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CLARK®

Operator's Manual

SE 15-25T

OM-747

IMPORTANT! Do not remove this manual from the lift truck.

JUN 2022 | REV 1.3

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Lift Truck Information

Model _____

Type _____

Serial No. _____

Truck Weight _____

Rated Capacity _____

Gross Weight _____

Component Serial Number

Drive Axle / Motor (left) _____

Drive Axle / Motor (right) _____

Steer Axle _____

Hydraulic Pump / Motor _____

Traction Controller _____

Steer Controller _____

Pump Controller _____

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YOU can prevent accidents

First: Know the rules of safe lift truck operation and the safety rules specific to your work area.

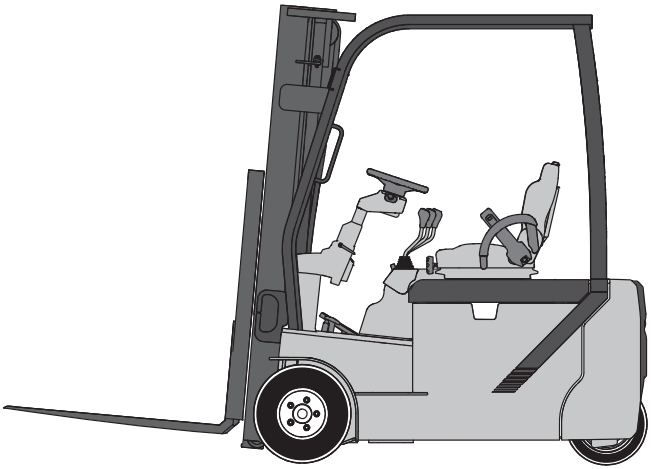
Next: Read the Operator's Manual. If you do not understand something, ask your supervisor.

LEARN about the lift truck you operate!

Know YOUR lift truck

Then: Operate your lift truck safely.

And: Keep your lift truck in a safe operating condition with correct and regular maintenance.



WARNING

If you do not follow these rules, there is a risk of injury or death.

IMPORTANT!

Do not expose this manual to hot water or steam.

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A Message to Operators

Your CLARK lift truck is a specialized machine with unique operating characteristics, and designed to perform a specific task. It requires specific instructions and rules for safe operation and maintenance.

Its function and operation is not like a car or ordinary passenger vehicle. Specialized instructions and rules are required to ensure safe and correct operation and maintenance.

The safe operation of our lift trucks is of utmost importance to CLARK.

Lift truck accidents are most commonly caused by...

- **An incorrectly trained operator.**
- **An inexperienced operator.**
- **An operator not obeying basic lift truck safety rules.**
- **A damaged or malfunctioning lift truck.**

For these reasons, CLARK wants you to know how to safely operate and properly maintain your lift truck.

The primary function of this manual is to help you learn how to safely operate your lift truck. This manual gives the correct safety rules and hazards of lift truck operation. It also identifies the special components and features of your specific lift truck and describes their function.

This manual is not a training manual, it is a resource to assist trained and authorized operators how to safely operate their lift truck by showing the correct procedures.

This manual does not include information about every possible condition that may result in an accident. Be aware of all possible hazards in your specific work area and be certain to correct or avoid them.

Always make sure that the lift truck is maintained to a safe, working condition. Do not operate a damaged or malfunctioning lift truck. Practice safe operation every time you operate your lift truck.

Let's set high standards in safety together!

Before beginning operation, make sure you understand the safe and correct operating procedures of your lift truck. It is your responsibility to operate the lift truck safely, correctly, and efficiently.

Know and understand that the federal Occupational Safety and Health Act (OSHA) and state, provincial, and local law, require operators to be trained and certified in the safe operation of their lift truck. It is an OSHA requirement that the lift truck be inspected BEFORE every shift. If you have not been certified (or need recertification) to operate or inspect your lift truck, tell your supervisor.

All CLARK lift trucks are designed and built to handle hard work, but not abuse from an operator. They are designed and built to be dependable, but are only as safe and efficient as the operator(s) and person(s) responsible for using and maintaining them.

Do not make repairs to any lift truck unless you have been authorized and properly trained to do so. For questions concerning the proper maintenance or repair of your CLARK lift truck, contact your CLARK dealer.

Only use genuine CLARK replacement parts and accessories to ensure optimal performance of your lift truck!

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Foreword

CLARK welcomes you to the growing group of professionals who own, operate, and/or maintain our lift trucks. We take pride in the tradition of high quality and superior value that the CLARK name represents.

This Operator's Manual has been specially prepared to help you use and maintain your CLARK lift truck in a safe and correct manner. It describes the safe operation, maintenance, and features unique to your CLARK lift truck. The safe and efficient operation of your lift truck depends on both operator skill and knowledge.

The operator must always...

- **Read and understand the safety rules described in this Operator's Manual.**
- **Read and practice the safe driving and safe load handling techniques shown in this manual.**
- **Know the construction and features of the lift truck and how they function.**
- **Know the capabilities and limitations of the lift truck.**
- **Ensure the lift truck is maintained to a safe working condition**

Your CLARK lift truck has been designed and built to be as safe and efficient as technology allows. As manufactured, it meets all applicable and mandatory design and construction requirements of the *ANSI / ITSDF B56.1 Safety Standard for Low Lift and High Lift Trucks*.

Importance of Routine Inspection and Maintenance

The regular care and proper maintenance of your CLARK lift truck is absolutely necessary to your safety. It also allows for a lower cost of ownership and optimal productivity. A damaged or malfunctioning lift truck is a potential source of danger to the operator, any personnel working nearby, and anyone else in the work area. Always keep your lift truck in a safe, operating condition by following the recommended service schedule described in the *Planned Maintenance* section of this manual.

Operator's Daily Inspection

You are required to inspect your lift truck daily and to ensure it is safe to operate. The importance of this *Daily Inspection* is described later in this manual. You can provide your own checklist sheet or your CLARK dealer can supply you with copies of a helpful *Operator's Daily Checklist*.

Planned Maintenance

In addition to the *Daily Inspection*, CLARK recommends that a *Planned Maintenance (PM)* program be performed by an authorized and properly trained technician. This safety and maintenance inspection and service will provide an opportunity to thoroughly examine the operating condition of your lift truck. Any *Planned Maintenance* can be scheduled through your CLARK dealer to meet your specific lift truck application and usage.

The *Planned Maintenance* program covers periodic inspections, checks, cleaning, lubrication, and minor adjustments. Any necessary adjustments and timely maintenance will be performed to maximize the service life of components and reduce unscheduled downtime. These procedures are described in detail in your lift truck's service manual. Your CLARK dealer can help with implementing a *Planned Maintenance* program and providing properly trained and authorized service technicians to keep your lift truck operating safely and efficiently.

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Always Practice Safe Operation

Incorrect lift truck operation can cause accidents. Do not operate an improperly setup, damaged, or malfunctioning lift truck.

Read and understand the procedures for safe driving and maintenance described in this manual. If you have questions, ask for assistance.

Stay alert and follow the rules, regulations, and procedures for safe lift truck operation. Avoid accidents by identifying and avoiding potentially dangerous procedures or situations.

Drive and work safely and follow the safety messages and warnings found in this manual and attached to your lift truck.

Safety Messages and Warnings

The **safety messages and warnings,** found in this manual and attached to the lift truck, identify specific areas where potential hazards exist. Make sure to **know and understand** the meaning of these instructions, symbols, and messages. Damage to the lift truck, serious injury, or death to you and/or other personnel may result if these messages are not followed.

NOTE
Provides helpful information related to procedures, equipment, tools, specifications, or other special data.

CAUTION
There is a risk of damage to the lift truck or nearby objects.

WARNING
There is a risk of injury or death to the operator or nearby personnel.

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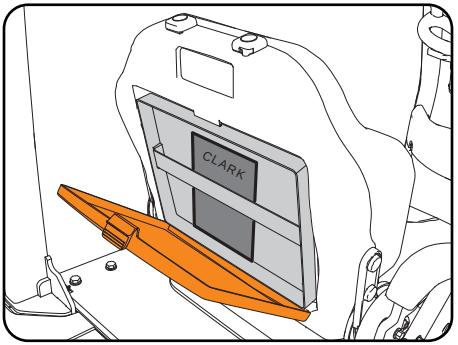
How to Use this Manual

The Operator's Manual contains important information about the safe operation, features, functions, and maintenance of your CLARK lift truck.

IMPORTANT!
Read the Operator's Manual before operating your lift truck.



- All descriptions, images, and specifications in this Operator's Manual were correct at the time of printing.
- CLARK Material Handling Company reserves the right to make improvements and changes to the specifications and/or design, without notice and without incurring obligation. Contact your authorized CLARK dealer for information on possible updates or revisions to this or any other CLARK technical information.
- The examples, illustrations, and descriptions in this manual are intended to help improve your skill and knowledge as a professional lift truck operator and to take complete advantage of the capabilities and features of your lift truck.
- Read and understand the information located in the *General Safety Rules* and *Operating Hazards* sections of this Operator's Manual.
- Follow the instructions and procedures about how to correctly maintain your lift truck, including recommended service intervals and component capacities.
- Safe and careful driving is your responsibility! Drive defensively and always be aware of other personnel who are working nearby. Know your lift truck's capabilities and limitations.
- Follow all IMPORTANT, CAUTION, WARNING, and DANGER messages or warnings to avoid damage to the lift truck and/or injury to yourself or others.
- OHSA requires that the Operator's Manual be permanently attached to your lift truck. Keep this manual on the lift truck as a reference for anyone who may operate or service it. If the lift truck you operate is not equipped with an Operator's Manual, alert your supervisor immediately.
- Your authorized CLARK dealer is ready to help and can provide you with additional information about the unique features, operation, and maintenance of your lift truck.

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Safety Standards

IMPORTANT!

Familiarize yourself with the safety instructions contained in the following publications:

ANSI / ITSDF B56.1 Safety Standard for Low Lift and High Lift Trucks

Available from: Industrial Truck Standards Development Foundation, 1750 K Street NW Suite 460, Washington, DC 20006.

NFPA 505 Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance and Operations

Available from: National Fire Protection Association, Inc., 1 Batterymarch Park, Quincy, MA 02169.

OSHA 1910.178 Powered Industrial Trucks

Available from: Occupational Safety & Health Administration, 200 Constitution Ave NW, Washington, DC 20210.

UL 583 Standard for Electric-Battery-Powered Industrial Trucks

Available from: Underwriters Laboratory Headquarters, 333 Pfingsten Road, Northbrook, IL 60062.

IMPORTANT!

Your CLARK lift truck has been built to meet all applicable mandatory design and construction requirements of the **ANSI / ITSDF B56.1 Safety Standard for Low Lift and High Lift Trucks**. No additions, omissions, or modifications should be made to the lift truck that affect compliance to the above requirements or in any way minimize the effectiveness of it's safety devices.

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Section 1. General Safety Rules

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DON’T mix drugs or alcohol with your job.

DO watch for pedestrians.

DON’T block safety equipment.

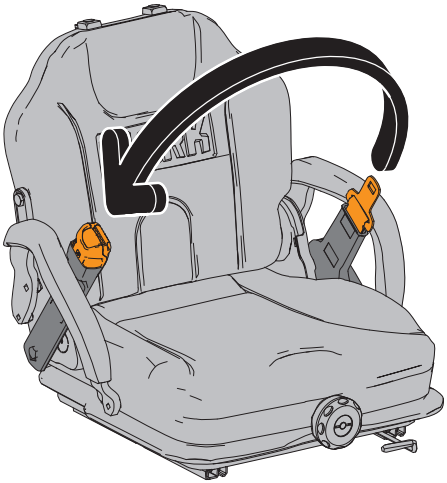
DO wear personal protective equipment.

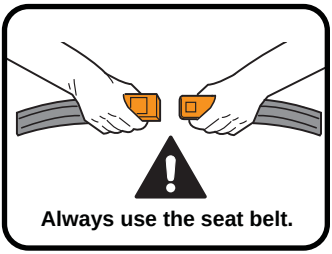
DON’T smoke while operating the lift truck and in NO SMOKING areas.

DON’T operate the lift truck outdoors during poor weather conditions such as rain, snow, or ice.

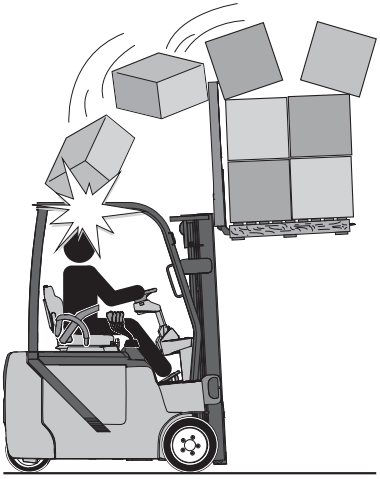
Operator Protection

Seat Belt





Overhead Guard



WARNING

- Stay under the overhead guard when operating the lift truck.
- Keep arms and legs inside the operator's compartment.
- Be careful when traveling in reverse and in tight areas.

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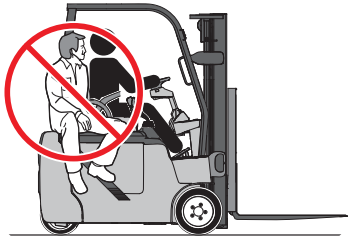
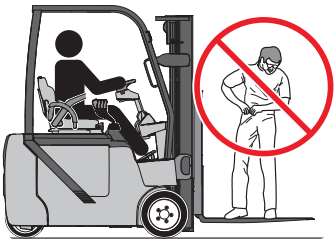
Pedestrians

No Riders

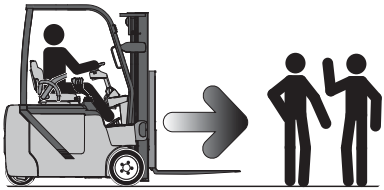


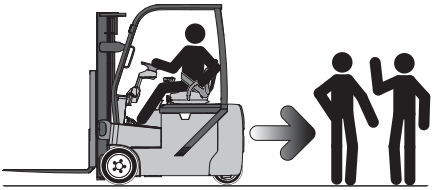
WARNING
The operator is the only person allowed on the lift truck.

WARNING
Do not transport personnel with the lift truck.



Nearby Personnel



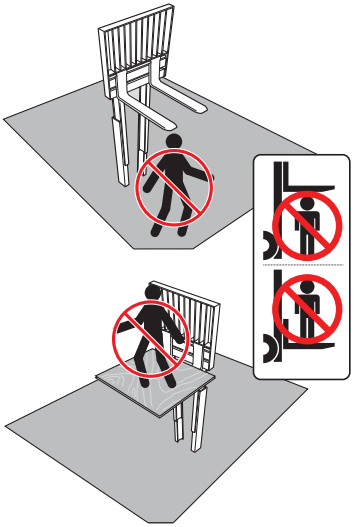


WARNING

- Look in the direction of travel.
- Slow down and operate the horn at every intersection or location with limited visibility.
- Alert personnel to stand back when operating or when parked.
- Be aware of all personnel in your work area.

Upright

Forks and Upright

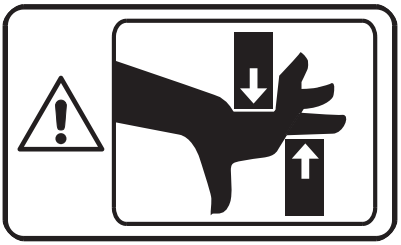


WARNING
Do not walk or stand under raised forks.

WARNING
Do not raise personnel with the lift truck.

WARNING
Do not use the upright as a ladder.

Pinch Points



WARNING
Keep hands, feet, and legs out of the upright.

