CAT® Lift Trucks

Operation & Maintenance Manual

FC/MC

GP40N	ET40-00011-up	DP40N	ET12B-00011-up
GP45N	ET29D-50001-up	DP45N	ET19D-50001-up
GP50CN	ET29D-80001-up	DP50CN	ET19D-80001-up
GP50N	ET33C-50001-up	DP50N	ET28C-50001-up
GP55N	ET33C-80001-up	DP55N	ET28C-80001-up

Keep this manual in your lift truck as a ready reference **99730-67110**

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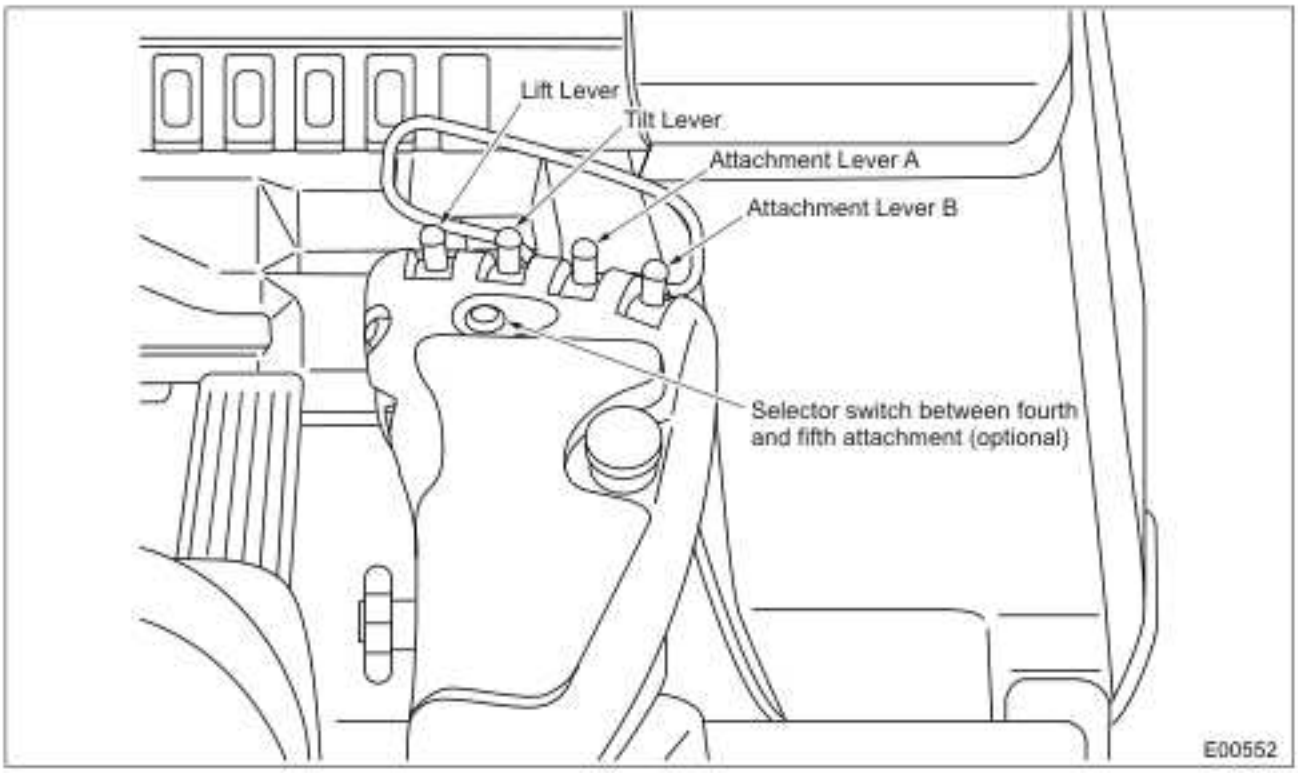
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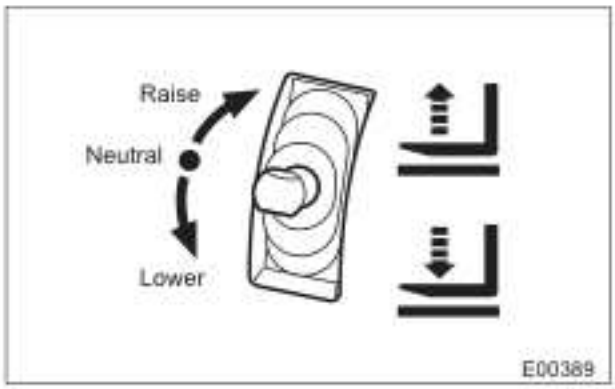
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◆ Operating Switches and Controls (FC Model)



•Lift Lever

Lifting speed is controlled by the speed of the engine (the position of the accelerator pedal) and the position of the lift lever. Lowering speed is controlled only by the position of the lift lever regardless of the speed of the engine.
The lever will return to the neutral position when released.



