CAT® Lift Trucks

Operation & Maintenance Manual

MC/FC

GP40N	CT40A-00011-up	DP40NB	CT12D-00011-up
GP45N	CT29E-50001-up	DP45NB	CT19F-50001-up
GP50CN	CT29E-80001-up	DP50CNB	CT19F-80001-up
GP50N	CT33D-50001-up	DP50NB	CT28E-50001-up
GP55N	CT33D-80001-up	DP55NB	CT28E-80001-up

Original Instructions

Keep this manual in your lift truck as a ready reference

99730-6B120

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▶ Selector Switch Between Fourth and Fifth Attachment (Option, Type A)

For operation of the fifth attachment, operate the attachment switch B while pressing this switch.

▶ Lowering Speed Selector Switch (Option, Type A)

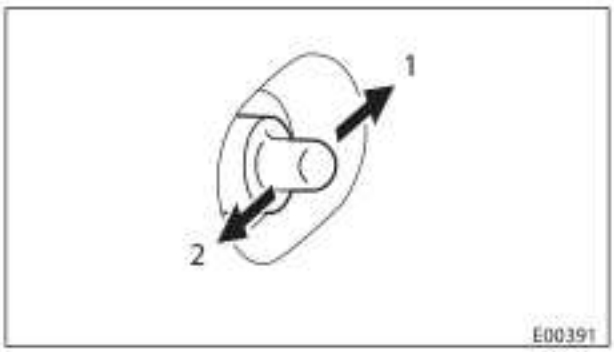
DO NOT touch the lift, tilt, or attachment switch when turning this switch ON or OFF.

SLOW speed

This position allows you to lower the forks at 70% of the normal or rated speed. Use this switch until you feel sure of what is going to happen when you move the lift control, or when you handle fragile loads.

NORMAL speed

This position allows you to lower the forks at the normal speed.



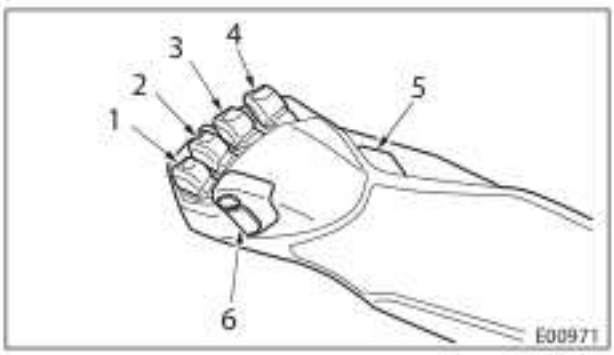
1. SLOW speed
2. NORMAL speed

▶ FC Control Box (Type B)

Equipped with mast interlock system

The mast interlock will work for the lift, tilt, and attachment switches.

If the operator leaves the operator seat for approximately 2 seconds while the key switch is in the ON position, regardless of whether the pump motor is running or not, the mast and attachment will not lift, lower, or tilt when the lift, tilt, or attachment switch is operated. This is not a failure, but the interlock system is being activated.

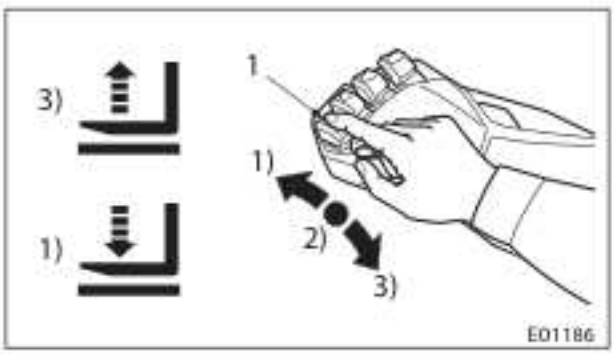


1. Lift switch
2. Tilt switch
3. Attachment switch A
4. Attachment switch B
5. Adjuster button
6. FNR switch

▶ Lift Switch (Type B)

Lifting speed is controlled by the speed of the pump motor and the position of the lift switch. Lowering speed is controlled only by the position of the switch lever regardless of the speed of the pump motor. The switch will return to the neutral position when released.

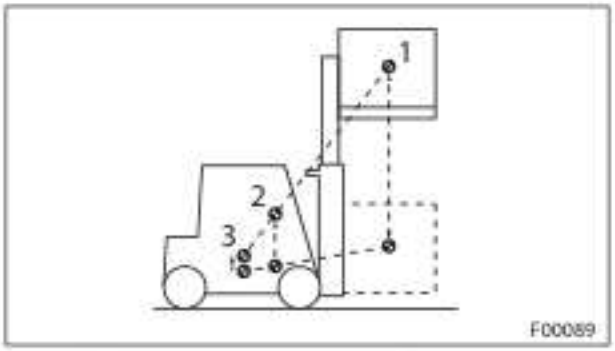
To deactivate the mast interlock system, the operator sits on the operator seat while the key switch is in the ON position with traction motor stopped. Return the lift switch to the NEUTRAL position and then operate the lift switch.