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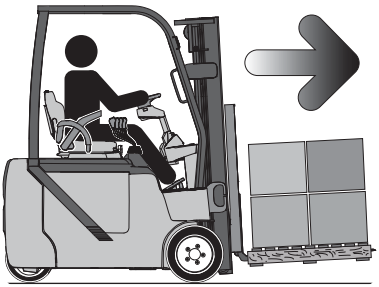
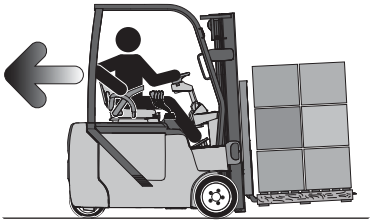
Forward Travel

- Lower the forks to a safe height and tilt the upright back when traveling with a load.
- Do not lift or lower a load while the lift truck is traveling.



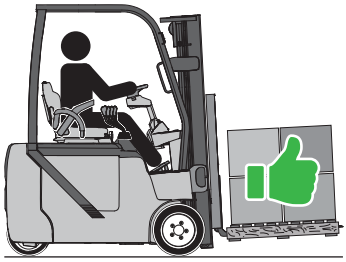
Reverse Travel

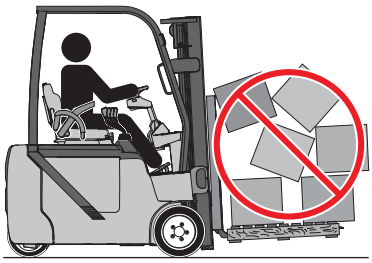
- Travel in reverse when handling loads that restrict your view.
- Rotate in your seat and look in the direction of travel when traveling in reverse.



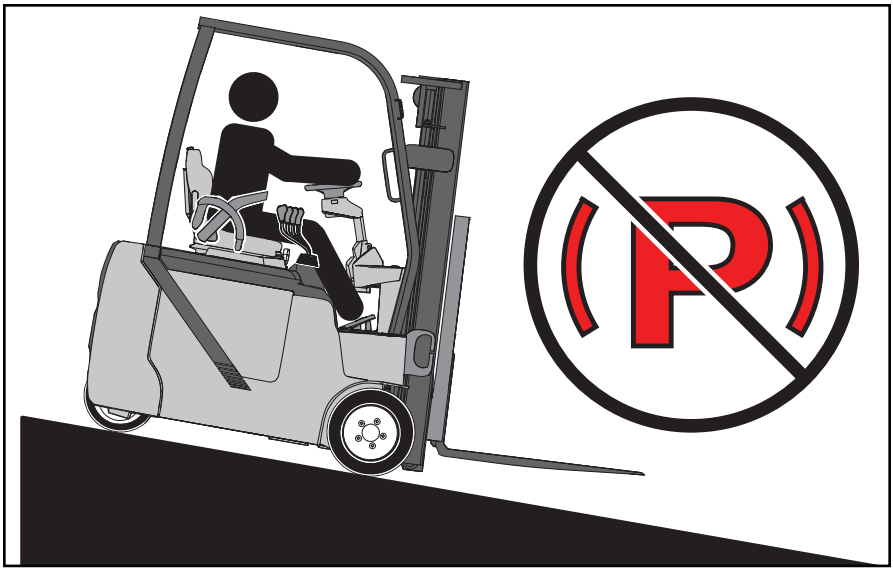
Loaded Travel

- Unstable loads are a hazard to you and other nearby personnel.
- Make sure all loads are stacked correctly and equally positioned across the forks.
- Position the heaviest part of the load closest to the front wheels of the lift truck.
- Do not attempt to lift a load using one fork.





Parking



Parking Rules

- Do not park the lift truck on a ramp or grade.
- Do not leave the lift truck before coming to a complete stop.
- Park the lift truck in authorized areas only.
- Do not block traffic.
- Put the directional control in the neutral position.
- Fully lower the upright and/or attachments to the ground.
- Remove the key when leaving the lift truck for an extended period.

NOTE

The lift truck is equipped with a **self-activating parking brake (SAPB)**. An icon appears on the dash display when engaged.

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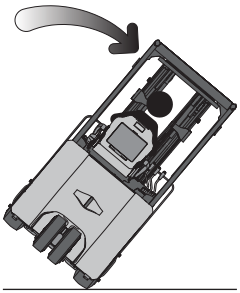
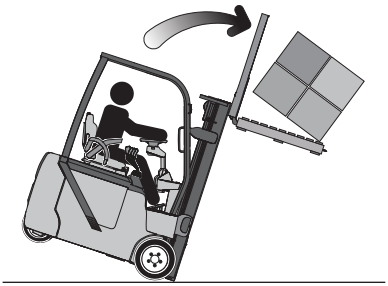
Tipover

Side Tipover



- Tipover can occur when a certain combination of travel speed and turn sharpness **exceeds** the stability of the lift truck. This is most likely to occur with an unloaded lift truck.
- Tipover can occur while turning with the upright raised or braking in reverse with the upright raised or accelerating during a turn.
- Side tipover can occur when attempting to turn on a ramp or grade.

Forward Tipover



- Tipover can occur when a certain combination of overloading and load elevation **exceeds** the stability of the truck. This is most likely to occur because of excessive forward tilt, braking when traveling forward, or accelerating in reverse.
- Tipover can occur when traveling with the forks pointed down grade with a load.

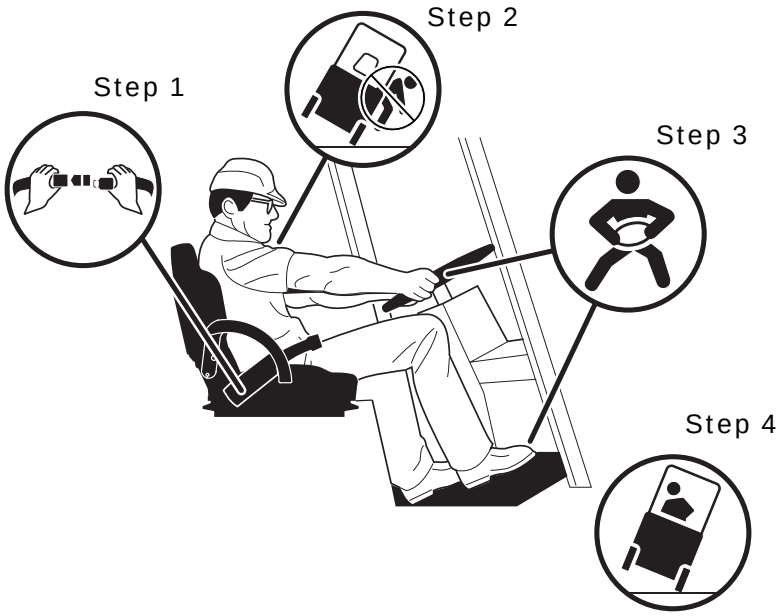
WARNING

To avoid a tipover, do not operate your lift truck: over foreign objects, on rough surfaces, near drop offs, or off-center with a capacity load.

What To Do in Case of a Tipover

WARNING
DO NOT JUMP! During a tipover, your best chance of survival is to **stay in the seat**.

BRACE YOURSELF AS ILLUSTRATED BELOW!



1. **Always use your seat belt.**
2. **Stay in your seat.**
3. **Hold the steering wheel tightly and brace your feet.**
4. **Lean away from the impact.**

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Section 2. Operating Hazards

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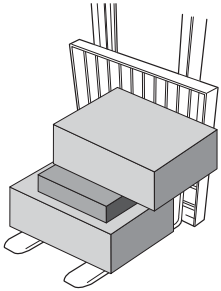
Load Handling

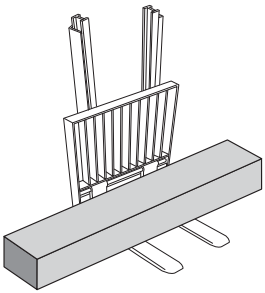
Unbalanced Loads

Do not handle uneven loads.



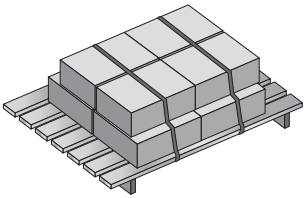
Wide Loads

Center wide loads on the forks.



Loose Material

Stack and band loose material.

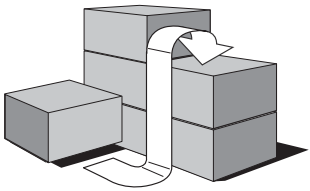


WARNING

- Always secure loose loads before handling.
- Long loads decrease the capacity of your lift truck. Know and understand your lift truck's specific load rating.
- Be careful when traveling with an elevated load and know about load end swing.
- Only travel with a raised load when picking or dropping off a load to a rack or shelf.

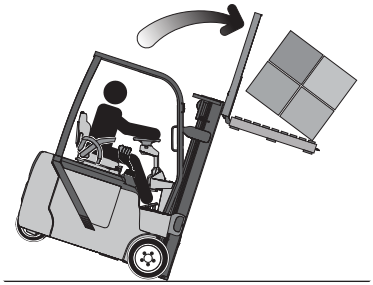
Right-Angle Stacking

Avoid sharp turns and operate slowly.



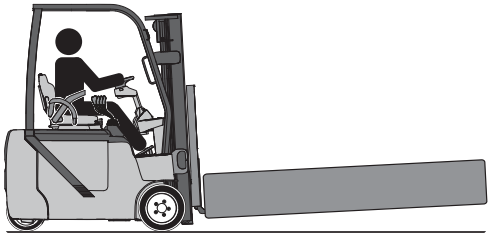
High Loads

Do not turn sharply with a raised load.



Long or Wide Loads

Long or wide loads require more clearance.



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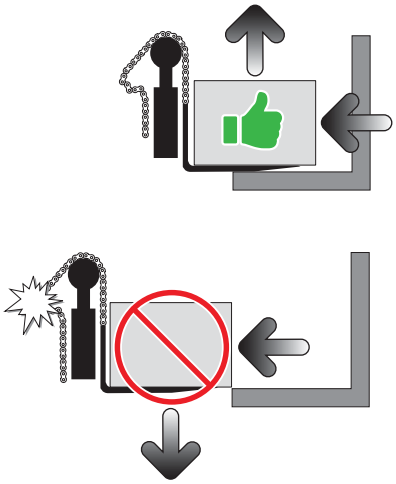
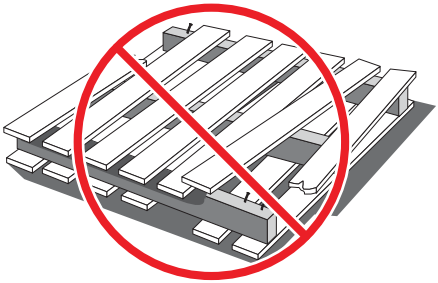
Chain Slack



WARNING

Check for chain slack before attempting to lower a load or when withdrawing the forks after placing a load. Chain slack is caused by the upright rails, carriage, or forks hanging up. Raise the forks before moving, or damage to the chains may occur.

Pallets and Skids



WARNING

Possibility of crushing injury or death. Do not move or store material on damaged pallets or skids. Damaged skids and pallets can cause material to fall unexpectedly.

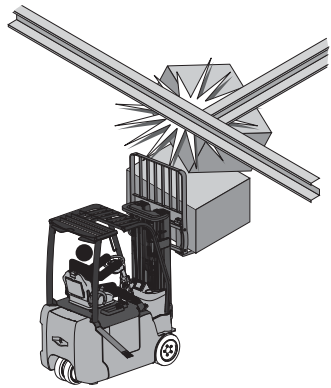
Always use pallets or skids that are in good condition.

Collisions

Overhead Clearance

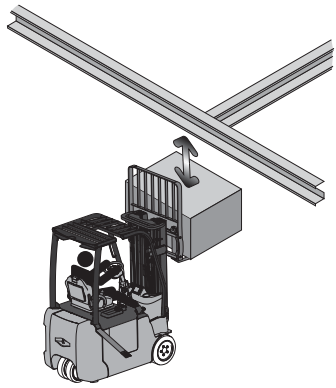
WARNING

- Know your overhead clearance and look for obstacles.
- Colliding with an overhead structure can cause the lift truck to tipover or drop its load.
- Keep the load low and tilted back.

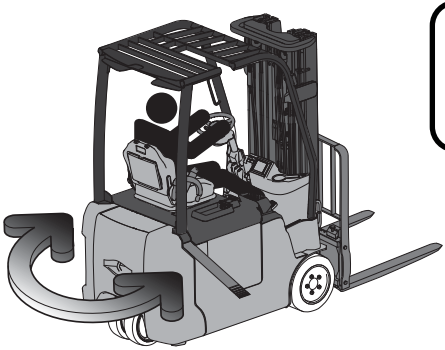


WARNING

- Know the total height of your lift truck, with and without a load.
- Check your surroundings and ceiling height.
- Keep the load low and tilted back when traveling.



Rear End Swing



WARNING

Slow down and look for obstacles and other personnel before turning. Always know where the rear of the lift truck is positioned.

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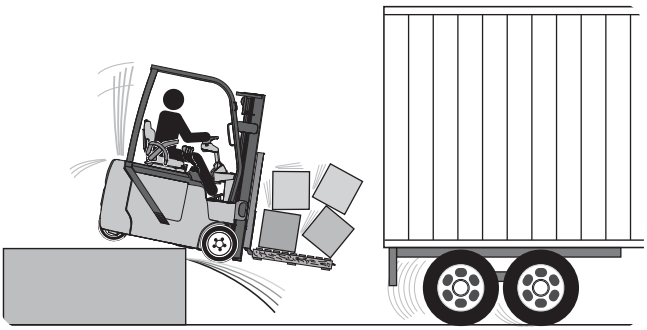
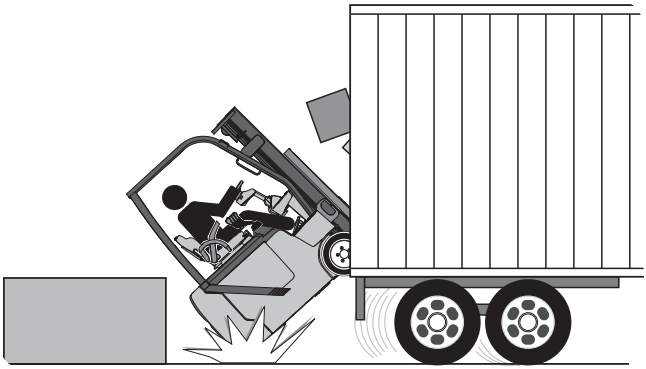
Drop-Offs





WARNING

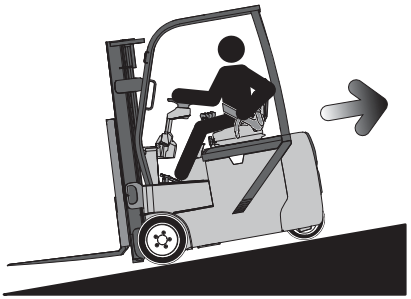
When operating on a dock or drop-off, do the following:

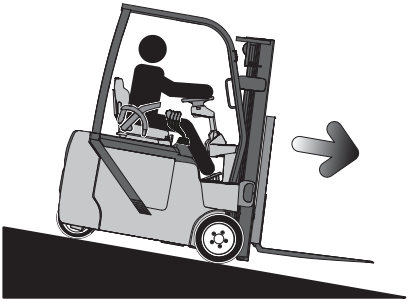
- Tell the driver not to move the trailer and use the trailer brakes.
- Install wheel chocks.
- Use a trailer-to-dock system if available.

The trailer may move unexpectedly while loading or unloading.

Ramps and Grades

Unloaded Travel



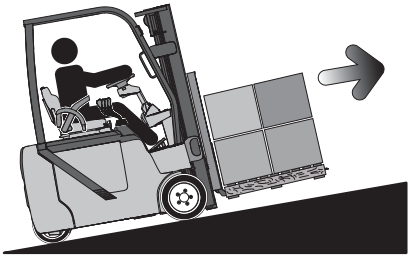


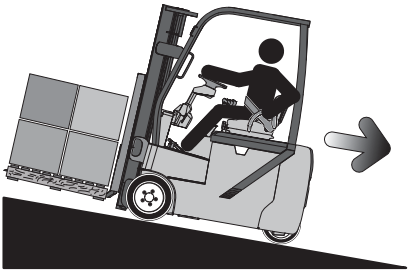
When Traveling Unloaded...
Keep Forks Pointed Down Grade

WARNING
Always look in the direction of travel.