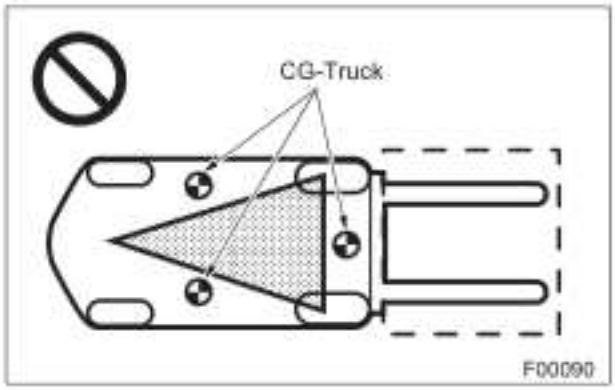
Equipped with mast interlock system

If the operator leaves the operator's seat for 3 seconds while the key switch is in the | (ON) position, regardless of whether the engine is running or not, the mast will not lift or lower if the lift lever is operated. This is not a failure, but the interlock system is activated.
If the operator sits on the operator's seat while the key switch is in the | (ON) position with engine stopped, the mast can be lowered.

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◆ Lift Truck Stability Base

In order for the lift truck to be stable (not tip over forward or to the side), the CG must stay within the area of the lift truck stability base—a triangle drawn between the front wheels and the pivot of the rear axle.

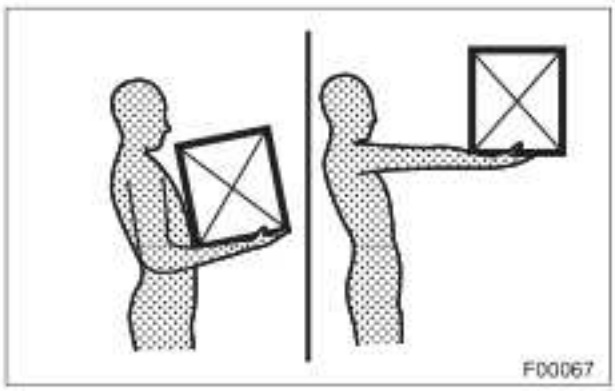


If the CG moves forward of the front axle, the lift truck will tip over forward.

If the CG moves outside of the line on either side of the stability base, the lift truck will tip over to the side.

◆ Capacity (Weight and Load Center)

The capacity of the lift truck is shown on the capacity plate. It is determined by the weight and load center. The load center is determined by the location of the CG of the load.



The load center shown on the capacity plate is the horizontal distance from the front face of the forks, or the load face of an attachment, to the CG in the load. The location of the CG of the vertical direction is the same as the horizontal dimension.

Keep in mind that, unless otherwise indicated, the capacity shown on the capacity plate is for a standard lift truck with standard backrest, forks and mast, and having no special-purpose attachment. In addition, the capacity presumes the load center is no further from the top of the forks than it is from the face of the backrest.

If these conditions do not exist, the operator may have to reduce the safe operating load because the lift truck stability may be reduced.
The lift truck should not be operated if its capacity plate does not indicate capacity.

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◆ Every 10 Service Hours or Daily (Pre-Start), Whichever Comes First

You must read and understand the warnings and instructions contained in this manual before performing any operation or maintenance procedure.

•Faulty Operation Found the Day Before

- Have repairs been made properly?
- Check the daily inspection sheet.

⚠ WARNING

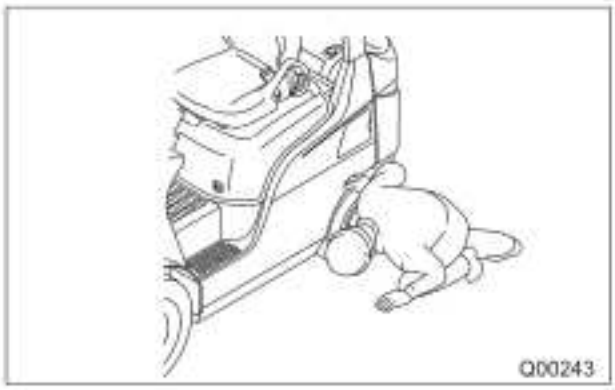
Fill out a daily inspection sheet.

Remember, the complete performance of a daily inspection is the best protection against injury and property damage.