1. Lift switch
1) Lower
2) Neutral
3) Raise

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These factors must be considered when the lift truck is unloaded as well. Because an empty lift truck will tipover to the side more easily than a lift truck carrying a load in the lowered position.



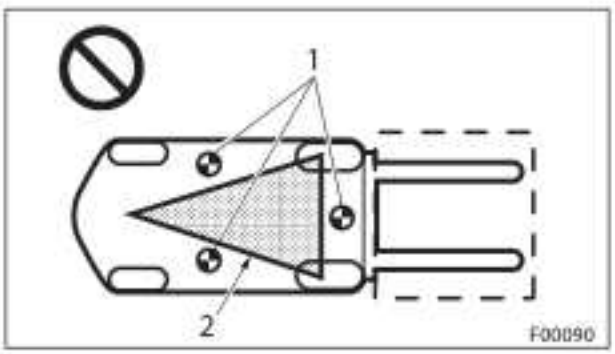
1. CG Load
2. Combined CG
3. CG truck

◆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 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 tipover to the side.

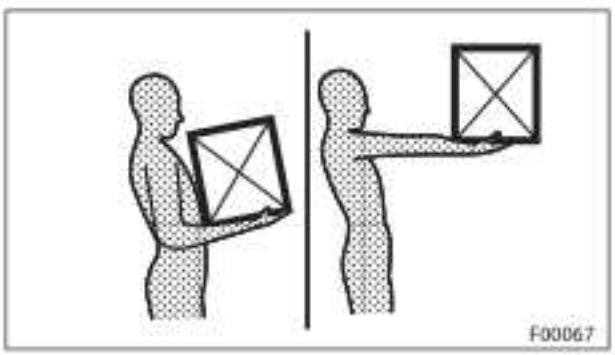


1. CG truck
2. Stability base

◆ 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 load backrest extension, forks, 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 load backrest extension.

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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◆One Month (30 days) or 200 Service Hours After Delivery of a New Lift Truck, Whichever Comes First

▶ Primary Fuel Filter (Diesel Model)

Replace

- Replace filter.

See 11-45 "Replace" of Primary Fuel Filter in the Every 1000 Service Hours.

▶ Secondary Fuel Filter (Diesel Model)

Replace

- Replace filter.

See 11-46 "Replace" of Secondary Fuel Filter in the Every 1000 Service Hours.

▶ Return Oil Filter and Wash Strainer in Hydraulic System

Replace

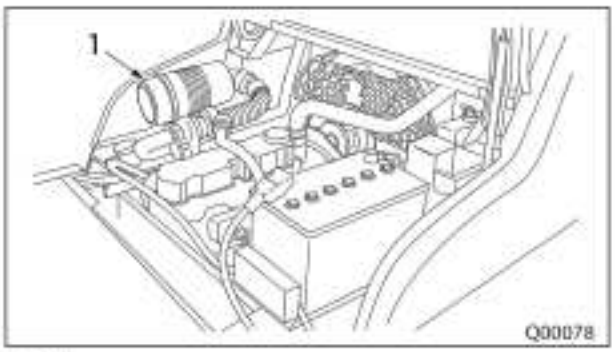
⚠ WARNING

Hot oil and components could cause injury. DO NOT allow hot oil or components to contact your skin.

At operating temperature, the hydraulic tank is hot and could be under pressure.

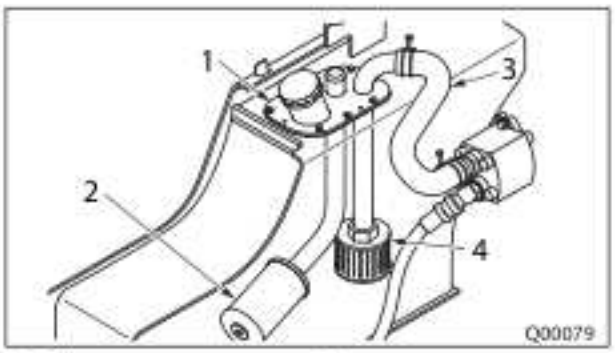
Note: Park the lift truck on level ground with the forks lowered until the forktips touch the ground, parking brake applied, direction lever in the NEUTRAL position, engine stopped and the wheels blocked.

(1) Raise the engine hood.
(2) Remove the air cleaner.



1. Air cleaner

(3) Remove the hose and tank cover.



1. Tank cover
2. Return oil filter
3. Hose
4. Strainer

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