WARNING
Do not turn on a grade.

Loaded Travel





When Traveling Loaded...
Keep Forks Pointed Up Grade

WARNING

- When operating the lift truck, ascend or descend grades slowly, and with caution.
- On grades 10% or greater, always limit travel speed to 4.8 km/h (3.0 mph) or less.
- Do not exceed the maximum operating grade for your specific lift truck model, as defined in this Operator's Manual.
- Do not park on a ramp or grade.

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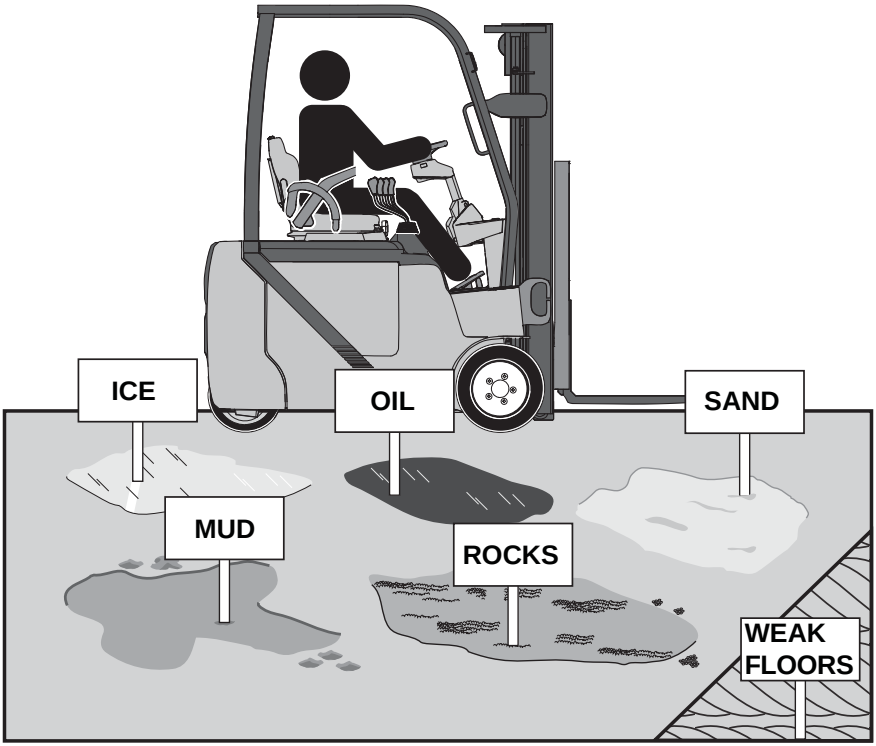
Surface and Capacity



WARNING
Poor conditions can cause the lift truck to lose traction when braking or traveling.

WARNING
Do not travel over a surface that cannot support the weight of a loaded lift truck. Know the combined (gross) weight of the lift truck and the load.

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Section 3. Know Your Lift Truck

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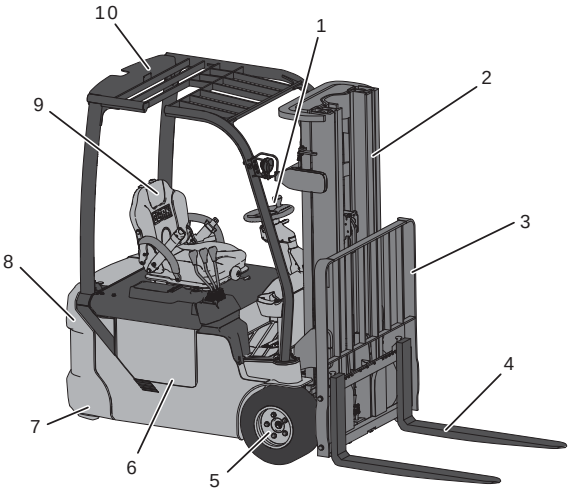
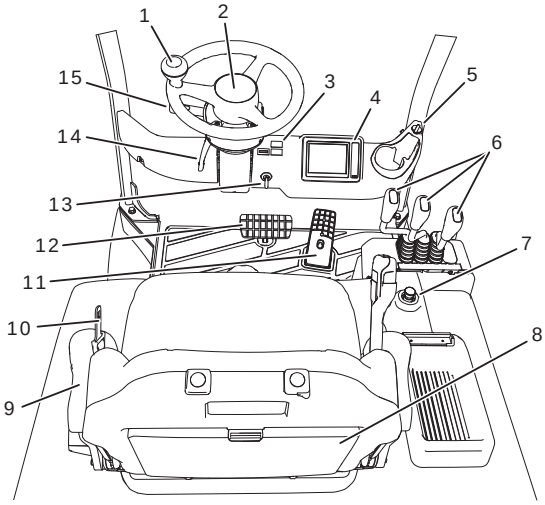
Overview

Lift Truck Components



1. Steering Wheel
2. Upright
3. Load Backrest
4. Forks
5. Drive Wheels
6. Battery Compartment
7. Steer Tires
8. Counterweight
9. Seat
10. Overhead Guard

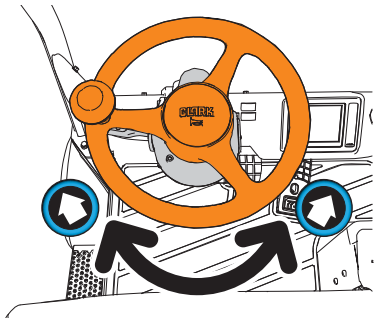
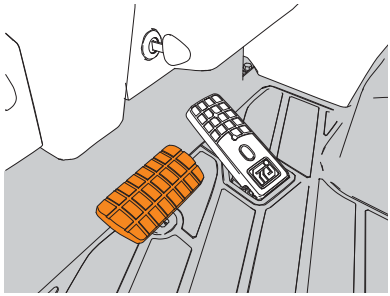
Operator Compartment



1. Steering Knob
2. Horn
3. Accessory Switches
4. Dash Display
5. Accessory Port
6. Control Levers
7. Emergency Disconnect
8. Operator's Manual
9. Hip Restraints
10. Seat Belt
11. Accelerator
12. Brake Pedal
13. Keyswitch
14. Locking Lever
15. Directional Control

NOTE
Your lift truck may vary in appearance depending on the model and optional equipment.

Operator Controls

Driving Controls		
Name	**Description**	**View**
Steering Wheel	The steering wheel controls the position of the rear steer tires. The position of the steer tires is shown on the dash display.	
Brake Pedal	The brake pedal controls the braking of the lift truck. Press down on the brake pedal to slow or stop the lift truck.	
Accelerator Pedal	The accelerator pedal controls the speed of the lift truck. Press down on the accelerator pedal to increase the speed. Release the accelerator to allow the lift truck to coast.	

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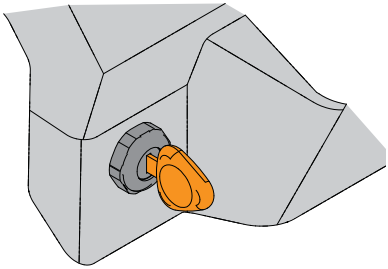
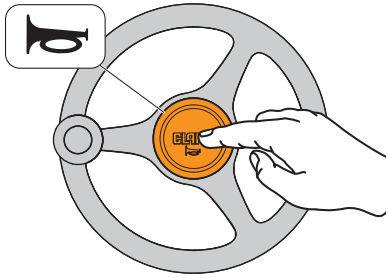
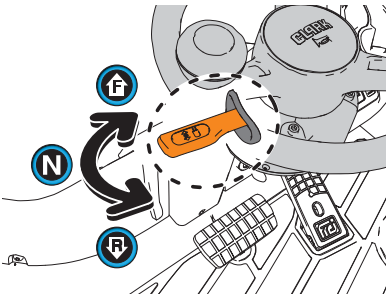
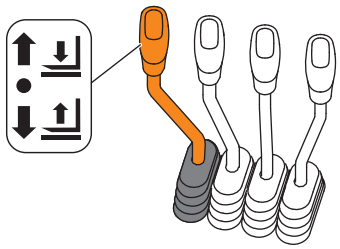
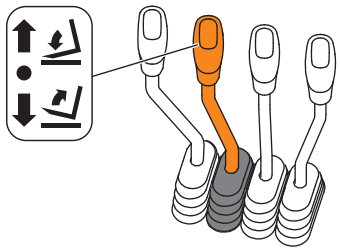
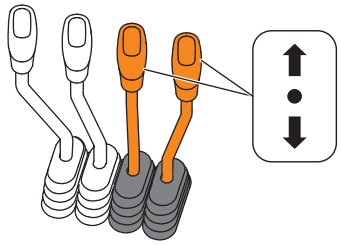
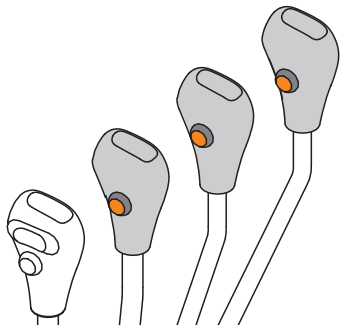
Driving Controls		
Name	**Description**	**View**
Key Switch	The key switch turns the lift truck on or off. When the lift truck is off, all lift truck functions are disabled, including travel, hydraulics, and steering.	
Horn	The horn to used to alert nearby personnel while operating the lift truck.	
Directional Control	The directional switch is used to change the driving direction of the lift truck. There are three positions: forward, neutral, and reverse.	

Hydraulic Controls		
Name	**Description**	**View**
Lift Control Lever	The lift control lever controls the raising and lowering of the upright. Pull the lever back to lift the upright. Push the lever forward to lower the upright.	
Tilt Control Lever	The tilt control lever controls the vertical position of the upright. Pull the lever back to tilt the upright backward. Push the lever forward to tilt the upright forward.	
Auxiliary Control Levers	The auxiliary control lever(s) control optional functions such as a sideshifting, fork positioning, third hydraulic function, and fourth hydraulic function (if equipped).	
Auxiliary Buttons (If equipped)	The auxiliary button(s) control optional functions such as clamping, rotating, fork leveling, or actuating the fifth and sixth hydraulic functions.	

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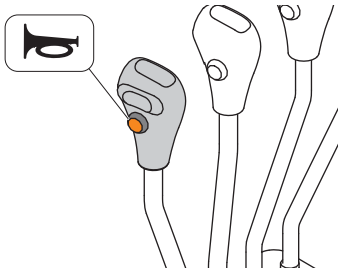
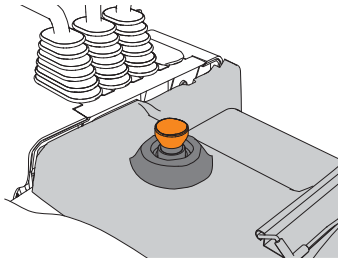
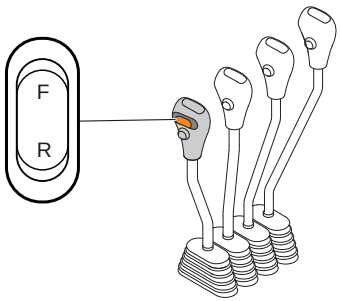
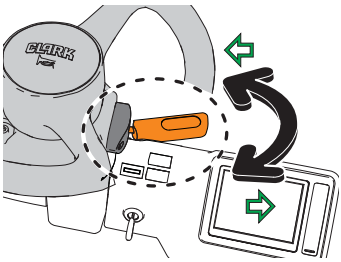
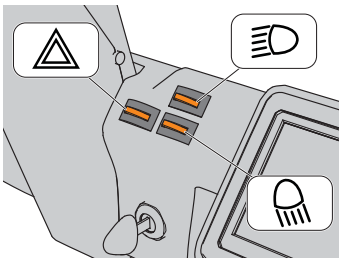
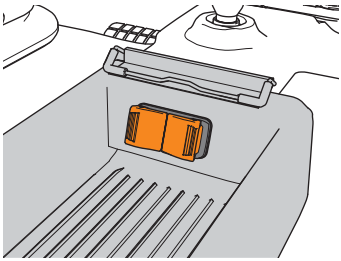
Hydraulic Controls		
Name	**Description**	**View**
Horn Button	The horn button is used to alert nearby personnel when operating the lift truck.	
Emergency Disconnect	The emergency disconnect switch enables the operator to immediately turn lift truck power off. Only use this in an emergency situation.	
Directional Control (If equipped)	The directional control switch is used to change the driving direction of the lift truck.	

Optional Controls		
Name	**Description**	**View**
Turn Signal Switch (If equipped)	The turn signal switch is used to activate the left and right turn indicator lights.	
Accessory Switches (If equipped)	The accessory switches control electrical options such as headlights, work lights, and hazard lights.	
Rear Horn Button (If equipped)	The rear horn button enables the operator to operate the horn when traveling in reverse.	
Accessory Charge Ports (If equipped)	Two USB 2.0 charge ports allow the operator to charge or power a variety of electronic devices.	

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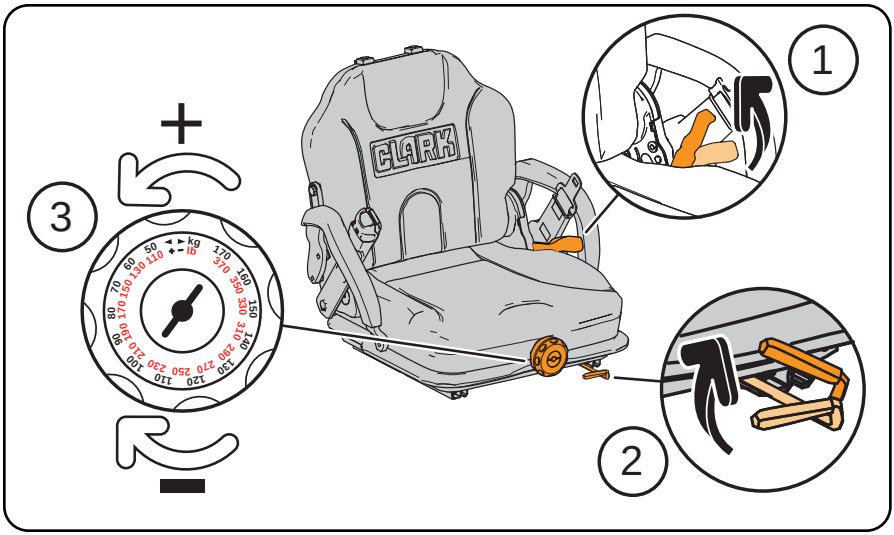
Seat



The standard operator's seat offers three types of adjustment for optimal operator comfort. The seat can be adjusted for: recline angle, front-to-rear position, and suspension firmness.

Adjusting the Seat Recline:

- Pull back on the side lever (**1**) and lean backward or forward to position the seat back cushion. Release the lever to lock into place.