•Oil, Fuel or Coolant Leaks

Check on the floor for oil, fuel or coolant leaks.



•Oil, Leaks and Damage of Piping

- Check on the floor for oil leaks.
- Inspect the piping for damage or cracks and also check that it is secure.

•Head Lamp and Working Lamp (if equipped)

- Are all the lamps in a safe working condition?
- Are their lenses clean and not defective?
- Do the tail and head lamps come ON properly when you switch them on?

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◆ LP-Gas Engine Equipped

⚠ WARNING

BE SURE to use the proper fuel specified on the service data. If not, the engine could fail.

⚠ WARNING

- Only trained and authorized personnel must fill or exchange LP-Gas tanks.
- Personnel engaged in filling LP-Gas tanks must wear protective equipment such as a face shield, long sleeves and gauntlet gloves.
- DO NOT refuel or store LP-Gas powered lift truck near underground entrances, elevator shafts, or other places where LP-Gas could collect in a pocket and cause an explosion.
- Inspect all LP-Gas tanks before filling, and again before reuse, for damage to the valves, liquid gauge, fittings and hand wheels.
- All defective or damaged LP-Gas tanks must be removed from service.
- The careless handling of LP-Gas tanks could result in a serious accident.
- To reduce the risk of damage to tanks, use extreme care when transporting them.

⚠ WARNING

The LP-Gas tank must not extend past the counterweight and must be inside the confines of the lift truck.

⚠ WARNING

Reduce the risks of fire caused by static electricity!

Touch grounded metals with bare hand to discharge the static electricity before changing compressed LP-Gas tanks. If not, the fuel could catch fire due to the static electrical spark.

⚠ CAUTION

LP-Gas tanks can be heavy, follow the instructions below:

- DO NOT insert fingers into the straps or brackets. If this warning is not adhered to, fingers may be pinched.
- DO NOT lift LP-Gas tank with your body in an improper position. You may injure your back.
- Take care not to drop an LP-Gas tank. It may fall on your body and lead to serious injury including bone fractures.
- Wear appropriate personal protective equipment.

⚠ CAUTION

Be careful not to pinch fingers in the bands when fitting.

Note:

- MOUNT THE TANK PROPERLY. To insure full usage of fuel, use the mounting holes located on the collar for horizontal mounting and the slot in the foot ring for vertical mounting.
- Open the valve slowly so that hose and tank pressure can equalize. Or the valve may shut off.
- For proper operation of LP-Gas system, use HD-5 LPB fuel.

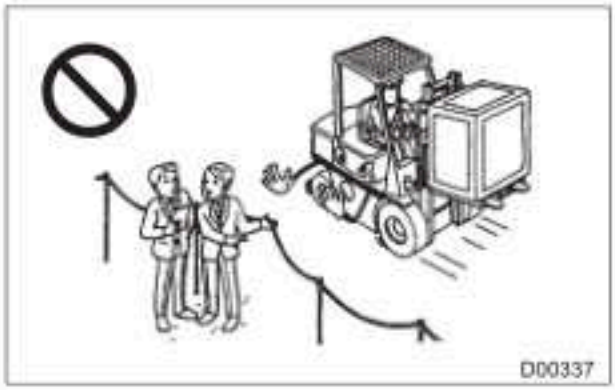
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◆ Working Precautions

Keep out!

⚠ WARNING

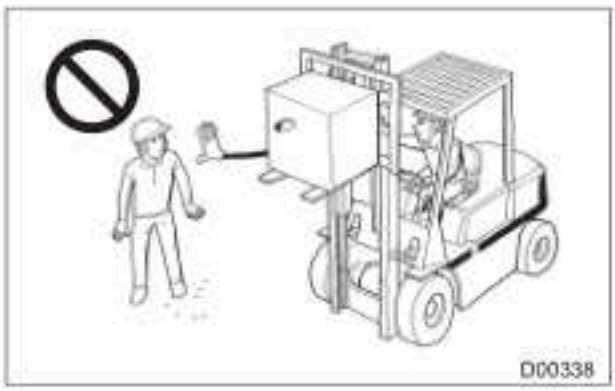
DO NOT allow any unauthorized persons in the work area where the lift truck is operated.



A helper must NOT be near the lift truck!

⚠ WARNING

Personnel must be clear of the lift truck operating area.



Be careful of changes in capacity!

⚠ WARNING

When attachments are used know the capacity. Extra care must be taken in securing, manipulating, positioning, and transporting the load. Operate lift trucks equipped with attachments as partially loaded lift trucks when not handling a load.



Watch out for pedestrians at all times!

⚠ WARNING

Yield the right-of-way to pedestrians at all times.



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