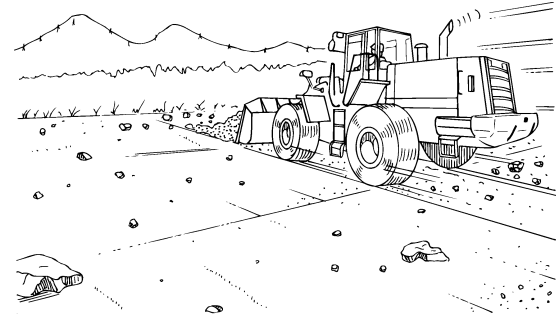
24. Know where the ditches and curbs are before starting snow removal.

25. Make sure there is good ventilation when working in an enclosed area. Exhaust fumes can kill.

26. Have fire protection equipment handy whenever working indoors. Replace old fire extinguishers with new ones at the specified intervals.

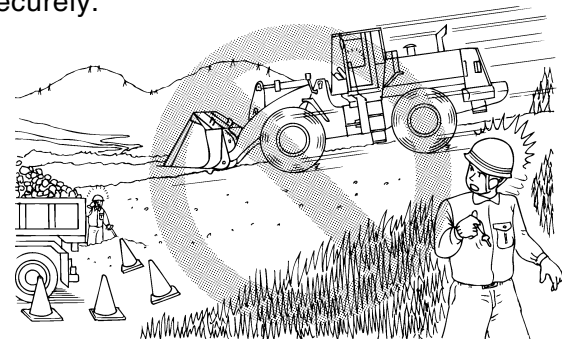


27. Check the surface over which you will run. Clear away debris or anything that might cause you to lose control, bog down or tip over.



28. Do not leave the loader unattended in the middle of work, especially on a grade or in a city area. The loader might be vandalized or boarded by children. If it is unavoidable to leave the loader unattended, make sure to:

- Lower the bucket on the ground and apply the parking brake.
- Place the load handling lever in neutral and set the lever lock.
- Remove the starter key and block the wheels securely.



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