Adjusting the Seat Position:

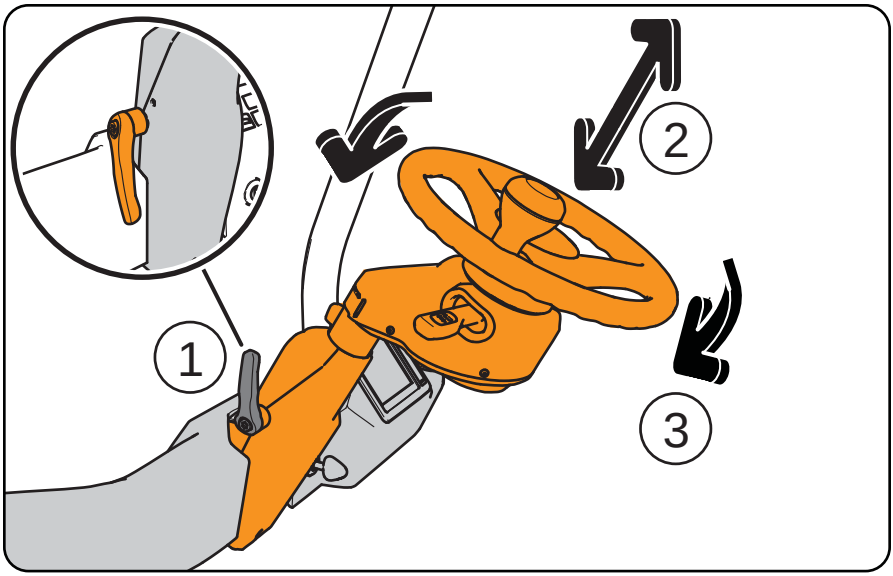
- Pull up on the front lever (**2**) and slide the seat forward or backward. The seat should be positioned so that the steering wheel, hydraulic controls, and pedals are easy to reach and comfortable to operate. Release the lever to lock into place.

Adjusting the Seat Firmness:

- Turn the adjustment knob (**3**) until the weight of the operator is shown. The seat can be adjusted from 70–170 kg (155–374 lb).

WARNING
Do not attempt to adjust the seat while operating the lift truck.

Steering Column



The telescoping steering column offers two-way adjustment for optimal operator comfort. When adjusting the steering column, both the tilt angle and column length adjustments are performed at the same time.

Adjusting the Steering Column:

- Loosen the locking lever (**1**) to release the steering column.
- Pull the steering wheel (**2**) out to lengthen or push in to shorten.
- Rotate the steering column (**3**) up or down to adjust the tilt angle.
- Tighten the locking lever (**1**) to secure the steering column position. If needed, pull the locking lever out to adjust it's position.

WARNING
Do not attempt to adjust the steering column while operating the lift truck.

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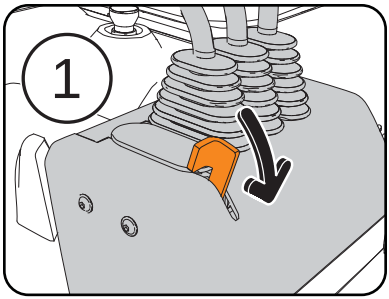
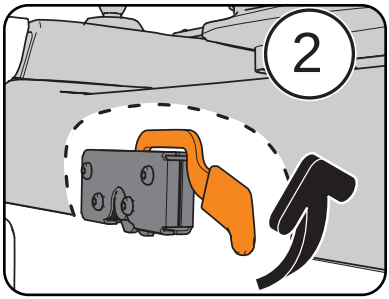
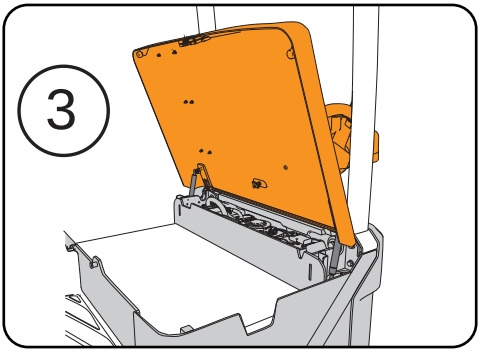
Hood







The hood must be raised to allow access to the battery charge receptacle, remove or install the battery, or to perform various planned maintenance tasks.

Raising the Hood:

- Rotate the steering column fully forward.
- Push the latch (**1**) forward to release the hydraulic controls and then rotate the lever assembly fully forward.
- Push the release lever (**2**) up to release the hood.
- Lift the hood (**3**) until it is fully supported by the struts.

Lowering the Hood:

- Make sure that the hydraulic control assembly is rotated fully forward.
- Push the hood down until the latch positively engages the striker.
- Rotate the hydraulic control assembly back to the locked position.
- Check that the hood is secured before resuming operation.

WARNING

Do not attempt to operate the lift truck if the hood is not properly latched. Always use care when raising and lowering the hood to prevent possible injury.

Parking Brake

The lift truck is equipped with a self-activating parking brake (SAPB) system which consists of an electromagnetic (EM) brake that is connected to each drive motor. During normal operation, the EM brakes are disengaged to allow the drive motors to turn freely. When the truck is stopped, the EM brakes automatically engage and prevent the drive motors from turning. The parking brake icon will appear on the display when the EM brakes are applied.

If battery power is interrupted while traveling, such as when the emergency disconnect is depressed, the EM parking brakes are immediately applied and the lift truck will come to a stop. The repeated use of the parking brake in this way is considered operator abuse and will damage the self-activating parking brake system.

The Self-Activating Parking Brake Applies When...

- The lift truck is stopped.
- The operator attempts to leave the seat.
- The emergency disconnect switch is pressed.
- The key switch is turned off.
- The battery cable is disconnected from the battery.

CAUTION

Damage to the EM parking brakes will occur if used repeatedly to stop.

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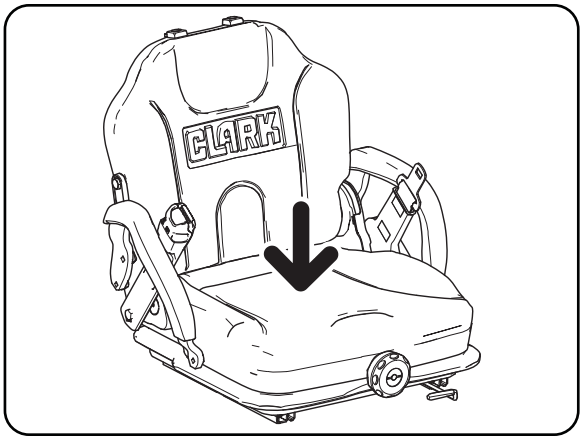
Operator Presence System



The operator presence system (OPS) consists of a safety switch located in the bottom of the operator's seat. It determines if the operator is seated correctly while operating the lift truck. The operator must sit in the seat to travel or use the hydraulic controls.

If the operator is not in a correct seating position, both travel and hydraulic operations are interrupted. An alarm will appear on the dash display if travel or hydraulic operation is attempted without sitting in the seat.

If the lift truck is traveling and the OPS switch is disengaged, the lift truck will come to a controlled stop and the parking brake will apply. The OPS switch must be depressed to resume operation. If this occurs, an icon and alarm message will appear on the dash display to inform the operator.

If the lift truck is stopped with the keyswitch in the ON position, and the operator leaves the seat, an alarm will sound after approximately 20 seconds. An alarm message will also appear on the display. If this occurs, resume operation of the lift truck or turn the lift truck off.

WARNING

Do not attempt to leave the operator's seat while the lift truck is moving. Remain seated, with the seat belt securely fastened, until the lift truck is fully stopped and the parking brake icon appears on the display.

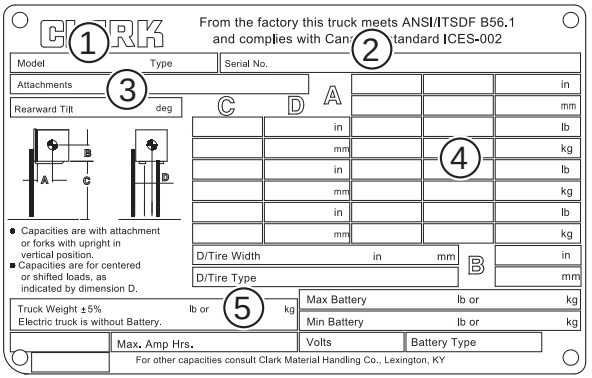
NOTE

The seat suspension firmness must be properly adjusted for the operator's weight to ensure proper operation of the OPS.

Data Plate

Data Plate

The data plate contains important information about the specifications, weight, and lifting capacity of your specific lift truck. If it is missing or damaged, remove the lift truck from service and contact your authorized CLARK dealer for a replacement.



(1) Model and Type: Identifies the model and type of lift truck. Certain types of lift trucks are not permitted in areas that contain fire hazards - watch for marked areas.

(2) Serial Number: A unique identification number assigned to your lift truck. It is also stamped on the frame of your lift truck. Use this number when requesting service information or ordering replacement parts to ensure accuracy.

(3) Attachments: Lists the current attachment(s) installed on the lift truck. The operator must make sure this matches with what is actually installed on the lift truck.

(4) Capacity: Shows the maximum lifting capacity of the lift truck with respect to the load center and the fork height.

(5) Weight: The unloaded weight of the lift truck. It does not include the weight of the battery. Always use the total (loaded) weight of the lift truck when operating on elevators, dock boards, or floors with a limited capacity.

WARNING

By law, all modifications affecting capacity or safety must be approved by the manufacturer before changes to the lift truck can be made.

A new data plate is required whenever modifications are made to the lift truck that may affect capacity, such as adding an attachment. Contact your authorized CLARK dealer for an updated data plate showing the correct capacity.

WARNING

The maximum load capacity of the lift truck DOES NOT increase if the load center is less than what is shown on your data plate. DO NOT exceed the maximum load capacity!

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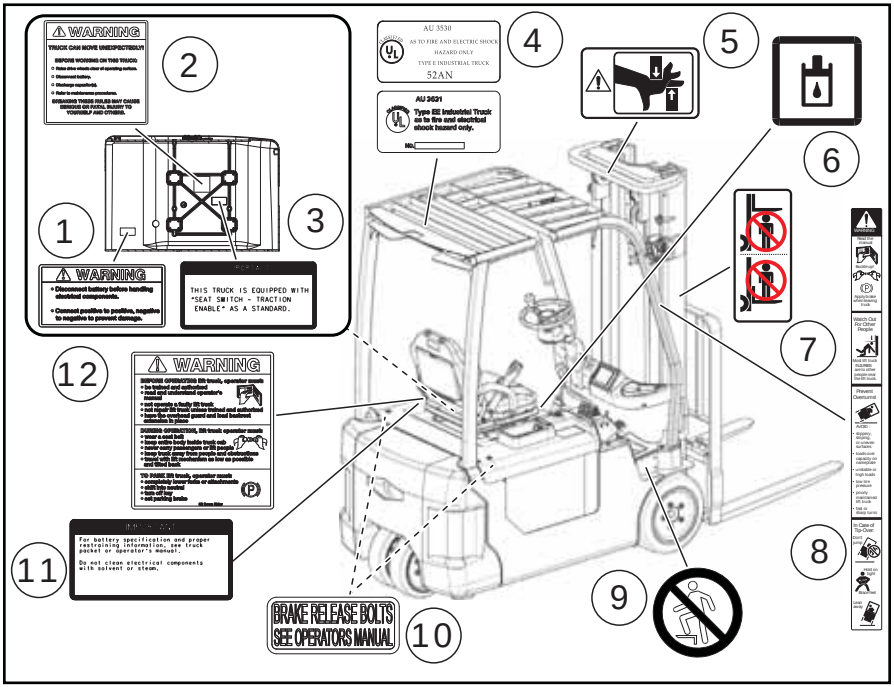
Decals

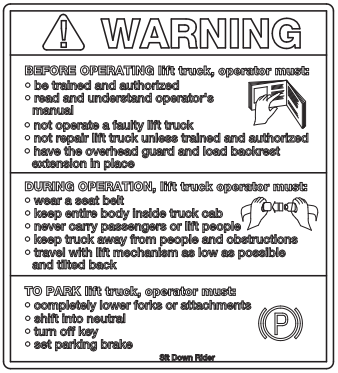
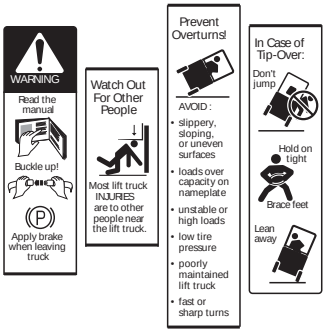
Decals



1.	Battery Polarity	**7.**	Fork Safety
2.	Service Warning	**8.**	Tipover Safety
3.	Seat Switch	**9.**	No Step
4.	UL® Classification	**10.**	Brake Release Bolts
5.	Upright Safety	**11.**	Battery Specification
6.	Hydraulic Fluid	**12.**	Operator Warning

WARNING

Safety or warning decals that are unreadable or missing should be replaced immediately.

Safety Decals		
Name	**Description**	**View**
Operator Warning	The operator warning decal describes how to safely operate and park the lift truck.	
Tipover Safety	The tipover safety decal shows how to reduce the chance of injury during a tipover and how to avoid tipovers.	
Service Warning	The service warning decal describes how to safely prepare the lift truck for service or maintenance.	

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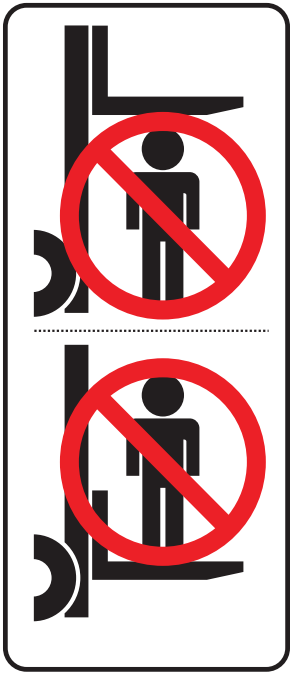
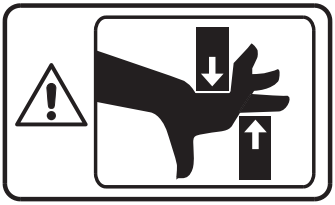
Safety Decals		
Name	**Description**	**View**
Fork Safety	The fork safety decals show the risk of serious injury or death when the forks are in a raised position.	
Upright Safety	The upright safety decal warns of the risk of serious injury when placing body parts between the moving components of the upright.	

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Section 4. Operating the Display

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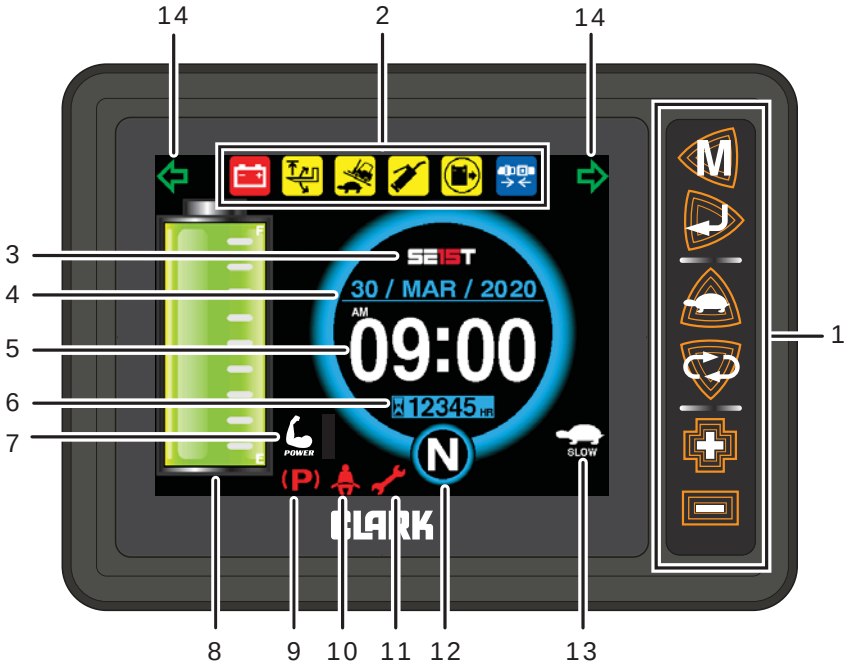
Display Overview

Dash Display



1. Menu Buttons
2. Warning Icons
3. Model
4. Date
5. Time
6. Hour Meter / Odometer
7. Performance Mode
8. Battery Level
9. Parking Brake
10. Seat Icon
11. Fault Icon
12. Direction / Steer Position
13. Low Speed Mode
14. Turn Signal / Hazard

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Menu Buttons		
Name	**Button**	**Description**
Menu OR Back Button		Press the MENU button to enter the operator menu. When in a menu, press the BACK button to return to the previous screen.
Enter OR Next Button		Press the ENTER button to enter the service menu. A password is required. When in a menu, press the NEXT button to enter a menu or save a selected value.
Low Speed OR Up Button		Press the LOW SPEED button to enable or disable low speed mode. When in a menu, press the UP button to move to a higher menu level.
Mode OR Down Button		Press the MODE button to change the performance mode (if enabled). When in a menu, press the DOWN button to move to a lower menu level.
Plus Button		When in a menu, press the PLUS button to increase a value.
Minus Button		When in a menu, press the MINUS button to decrease a value. Press the MINUS button to hide or show an existing controller alarm message. To enter the sales menu, press and hold the MINUS button when in the home screen. A password is required.

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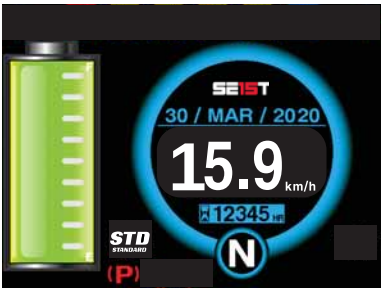
Main Screen - Functions and Alarms		
Operation	**Function or Alarm**	**Description**
Stopped		When travel speed is less than 0.5 km/h (0.3 mph), the time is shown.
Stopped (Load Weight)		When stopped, or when not operating a hydraulic function, the load weight is shown.
Traveling		When travel speed is greater than 0.5 km/h (0.3 mph), the speed is shown.
Traveling (Load Weight)		When travel speed is greater than 0.5 km/h (0.3 mph), or when operating the hydraulics, the speed is shown.

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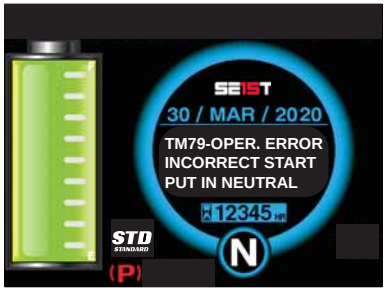
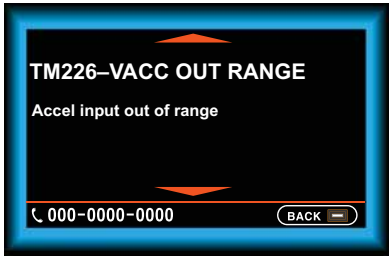
Main Screen - Functions and Alarms		
Operation	**Function or Alarm**	**Description**
Stopped OR Traveling		When an operator alarm occurs, the alarm code and description are shown on the screen.
Stopped OR Traveling (Load Weight)		
Controller Alarm		When a service alarm occurs, the alarm code and description are shown in a new window. Press the MINUS button to hide the alarm message.

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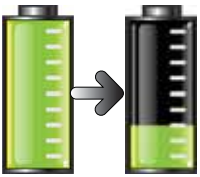
Main Screen - Indicators		
Name	**Indicator**	**Description**
Date and Time	30 / MAR / 2020 AM 09:00	The time and date icon shows the current time and date.
Speedometer OR Load Weight (If Equipped)	15.9 km/h	The speedometer icon shows the lift truck's travel speed.
	kg 2345 kg	The load weight icon displays the weight of the current load.
Hour Meter OR Odometer	12345 HR	The hour meter icon shows the total operating hours of the lift truck.
	12345 km	The odometer icon shows the total distance the lift truck has traveled.
Direction AND Steer Position		The direction icon shows the current direction of travel. The three directions of travel are forward, reverse, and neutral. The steer icon (white arrow) corresponds with the current position of the rear steer tires.

Icons		
Name	**Icon**	**Description**
Normal Battery		The battery indicator shows the remaining battery charge level. Each increment on the icon is equal to approximately 10% of total battery charge. The icon will be green, indicating adequate battery charge, when the battery charge level is greater than 20%.
Low Battery		The icon will change to yellow and a warning message will appear on the display when the battery charge level reaches 20% or less.
Charge Soon		The icon will change to red and a warning message will appear on the display when the battery charge level reaches 15% or less.
Charge Now		The icon will flash, an alarm will sound, and a warning message and battery icon will appear on the display when the battery charge level reaches 10% or less. When the battery charge level reaches 10% or less, the lift interrupt feature will automatically reduce the maximum travel speed and disable hydraulic lift function.
Parking Brake		The parking brake icon is displayed when the self-activating parking brake system is active.
Fault		The fault icon is displayed when an alarm (error) has occurred.
Low Speed Mode		The speed mode icon is displayed when the lift truck is in low speed (turtle) mode and operating at a reduced travel speed. Press the LOW SPEED button to turn this feature on or off.

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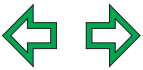
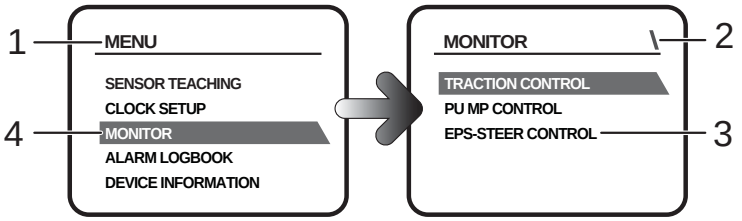
Icons		
Name	**Icon**	**Description**
Seat Switch		The seat switch icon is displayed when the lift truck is turned on and the operator is not sitting in the seat correctly.
Performance Mode (If Enabled)		The performance mode icon shows the lift truck's current operating mode. The three levels of performance are economy, standard, and power. Press the MODE button to change the current performance mode.
Turn Signal (If Equipped)		The turn signal indicators are displayed when using the turn signal or hazard light switches.
Battery Warning		The battery warning icon is displayed when the battery charge level reaches 10% or less. A message will also display indicating that the battery should be charged immediately.
Maintenance Warning		The maintenance warning icon is displayed when the preset service interval has been reached.
Fork Leveling Warning (If Equipped)		The fork leveling warning indicator changes color when the following occurs: White: the forks are tilted backward. Green: the forks are level. Yellow: the forks are tilted forward.
Seat Belt Warning (If Equipped)		The seat belt warning icon is displayed if the seat belt is not properly latched or if the Smart Interlock sequence of operation is not performed correctly.

Menus

Menu Description



1. Main Menu
2. Menu Level
3. Submenu
4. Current Selection

Operator Menu

The operator menu is intended for use by the lift truck operator. It allows the operator to adjust and view features intended to assist the operator with effectively operating the lift truck. A password is **not required** to enter this menu.

Enter the Operator Menu

- Press the MENU button.

Operator Menu			
Name	**View**	**Description**	**Operation**
Menu	MENU SENSOR TEACHING CLOCK SETUP MONITOR ALARM LOGBOOK DEVICE INFORMATION	The operator menu has five submenus.	► Use the UP and DOWN buttons to select a submenu. ► Press the ENTER button to enter the desired submenu.
Sensor Teaching	SENSOR TEACHING SET STR KNOB HOME WEIGHT SET TO ZERO 0.20 V	The sensor teaching menu allows the operator to set the position of the steering knob and reset the initial load value of the load weight system (if equipped).	► Use the UP and DOWN buttons to select a submenu. ► Press the ENTER button to enter the desired submenu.

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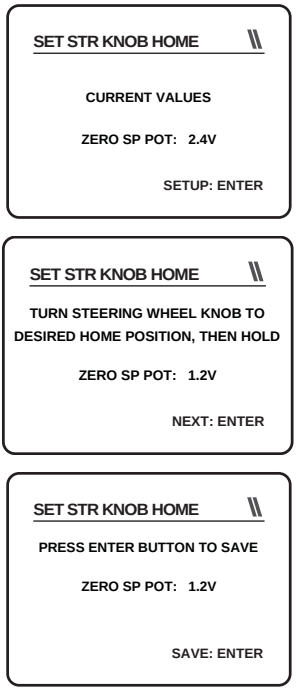
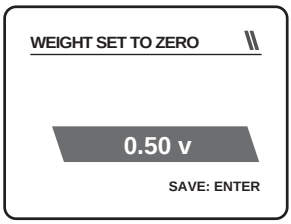
Operator Menu			
Name	**View**	**Description**	**Operation**
Set Steering Knob Home		The set steering knob home menu allows the operator to adjust the home position of the steering wheel knob when the rear steer wheels are in the straight ahead (0°) position.	► Press the ENTER button to begin the adjustment procedure. ► Turn the steering wheel knob to the desired home position and hold. ► Press the ENTER button to continue. ► Press the ENTER button to save the new steering knob home position.
Weight Set to Zero **(If Equipped)**		The weight set to zero menu allows the operator to reset (tare) the initial load value to compensate for any differences in weight when changing forks or attachments. The initial load value is the measured weight when there is no load on the forks.	► Remove the load from the forks. ► Fully lower the forks to the ground and put the upright in the vertical position. ► Raise the forks off the ground, then lower slightly. ► Press the ENTER button to save the new initial load value.

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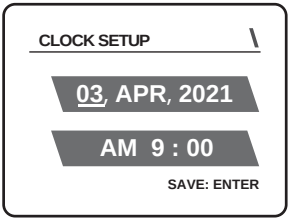
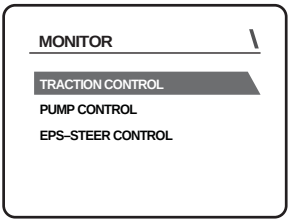
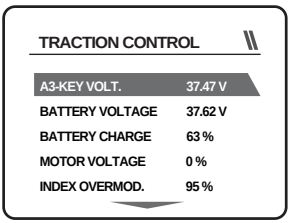
Operator Menu			
Name	**View**	**Description**	**Operation**
Clock Setup		The clock setup menu allows the operator to adjust the date and time.	► Use the UP and DOWN buttons to select a value. ► Use the PLUS and MINUS buttons to adjust the value. ► Press the ENTER button to save.
Monitor		The monitor menu allows the operator to view the lift truck's controller readings in real time.	► Use the UP and DOWN buttons to select a submenu. ► Press the ENTER button to enter the desired submenu.
			► Use the UP and DOWN buttons to view a controller reading.

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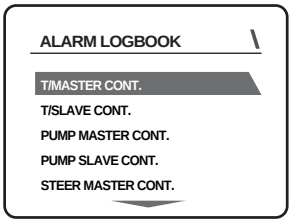
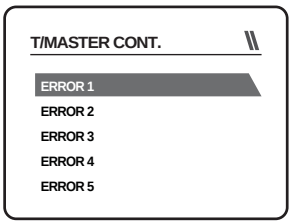
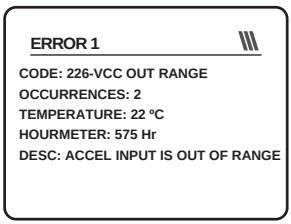
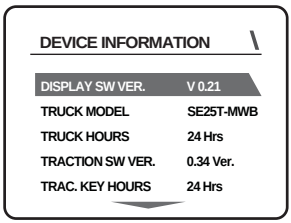
Operator Menu			
Name	**View**	**Description**	**Operation**
Alarm Logbook		The alarm logbook menu allows the operator to view the most recent controller alarms.	► Use the UP and DOWN buttons to select a submenu. ► Press the ENTER button to enter a submenu.
			► Use the UP and DOWN buttons to select an alarm (error). ► Press the ENTER button to view a specific error.
			► The code, occurrences, temperature, hour meter, and description are shown.
Device Information		The device information menu allows the operator to view the lift truck model, software versions, and operating hours.	► Use the UP and DOWN buttons to view the desired lift truck information.

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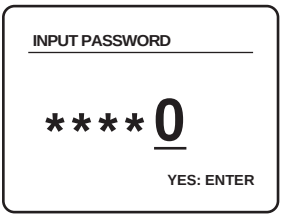
Sales Menu

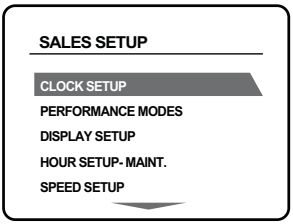
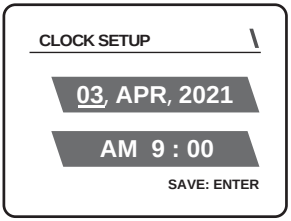
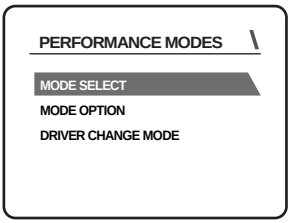
The sales menu is intended for use by the dealer. It allows the dealer to view all current settings and features found in the service menu, but only allows for limited adjustment. In this menu, the performance modes, display setup, and speed setup can be adjusted. A password **is required** to enter this menu.

Entering the Sales Menu

- Press and hold the MINUS button until a screen appears.
- Use the PLUS or MINUS and UP or DOWN buttons to enter the sales password.
- Press the ENTER button.



NOTE
For additional information regarding the specific use and operation of this menu, refer to the Service Manual.

Sales Menu		
Name	**View**	**Description**
Sales Setup		The sales menu has twelve submenus.
Clock Setup		The clock setup menu allows the dealer to adjust the date and time.
Performance Modes		The performance modes menu allows the dealer to adjust, enable, or disable the performance mode feature.

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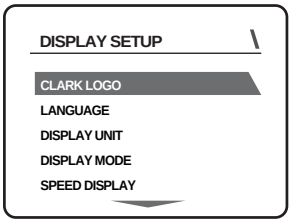
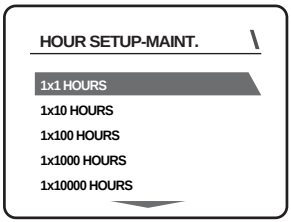
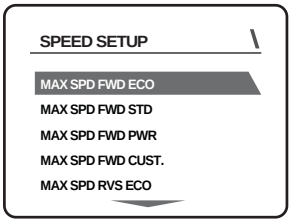
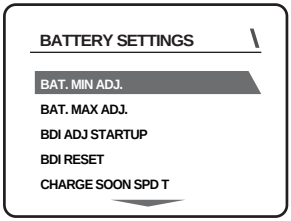
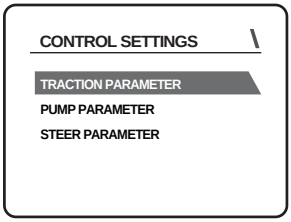
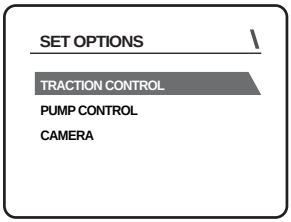
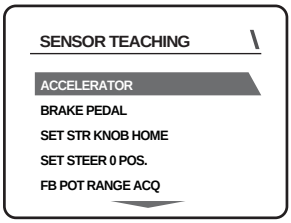
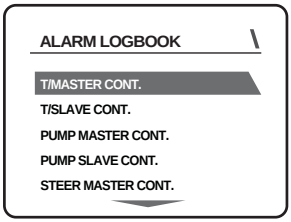
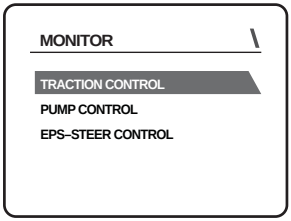
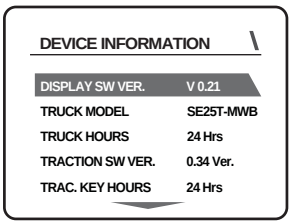
Sales Menu		
Name	**View**	**Description**
Display Setup		The display setup menu allows the dealer to adjust, enable, or disable the lift truck's display features.
Hour Setup-Maint.		The hour setup-maintenance menu allows the dealer to view the lift truck settings related to maintenance.
Speed Setup		The speed setup menu allows the dealer to adjust, enable, or disable the lift truck's maximum speeds.
Battery Settings		The battery settings menu allows the dealer to view the lift truck settings related to the battery.
Control Settings		The control settings menu allows the dealer to view the lift truck settings related to the controllers.

Sales Menu		
Name	**View**	**Description**
Set Options		The set options menu allows the dealer to view the lift trucks currently enabled and disabled options. This menu does allow the dealer to adjust, enable, and disable optional camera(s).
Sensor Teaching		The sensor teaching menu allows the dealer to view the lift truck settings related to sensor calibration.
Alarm Logbook		The alarm logbook menu allows the dealer to view the most recent controller alarms.
Monitor		The monitor menu allows the dealer to view controller readings in real time.
Device Information		The device information menu allows the dealer to view the lift truck model, software versions, and operating hours.

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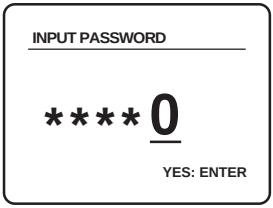
Service Menu

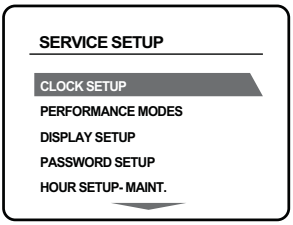
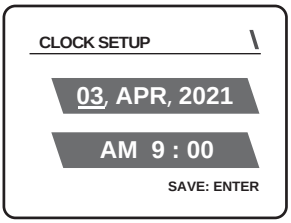
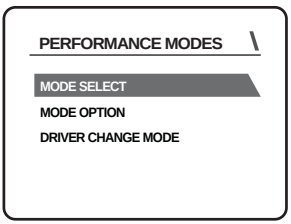
The service menu is intended for use by the technician only. It allows the technician to view and adjust all settings, clear errors, and enable or disable lift truck options. A password **is required** to enter this menu.

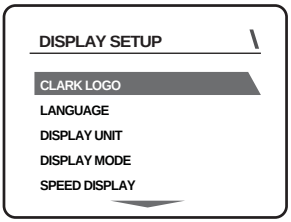
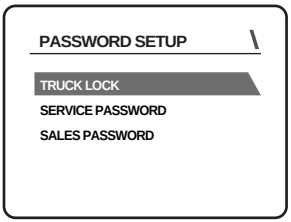
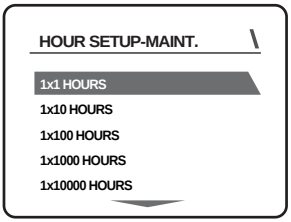
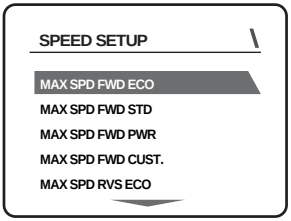
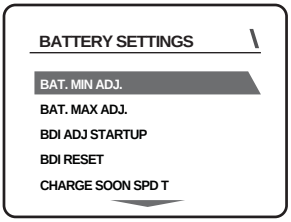
Entering the Service Menu

- Press and hold the MENU button until a screen appears.
- Use the PLUS or MINUS buttons and UP or DOWN buttons to enter the service password.
- Press the ENTER button.



NOTE
For additional information regarding the specific use and operation of this menu, refer to the Service Manual.

Service Menu		
Name	**View**	**Description**
Service Setup		The service menu has thirteen submenus.
Clock Setup		The clock setup menu allows the technician to adjust the date and time.
Performance Modes		The performance modes menu allows the technician to adjust the performance mode features.

Service Menu		
Name	**View**	**Description**
Display Setup		The display setup menu allows the technician to adjust the display features.
Password Setup		The password setup menu allows the technician to adjust the passwords and enable or disable the truck lock feature.
Hour Setup-Maint.		The hour setup-maintenance menu allows the technician to adjust the maintenance feature settings.
Speed Setup		The speed setup menu allows the technician to adjust the maximum travel speeds.
Battery Settings		The battery settings menu allows the technician to adjust the settings related to the battery.

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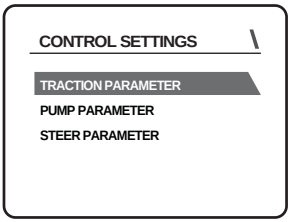
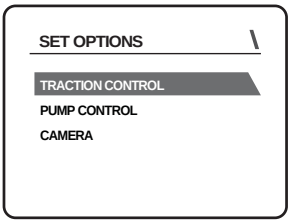
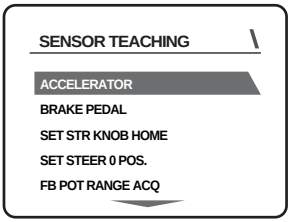
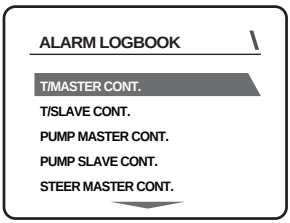
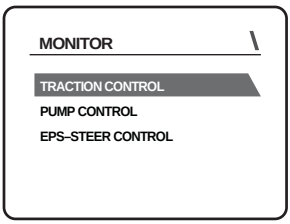
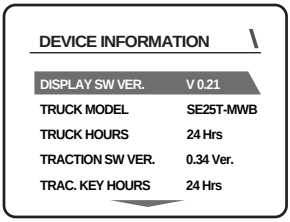
Service Menu		
Name	**View**	**Description**
Control Settings		The control settings menu allows the technician to adjust the lift truck settings related to the controllers.
Set Options		The set options menu allows the technician enable and disable the lift truck's options.
Sensor Teaching		The sensor teaching menu allows the technician to adjust the settings related to sensor calibration.
Alarm Logbook		The alarm logbook menu allows the technician to view and clear the most recent controller alarms.
Monitor		The monitor menu allows the technician to view controller readings in real time.

Standard Features

Service Menu		
Name	**View**	**Description**
Device Information		The device information menu allows the technician to view the lift truck model, software versions, and operating hours.

STANDARD FEATURES		
Name	**Description**	**Operation**
Clock	The date and time is shown on the display when the lift truck is ON and traveling less than 0.5 km/h (0.3 mph) or stopped. The day, month, year, and time can be adjusted using any menu. The clock format can be set to either 12 or 24-hour.	**Adjust Time and Date Settings** SETUP → CLOCK SETUP
Dealer Information	The dealer information function feature enables the dealers contact information to be shown when an alarm occurs.	**Enable / Disable Dealer Information** SETUP → DISPLAY SETUP → DEALER INFO. FUNC.
	The dealer contact feature allows the dealer's phone number to be entered and saved.	**Adjust Dealer Phone Number** SETUP → DISPLAY SETUP → DEALER CONTACT
Display Mode	The display mode allows either the lift truck's total operating hours (hour meter) or mileage to be shown on the display.	**Enable / Disable Hour Meter or Mileage** SETUP → DISPLAY SETUP → DISPLAY MODE
Units	The unit of measurement can be shown in either SI or US customary.	**Adjust Unit of Measurement** SETUP → DISPLAY SETUP → DISPLAY UNIT

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STANDARD FEATURES		
Name	**Description**	**Operation**
Language	The display can be viewed in a variety of different languages.	**Adjust Language** SETUP → DISPLAY SETUP → LANGUAGE
Logo	The CLARK logo, shown on startup, can be disabled or enabled.	**Enable / Disable CLARK Logo** SETUP → DISPLAY SETUP → CLARK LOGO
Operator Menu Visibility	The monitor submenu in the operator menu can be hidden to prevent access by the operator.	**Enable / Disable Monitor Submenu** SETUP → DISPLAY SETUP → DRIVER MONITOR
	The clock setup submenu in the operator menu can be hidden to prevent access by the operator.	**Enable / Disable Clock Setup Submenu** SETUP → DISPLAY SETUP → DRIVER CLOCK SETUP
	The alarm logbook submenu in the operator menu can be hidden to prevent access by the operator.	**Enable / Disable Alarm Logbook Submenu** SETUP → DISPLAY SETUP → DRIVER LOGBOOK
	The device information submenu in the operator menu can be hidden to prevent access by the operator.	**Enable / Disable Device Information Submenu** SETUP → DISPLAY SETUP → DRIVER DEVICE INFO
	The set steering knob home submenu in the operator menu can be hidden to prevent access by the operator.	**Enable / Disable Set Steering Knob Home Submenu** SETUP → DISPLAY SETUP → DRIV. SET STR HOME
	If equipped with the load weight option, the weight set to zero submenu in the operator menu can be hidden to prevent access by the operator.	**Enable / Disable Weight Set to Zero Submenu** SETUP → DISPLAY SETUP → DRIVER WEIGHT

STANDARD FEATURES		
Name	**Description**	**Operation**
Performance Modes	The lift truck has three performance operating modes. The performance mode is saved when the lift truck is turned off and resumes when the lift truck is turned on.	**Adjust Performance Mode** SETUP → PERFORMANCE MODES → MODE SELECT
	If the performance mode feature is enabled, the performance mode will operate normally. If disabled, the icon will be hidden, the mode change button will be disabled, and the lift truck will be locked into custom mode.	**Enable / Disable Custom Mode** SETUP → PERFORMANCE MODES → MODE OPTION
	The performance mode can be locked to prevent the operator from changing the performance mode.	**Enable / Disable Driver Change Mode** SETUP → PERFORMANCE MODES → DRIVER CHANGE MODE
Speed Display	The travel speed shown on the display can be enabled or disabled.	**Enable / Disable Speed Display** SETUP → DISPLAY SETUP → SPEED DISPLAY
Truck Lock	The truck lock feature allows the technician to disable the lift truck. When enabled, travel and hydraulic operation are disabled and a message appears. To resume operation, enter the service menu and disable truck lock.	**Enable / Disable Truck Lock** SETUP → PASSWORD SETUP → TRUCK LOCK

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STANDARD FEATURES		
Name	**Description**	**Operation**
Password Setup	The service password is programmable and must be five digits in length. If you have lost or forgotten your lift trucks service password, contact your CLARK dealer.	**Adjust Service Password** SETUP → PASSWORD SETUP → SERVICE PASSWORD
	The sales password is programmable and must be five digits in length.	**Adjust Sales Password** SETUP → PASSWORD SETUP → SALES PASSWORD
Speed Setup	The maximum forward travel speed for economy mode is adjustable.	**Adjust Maximum Forward Speed (Economy Mode)** SETUP → SPEED SETUP → MAX SPD FWD ECO
	The maximum forward travel speed for standard mode is adjustable.	**Adjust Maximum Forward Speed (Standard Mode)** SETUP → SPEED SETUP → MAX SPD FWD STD
	The maximum forward travel speed for power mode is adjustable.	**Adjust Maximum Forward Speed (Power Mode)** SETUP → SPEED SETUP → MAX SPD FWD PWR
	The maximum forward travel speed for custom mode is adjustable.	**Adjust Maximum Forward Speed (Custom Mode)** SETUP → SPEED SETUP → MAX SPD FWD CUST.
	The maximum reverse travel speed for economy mode is adjustable.	**Adjust Maximum Reverse Speed (Economy Mode)** SETUP → SPEED SETUP → MAX SPD RVS ECO
	The maximum reverse travel speed for standard mode is adjustable.	**Adjust Maximum Reverse Speed (Standard Mode)** SETUP → SPEED SETUP → MAX SPD RVS STD

STANDARD FEATURES		
Name	**Description**	**Operation**
Speed Setup (Continued)	The maximum reverse travel speed for power mode is adjustable.	**Adjust Maximum Reverse Speed (Power Mode)** SETUP → SPEED SETUP → MAX SPD RVS PWR
	The maximum reverse travel speed for custom mode is adjustable.	**Adjust Maximum Reverse Speed (Custom Mode)** SETUP → SPEED SETUP → MAX SPD RVS CUST.
	The low speed cutback is adjustable.	**Adjust Low Speed (Turtle Mode)** SETUP → SPEED SETUP → TURTLE SPEED TRAC.
	If equipped with the hi-mast switch option, the maximum travel speed when the upright is above free lift (second stage) is adjustable.	**Adjust Maximum Speed Upright Raised (2nd Stage)** SETUP → SPEED SETUP → MAX SPEED HI MAST
	If equipped with the speed limit switch option, the maximum travel speed is adjustable.	**Adjust Speed Limit Switch** SETUP → SPEED SETUP → ESQ SPEED CUTBACK

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STANDARD FEATURES		
Name	**Description**	**Operation**
Maintenance	The lift truck has three maintenance feature options that determine what warning messages are displayed and if travel and hydraulic function will be reduced once the maintenance interval has been reached. This feature can also be turned OFF.	**Enable / Disable Maintenance Type** SETUP → HOUR SETUP-MAINT. → MAINTENANCE TYPE
	The number of hours before the warning message appears to the operator indicating future maintenance.	**Adjust Warning Message Time** SETUP → HOUR SETUP-MAINT. → MAINT. PRE-WARN TIME
	The amount of operating hours before maintenance is required. This is based upon the lift trucks hour meter.	**Adjust Maintenance Interval** SETUP → HOUR SETUP-MAINT. → MAINTENANCE TIME
	Reset the maintenance interval and return the lift truck to normal operation.	**Reset Maintenance Interval** SETUP → HOUR SETUP-MAINT. → MAINTEN. RESET
	Adjust the amount of travel speed reduction when the maintenance interval is reached.	**Adjust Travel Speed Reduction** SETUP → HOUR SETUP-MAINT. → MAINT DUE SPD TRAC
	Adjust the amount of hydraulic speed reduction when the maintenance interval is reached.	**Adjust Hydraulic Speed Reduction** SETUP → HOUR SETUP-MAINT. → MAINT DUE SPD PUMP

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Optional Features

OPTIONAL FEATURES		
Name	**Description**	**Menu Operation**
Camera	The lift truck may be equipped with a fork camera or a rear view camera. The fork camera is activated when a hydraulic function is being used. The rear view camera is activated when the lift truck is being operated in reverse. This feature can also be turned OFF.	**Enable / Disable Camera Type** SETUP → CAMERA → CAMERA TYPE
	The length of time the fork camera view is shown on the display can be adjusted from 0 to 10 seconds.	**Adjust Fork Camera Duration** SETUP → CAMERA → CAMERA TYPE
Load Weight	Shows the load weight that is displayed on the monitor menu.	**View Actual Load Weight** SETUP → LOAD WEIGHT → LOAD WEIGHT
	The actual weight of the reference load used to calibrate the load weight system is entered here.	**Adjust Reference Weight** SETUP → LOAD WEIGHT → SET REF. WEIGHT
	Allows the initial load value to be adjusted to compensate for the weight of the forks or the attachment. The initial load value is the measured weight when there is no load on the forks.	**Adjust Unloaded (1st Stage) Weight** SETUP → LOAD WEIGHT → UNLOADED-1ST STAGE
	This allows for the calibration of the load weight system when a load is raised while in free lift (1st stage of the upright).	**Adjust Loaded (1st Stage) Weight** SETUP → LOAD WEIGHT → LOADED-1ST STAGE
	This allows for the calibration of the load weight system when a load is raised above free lift (2nd stage of the upright).	**Adjust Loaded (2nd Stage) Weight** SETUP → LOAD WEIGHT → LOADED-2ND STAGE

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OPTIONAL FEATURES		
Name	**Description**	**Menu Operation**
Fork Leveling	The fork leveling feature is activated by pressing a auxiliary hydraulic button. This feature can also be turned OFF. An icon on the dash display will be shown if enabled.	**Enable / Disable Fork Leveling Type** SETUP → SET OPTIONS → PUMP CONTROL → FORK LEVELING
	The following upright tilt limit positions (in degrees) are entered using the dash display: full forward tilt, full backward tilt, and the vertical upright position.	**Adjust Upright Tilt Limit** SETUP → SENSOR TEACHING → FORK LEVELING → TILT FF ANGLE / TILT FB ANGLE / TILT VERT. ANGLE
	This feature allows the technician to teach the full forward and full backward tilt limit voltages for the fork leveling sensor.	**Adjust Fork Leveling Sensor** SETUP → SENSOR TEACHING → FORK LEVELING → LEARN TILT SENSOR
	The angle range from the vertical upright position, when tilt speed is reduced, is adjustable from 0 to 9.	**Adjust Tilt Speed Reduction** SETUP → SENSOR TEACHING → FORK LEVELING → MAST APPR. RANGE
	This feature allows the pump controller to power the tilt block valve when the upright is in the vertical position.	**Enable / Disable Tilt Block Valve Mode** SETUP → SET OPTIONS → PUMP CONTROL → TILT BLK. VALVE
	This feature prevents the hydraulic system from reaching relief pressure and also disables the pump motor when the tilt cylinders have reached the end of their stroke.	**Enable / Disable Tilt Energy Save Mode** SETUP → SET OPTIONS → PUMP CONTROL → TILT ENER SAVE
Seat Belt Mode	Option 1: if enabled, the operator must sit in the seat and fasten the seat belt to operate the lift truck. Order of operation does not matter.	**Enable / Disable Seat Belt Mode Type** SETUP → SET OPTIONS → TRACTION CONTROL → SEATBELT MODE
Smart Interlock	Option 2: if enabled, the operator must first sit in the seat, turn the keyswitch to ON, and then fasten the seat belt to operate the lift truck.	

OPTIONAL FEATURES		
Name	**Description**	**Menu Operation**
Controller Fan	The controller fans can either be set to: Option 1: on continuously when keyed on. Option 2: the pump or traction controller reaches a set temperature.	**Enable / Disable Controller Fan Mode** SETUP → SET OPTIONS → TRACTION CONTROL → FAN OUTPUT
	The controller temperature (ºC) at which the controller fans are activated is adjustable.	**Adjust Controller Fan Activation Temperature** SETUP → SET OPTIONS → TRACTION CONTROL → C.FAN START TEMP
Speed Limit Switch	If equipped with a speed limit switch, the maximum allowed travel speed is adjustable. It is adjustable as a percentage of the maximum top speed.	**Adjust Maximum Travel Speed (Speed Limit Switch)** SETUP → SPEED SETUP → ESQ SPEED CUTBACK
Hi-Mast Switch	This feature, if enabled, will reduce travel and hydraulic performance when the upright is raised to a certain height.	**Enable / Disable Hi-Mast Switch** SETUP → SET OPTIONS → PUMP CONTROL → HI MAST SWITCH
	Adjust the pump motor speed reduction when the hi-mast switch is activated. This is based on a percentage of maximum lift speed low.	**Adjust Maximum Lifting Speed (Hi-Mast)** SETUP → CONTROL SETTINGS → PUMP PARAMETER → MAX SPD LIFT HI
	Adjust the traction motor speed reduction when the hi-mast switch is activated. This is based on a percentage of maximum speed forward and maximum speed back.	**Adjust Maximum Travel Speed (Hi-Mast)** SETUP → CONTROL SETTINGS → TRACTION PARAMETER → MAX SPD HI MAST
	Adjust the traction motor deceleration rate (braking) when the hi-mast switch is activated.	**Adjust Braking Speed (Hi-Mast)** SETUP → CONTROL SETTINGS → TRACTION PARAMETER → SPEED LIMIT BRK.

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OPTIONAL FEATURES		
Name	**Description**	**Menu Operation**
Lights and Alarms	Enable or disable all accessories that are activated during reverse travel.	**Enable / Disable Reverse Travel Signal** SETUP → SET OPTIONS → TRACTION CONTROL → ACC. TRV. 1
	Option 1: directional control in the forward position. Option 2*: forward travel more than 0.5 km/h (0.3 mph). Option 3: directional control in the reverse position. Option 4*: reverse travel more than 0.5 km/h (0.3 mph). Option 5: directional control in the forward or reverse position. Option 6*: forward or reverse travel more than 0.5 km/h (0.3 mph). *N/A for North America.	**Adjust Reverse Accessory Function** SETUP → SET OPTIONS → TRACTION CONTROL → TRAVEL SIGNAL 1
	Enable or disable all accessories that are activated during forward travel.	**Enable / Disable Forward Travel Signal** SETUP → SET OPTIONS → TRACTION CONTROL → TRAVEL SIGNAL 2
	Option 1: directional control in the forward position. Option 2: forward travel more than 0.5 km/h (0.3 mph). Option 3: directional control in the reverse position. Option 4: reverse travel more than 0.5 km/h (0.3 mph). Option 5: directional control in the forward or reverse position. Option 6: forward or reverse travel more than 0.5 km/h (0.3 mph).	**Adjust Forward Accessory Function** SETUP → SET OPTIONS → TRACTION CONTROL → TRAVEL SIGNAL 2

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OPTIONAL FEATURES		
Name	**Description**	**Menu Operation**
Auxiliary Hydraulics	Enable or disable an auxiliary function.	**Enable / Disable Auxiliary 1 Function** SETUP → SET OPTIONS → PUMP CONTROL → AUX1 ENABLE
	Enable or disable an auxiliary function.	**Enable / Disable Auxiliary 2 Function** SETUP → SET OPTIONS → PUMP CONTROL → AUX2 ENABLE
	Enable or disable an auxiliary function, most commonly used for a clamp lever lock attachment. Option 1: auxiliary lever (1) and push button. Option 2: auxiliary lever (2) and push button. Option 3: auxiliary lever (1) and push button (clamp lever lock). Option 4: auxiliary lever (2) and push button (clamp lever lock).	**Enable / Disable Auxiliary 3 Function** SETUP → SET OPTIONS → PUMP CONTROL → AUX3 CLL ENABLE
Lift Limit Switch	This feature, if enabled, will not allow the upright to be raised above a determined height. Once reached, the pump motor is stopped and will not respond to a lift lever request.	**Enable / Disable Lift Limit Switch** SETUP → SET OPTIONS → PUMP CONTROL → ESQ LIFT LIMIT

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Operator Alarms

IMPORTANT!
The controller alarms described here are **operator alarms**. If an alarm appears and it is not described in this section, it is likely a **service alarm**. If a service alarm occurs, stop operation of the lift truck and contact your CLARK dealer immediately.

Operator Error Alarms - Troubleshooting			
Alarm	**Description**	**Cause**	**Action**
EM61	THERM. TEMPERATURE	Steer controller temperature too high.	Turn lift truck off and allow to cool. If alarm continues, contact your CLARK dealer.
EM65	MOTOR TEMPERATURE	Steer motor temperature too high.	Turn lift truck off and allow to cool. If alarm continues, contact your CLARK dealer.
EM219	UNINTENDED STEER	Actual steer axle angle is greater than 10º from the controller input angle, and in the opposite direction.	Turn lift truck off, then turn on. Rotate steering wheel in one direction until steer tires have returned to a normal steering range.
EM227	OUTRNG-TURN ST01	Steer axle position out of range due to traveling over a large hole or foreign object.	Turn lift truck off, then turn on. Rotate steering wheel until steer tires begin to turn. If no response, rotate steering wheel in opposite direction. If alarm continues, contact your CLARK dealer.
EM241	FB SENSOR LOCKED	Actual steer axle angle is greater than 10º from the controller input angle, and in the same direction.	Turn lift truck off, then turn on. Rotate steering wheel in one direction until steer tires have returned to a normal steering range.
EM249	FB OUT OF RANGE	Steer feedback sensor signal is out of normal range.	Turn lift truck off, then turn on. Rotate steering wheel in one direction until steer tires have returned to a normal steering range.
EM252	TWIN POT MISMAT.	Steer potentiometer voltage does not match steer controller input voltage.	Contact your CLARK dealer to check actual steer motor speed or relearn the steering potentiometer.

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Operator Error Alarms - Troubleshooting			
Alarm	**Description**	**Cause**	**Action**
PM62	THERM. PROTECTION	Pump controller temperature too high.	Turn lift truck off and allow to cool. If alarm continues, contact your CLARK dealer.
PM65	MOTOR TEMPERATURE	Pump motor temperature too high.	Turn lift truck off and allow to cool. If alarm continues, contact your CLARK dealer.
PM78	VACC NOT OK	Lift sensor input voltage out of range.	Check that the lift lever is in the neutral position. If alarm continues, contact your CLARK dealer.
PM79	INCORRECT START	Hydraulic control(s) not in neutral when lift truck turned on or seat switch open.	Check that the hydraulic control(s) are in the neutral position. Sit in the seat correctly.
PM178	MOTOR TEMP. STOP	Pump motor temperature too high.	Turn lift truck off and allow to cool. If alarm continues, contact your CLARK dealer.
PM226	VACC OUT RANGE	Lift sensor input voltage out of range.	Contact your CLARK dealer to relearn the sensor. If alarm continues, check electrical connections.
PM251	WRONG SET BAT.	Battery voltage is outside of range.	Check that battery is the correct voltage. If alarm continues, contact your CLARK dealer.
TM62	THERM. PROTECTION	Traction controller temperature too high.	Turn lift truck off and allow to cool. If alarm continues, contact your CLARK dealer.
TM65	MOTOR TEMPERATURE	Traction motor temperature is too high. Power will be reduced.	Turn lift truck off and allow to cool. If alarm continues, contact your CLARK dealer.
TM78	VACC NOT OK	Accelerator pedal input voltage is out of range.	Check that accelerator pedal is in the neutral position. If alarm continues, contact your CLARK dealer.
TM79	INCORRECT START	Directional control not in neutral when lift truck turned on or seat switch open.	Check that the directional control is in the neutral position. Sit in the seat correctly.

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Operator Error Alarms - Troubleshooting			
Alarm	**Description**	**Cause**	**Action**
TM178	MOTOR TEMP. STOP	Traction motor temperature is too high.	Turn lift truck off and allow to cool. If alarm continues, contact your CLARK dealer.
TM204	BRAKE RUN OUT	Brake pedal input voltage is out of range.	Verify brake pedal is in the neutral position and check harness connections. If alarm continues, contact your CLARK dealer.
TM226	VACC OUT RANGE	Accelerator pedal input voltage is out of range.	Contact your CLARK dealer and relearn the accelerator pedal. If alarm continues, check electrical connections.
TM228	TIMEOUT	Seat switch open for an extended period.	Check that the seat suspension firmness properly adjusted, sit in the seat correctly, and cycle the keyswitch.
TM251	WRONG SET BAT.	Battery voltage is outside of range.	Check that battery is the correct voltage. If alarm continues, contact your CLARK dealer.

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Operator Warning Alarms - Troubleshooting		
Alarm	**Description**	**Action**
C	CHARGE NOW	Charge battery now.
D	CANBUS FAIL	Check CAN bus line.
EM247	CAN BUS KO	Check CAN bus line.
ES247	CAN BUS KO	Check CAN bus line.
PM78	VACC NOT OK	Incorrect lever starting position.
PM79	INCORRECT START	Incorrect lever starting position.
PM248	NO CAN MSG.	Warning: Check CAN bus line.
TM78	VACC NOT OK	Pedal on before direction switch.
TM79	INCORRECT START	Incorrect start put in neutral.
TM147	MAINT. PRE WARN	Next maintenance is due in ____ hours.
TM149	SEATBELT OPEN	Seat belt switch open.
TM153	TRUCK LOCK	Out of service truck lock on.
TM170	WRONG KEY VOLT.	Wrong battery voltage detected.
TM248	NO CAN MSG.	Check CAN bus line.
TM249	MAINTENANCE DUE	Maintenance is due.
TS248	NO CAN MSG.	Check CAN bus line.

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Section 5. Operating Your Lift Truck

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Before Operating the Lift Truck

IMPORTANT!
Read the Operator's Manual before operating the lift truck.

WARNING

- Safe operation is always the responsibility of the operator!
- The operator must be trained and authorized to operate this lift truck.
- Only operate the lift truck in a safe and controlled manner. Improper use of a lift truck is dangerous and can cause injury or death to the operator or nearby personnel.
- Do not operate the lift truck without an overhead guard. Do not remove the overhead guard unless specifically authorized.
- Always inspect the lift truck before starting your shift. Make sure all controls and systems operate correctly and as intended from the manufacturer.
- Do not attempt to start or operate the lift truck from outside of the operator's position. Always sit in the seat with the seat belt correctly latched before operating the lift truck.
- The overhead guard is intended to protect the operator from falling objects but it cannot protect against every possible situation. Always use safe judgment and extra care when handling loads.

Starting From a Safe Condition

Before operating the lift truck, do the following:

1. **Read and understand the Operator's Manual.**
2. **Perform the required Daily Inspection.**
3. **Check that the upright is fully lowered to the ground.**
4. **Check that all lift truck controls are in neutral.**
5. **Enter the operator's station and sit in the seat.**
6. **Adjust the seat and the steering column.**
7. **Use the seat belt, ensuring it is correctly latched.**
8. **Put the directional control into neutral.**
9. **Turn the keyswitch to the ON position.**
10. **Check that the self-activating parking brake is engaged.**

Safe Operation

Look where you are going...

Check that your intended path of travel is clear of obstacles and pedestrians. Watch for other personnel, lift trucks, and any other obstructions in your path of travel and work area. Do not rely on your lift trucks warning lights or alarms to alert others while operating your lift truck. Do not allow personnel to walk under raised forks. Use the horn at intersections and wherever your view is obstructed.

Protect yourself and those around you...

Do not operate the lift truck or it's attachments from outside the operator's position. Keep arms, legs, and hands inside the operator's compartment when operating the lift truck. Do not reach or place hands, arms, legs or head into the upright when operating the lift truck. Do not use the upright as a ladder. Do not allow personnel to be near the upright when operating the lift truck.

Do not allow riders...

Do not use the lift truck to carry other personnel. The operator is the only person allowed on the lift truck.

Always have control of your lift truck...

Do not operate a lift truck if your hands or feet are wet or greasy. Avoid bumps, holes, slick spots, and debris in your path that may cause the lift truck to lose traction or tipover. If unavoidable, slow down and carefully drive past them. Always reduce speed when traveling on wet or slick areas. Avoid sudden movements when operating the lift truck. Start, stop, travel, steer, and brake in a smooth and controlled way. Operate your lift truck at a speed that allows for safe, controlled stopping. Do not raise the load except when stacking. Always travel slowly while turning, especially when unloaded.

Grades, ramps, and inclines...

Use care when operating on ramps, inclines, and uneven areas. Always travel straight up and down slowly when on a sloped surface. Do not attempt to turn or drive at an angle when on sloped surface. When operating a loaded lift truck, always travel with the forks pointed upgrade. When operating an unloaded lift truck, always travel with the forks pointed downgrade.

Practice safe operation every time...

It is your responsibility to safely operate your lift truck. Do not perform stunt driving or horseplay. Observe your work areas traffic rules. Always be in control of your lift truck. Read and understand the information in this Operator's Manual. Stay alert and look for warning icons and indicators that may appear on the display. If an error message appears, immediately stop operating the lift truck. Report the issue to your supervisor or lift truck technician. Do not operate a lift truck that is faulty or is in need of repair.

WARNING

Only operate in work areas that have been approved for your lift truck type. Always check the classification of the work area in which you intend to operate. The type designation for the lift truck is shown on the data and capacity plate.

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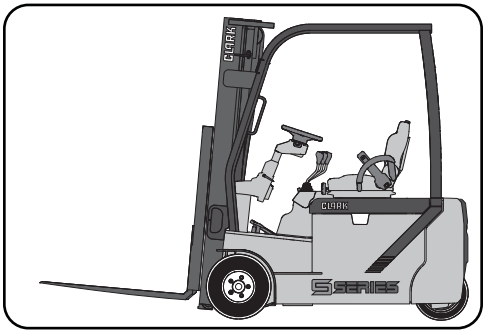
Positioning the Forks for Traveling

When traveling with or without a load, it is recommended to have the forks raised slightly and the upright tilted back. This helps prevent the fork tips from catching on the ground or debris while traveling. It also helps to reduce the amount of fork wear.

1. Raise the forks approximately 150-200 mm (6-8 in) above the floor.
2. Tilt the upright back slightly to raise the fork tips.



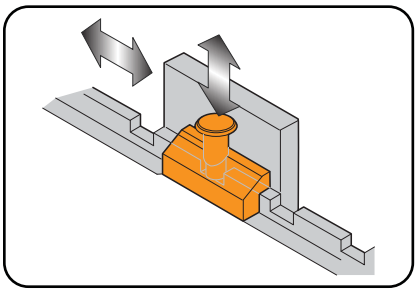
WARNING
Do not travel with a raised upright to avoid possible tipover.

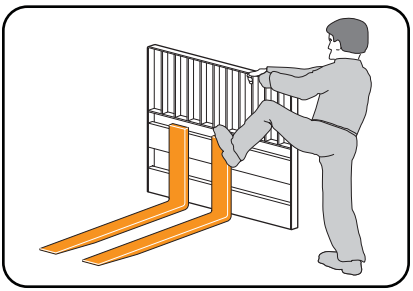
NOTE
The most common conditions that affect lift truck stability are: surface condition, grade, truck speed, load weight, and load size. Lift trucks equipped with optional attachments may have the operating stability of a partially loaded lift truck, even when unloaded.

Adjusting the Forks

The forks are adjustable on the carriage. When carrying a load, the forks should be spaced as far apart as possible. Position each fork an equal distance from the center of the carriage.

1. Raise the carriage so that the forks do not contact the ground.
2. Tilt the upright fully forward.
3. Release the fork locking pin.
4. Slide the fork to the desired position using your foot (as shown below).
5. Secure the fork using the locking pin.
6. Repeat the procedure for the other fork.





WARNING
Forks are heavy and can cause a crushing injury. Use care when adjusting the forks.

Load Handling

Overview

- Always handle loads that are at or below the lift truck's rated capacity. The rated capacity can be found on the lift truck's data plate. This rating specifies the maximum load that should be lifted. However, other factors such as using a special attachment, handling loads with a high center of gravity, or traveling over uneven surfaces may reduce the safe working load to be less than the rated capacity. Under these conditions, the operator must reduce the load carried so that the lift truck remains stable and safe to operate.
- Do not handle loads that are loose, unevenly stacked, or unstable that can easily shift and fall. Only handle stable loads or loads that are safely secured. Always stack and band loose loads. Center the load on the forks. Do not lift a load that may fall.
- Do not handle loads that are taller than the fork carriage unless the load is properly secured to prevent it from sliding back or falling. Always keep the back of the load against the carriage.
- If a load is placed on the end of the forks, it lowers the lift truck's stability. Always lift and lower the load with the upright either tilted slightly tilted back or vertical. Do not tilt the upright forward when the load is raised, except to pick up or drop off a load over a rack or stack.
- The lift truck is designed to handle loads positioned forward of the front wheels so that the weight of the load is counterbalanced by the weight of the lift truck.
- The farther the center of gravity of the load is from the lift truck's load center, the greater the leverage and the more force will attempt to lift the rear of the lift truck. Always position the load as close to the front wheels as possible and back against the carriage.
- If the lifting chains become slack, this may indicate there is upright or carriage hang up.

Picking Up and Moving Loads

- When picking up a load, approach the load slowly and align the lift truck square with the load. The forks should be adjusted to fit the load or pallet being handled and spaced as wide as possible to provide the best stability and balance. Before lifting, make sure the load is centered and the forks are fully supporting the load. The fork length should be at least two-thirds the length of the load. Use the lift and the tilt controls to adjust the forks to the correct height and angle to easily engage the load pallet. Move forward until the forks are squarely and completely under the load.
- If the forks are longer than the load, move back until they no longer extend beyond the load. Raise the load high enough to clear the floor. Move back slowly, enough to clear any obstacles, and set the load down. Move forward until the load is squarely positioned against the load backrest or carriage.
- Raise the load from the floor or stack by tilting the upright back just enough to lift the load from the surface. When stacking or tiering, only use enough backward tilt to stabilize the load.
- Raise or lower the load to traveling height and tilt the upright fully back to travel, except for loads that must be transported as level as possible.
- Make sure the forks do not extend past the load.

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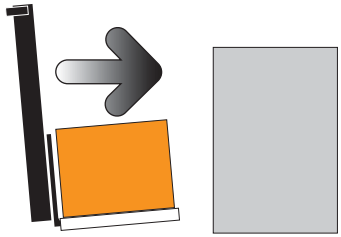
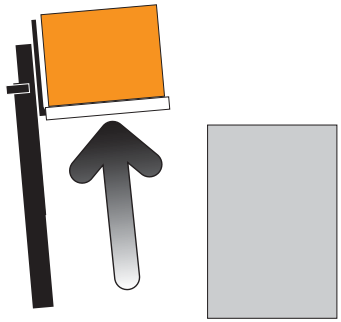
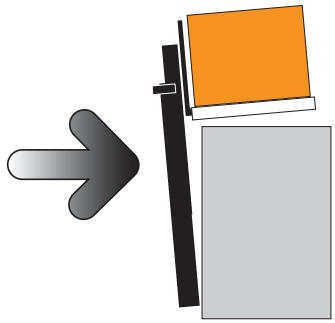
Traveling with a Load

- Always travel with the load as low as possible and the upright tilted back. Do not travel with a raised load. Do not attempt to raise the load except when stopped or stacking.
- Know and follow all traffic rules and regulations for your work area. Look and be aware of other vehicles, personnel, and other obstacles. Always look in the direction of travel and ensure a clear view of your intended path of travel. If a load blocks your visibility, travel in reverse with the load trailing, except when traveling up a slope or incline.
- Avoid sudden movements when carrying a load. Always slow down when turning. During normal operation, always start, stop, travel, steer, and brake smoothly. Operate the hydraulic controls slowly and smoothly.
- Avoid traveling over bumps, holes, and loose materials or debris to prevent loss of control or damage to the lift truck. Always slow down and cross at an angle when traveling over railroad tracks.
- Be careful when traveling with long, high, or wide loads. Look and be aware of the clearances around the lift truck and the load when traveling. Raise the forks or attachment only high enough to pick or stack the load. Look for and avoid obstructions, especially ones that are overhead.
- Know that exaggerated tail swing occurs when turning while traveling forward. This is characteristic of all lift trucks that are steered by the rear wheels. Always check the tail swing area of the counterweight to be sure it is clear before attempting to turn.
- Be aware about the current stability condition of your lift truck. When special attachments are used, additional care should be used when securing, manipulating, positioning, and transporting a load. Special lift truck attachments add weight and complexity to the lift truck, make sure to operate a lift truck equipped with an attachment as partially loaded when not handling a load.

WARNING

- When operating the lift truck, ascend or descend grades slowly, and with caution.
- On grades 10% or greater, always limit travel speed to 4.8 km/h (3.0 mph) or less.
- Do not exceed the maximum operating grade for your specific lift truck model, as defined in this Operator's Manual.

Stacking a Load		
Step	**Procedure**	**View**
1	Drive forward slowly while aligning the load squarely with the stack	
2	Raise the load as the lift truck approaches the stack.	
3	Drive forward slowly until the load is almost touching the stack. The leading edge and sides of the load pallet should be lined up with the near edge and side of the load or rack on which you are stacking.	

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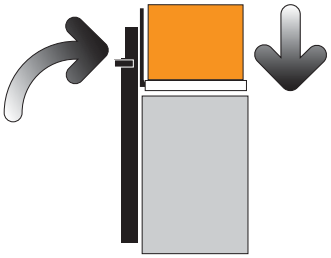
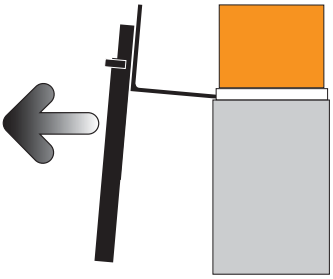
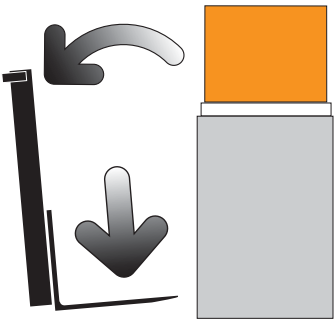
Stacking a Load		
Step	**Procedure**	**View**
4	Stop close to the stack and raise the load high enough to clear the top surface of the stack. Position the load slowly so that it aligns with the load or rack beneath it. Use care not to move or damage nearby loads. Once aligned, tilt the upright to the vertical position and carefully lower the load until fully supported on top of the stack.	
5	Lower the forks slightly to disengage the load pallet. Tilt the forks slightly forward, if needed to clear the pallet.	
6	Check for nearby personnel and obstructions, then carefully move backward until the forks are clear of the stack. Stop and lower the forks to the travel position and then tilt the upright fully back.	

Unstacking a Load

1. Slowly approach the stack with the lift truck lined up squarely with the load.
2. When near the stack, tilt the upright to the vertical position.
3. Raise the forks high enough to freely engage the load pallet. Adjust fork angle as necessary to position the forks squarely under the load.
4. Move forward until the forks are under the load. Make sure that the forks do not extend beyond the load. If the forks are longer than the load, move backward until the fork tips do not extend beyond the load.
5. Raise the load enough to clear the top surface of the stack. Move backward slightly and then set the load down. Move forward until the front face of the forks contacts the load.
6. Tilt the upright back slightly until the load is raised high enough to clear the stack or, with the upright in the vertical position, raise the forks until the load is raised high enough to clear the stack. Tilt the upright back just enough to stabilize the load.
7. Check for nearby personnel and obstructions, then carefully move backward until clear of the stack.
8. Stop and lower the load to the travel position and then tilt the upright back. Make sure the load is fully back against the carriage or front face of the forks. Some loads may have to be transported as level as possible.

Dropping Off a Load

1. Move the load into the correction position.
2. Tilt the upright to the vertical position.
3. Fully lower the load.
4. As needed, adjust the fork height and tilt the upright forward slightly to easily remove the forks from the load pallet.
5. Carefully move backward until the forks are clear from the load.
6. Raise the forks to the travel position and tilt the upright fully back.

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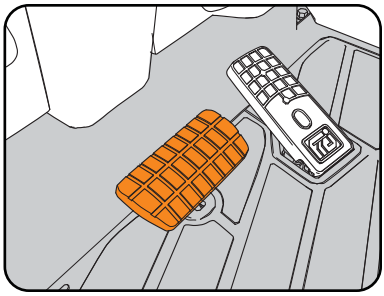
Braking

Normal Braking



The braking system for the lift truck is electronically controlled. When the brake pedal is depressed while traveling, the drive motor direction is reversed and the lift truck slows down.

Stopping the Lift Truck

Push down firmly on the brake pedal until the lift truck comes to a stop. The farther the brake pedal is depressed the quicker the lift truck will slow down and come to a stop. When fully stopped, the self-activating parking brake will engage.

Plugging

The lift truck can change direction, without braking, by plugging. Plugging is a method of braking the lift truck and changing direction quickly. While traveling forward or backward, move the directional control lever to the opposite direction while keeping the accelerator pedal depressed. The lift truck will slow to a controlled stop and then begin to accelerate in the opposite direction.

The plugging distance is controlled using the accelerator pedal. The farther the accelerator is depressed, the shorter the distance will be until the lift truck changes direction. The shortest plugging distance occurs when the accelerator pedal is fully depressed.

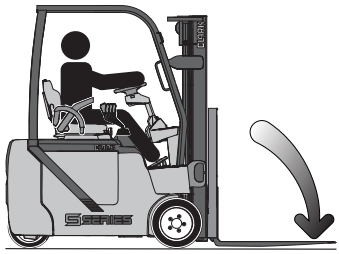
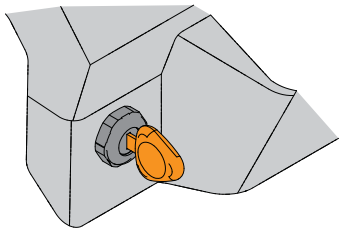
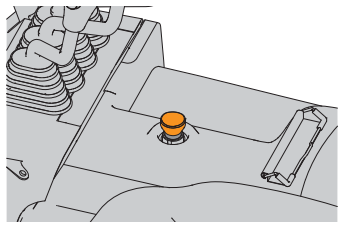
Release Braking

When the accelerator pedal is released while traveling, the drive motor direction is reversed and the lift truck will come to a controlled stop. When fully stopped, the self-activating parking brake will engage.

WARNING

Always stop the lift truck using smooth, controlled braking. Excessively hard braking can cause wheel sliding and loss of control, which can lead to a tipover or accident.

Parking

Parking the Lift Truck		
Step	**Procedure**	**View**
1	Stop the lift truck. Put the directional control in neutral. Lower the upright to the ground.	
2	The lift truck is equipped with a self-activating parking brake. An icon on the dash display appears when the parking brake is engaged.	
3	Turn the key switch OFF.	
4	If leaving the lift truck for an extended period, press the emergency disconnect, remove the key, and block the wheels.	

WARNING

- Park away from high traffic areas.
- Do not block emergency exits or routes, stairways, or equipment.
- Do not park on a ramp or grade.

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Section 6. Maintaining Your Lift Truck

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WARNING

THIS SECTION IS INTENDED FOR SERVICE TECHNICIANS ONLY!
The following information is intended as a reference when determining your lift truck's specific planned maintenance (PM) schedule. For complete maintenance and service information, refer to the service manual or your CLARK dealer.

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Safe Maintenance

The following instructions have been prepared using current industry and government safety standards applicable to industrial lift truck operation and maintenance. They are listed here for the reference and safety of all workers during inspection and maintenance operations. If you have any questions regarding the correct inspection or maintenance procedures for your lift truck, please contact your CLARK dealer.

1. Lift trucks can become hazardous if maintenance is neglected. Therefore, suitable maintenance facilities, trained personnel, and procedures shall be provided.
2. Maintenance and inspection of all lift trucks shall conform with the manufacturer's recommendations.
3. A scheduled planned maintenance, lubrication, and inspection system shall be followed.
4. Properly ventilate all work areas and keep floor clean and dry.
5. Do have fire protection equipment present in the work area. Do not use an open flame to check the battery's electrolyte level. Do not use open pans of fuel or flammable cleaning fluids when cleaning parts.
6. Operation of the lift truck to check performance must be conducted in an authorized, safe, and clear area.
7. **Before Starting Maintenance or Repair**:
   - Fully lower the upright and relieve the hydraulic pressure before working on the hydraulic system.
   - Disconnect the battery before working on the electrical system.
   - Raise and support the lift truck using an appropriate lifting device.
   - Install appropriate supports prior to beginning work.
8. **Before Driving the Lift Truck**:
   - Connect the battery connector.
   - Insert the key and turn the keyswitch to the on position.
   - Check that the path of travel is clear.
   - Check the function of the directional controls and the emergency disconnect switch.
   - Check the service and emergency brake functions.
9. **Before Leaving the Lift Truck**:
   - Park the lift truck in a designated area.
   - Fully lower the upright to the ground.
   - Turn the keyswitch off and remove the key.
   - Disconnect the battery connector.
10. All brakes, steering mechanisms, control mechanisms, warning devices, lights, guards and safety devices, lift mechanisms, and frame members must be carefully and regularly inspected and maintained to a safe operating condition.
11. Specialized lift trucks or devices designed and approved for hazardous area operation must receive special attention to ensure that maintenance preserves the original, approved safe operating features.
12. The hydraulic system must be regularly inspected and maintained to ensure that excessive leakage (drift) has not developed to the extent that it creates a hazard.
13. All batteries, motors, controllers, switches, protective devices, electrical conductors, and connections must be inspected and maintained.
14. Refer to the OEM manufacturer's (CLARK) procedures for replacing battery contacts to avoid injury or damage to the equipment.
15. Lift trucks must be kept clean to minimize the risk of fire and to aide in the detection of damaged or defective parts.
16. Always use replacement parts and fluids that are of a quality at least equal to that of the Original Equipment Manufacturer (OEM).

Operator's Daily Checklist

Operator's Daily Checklist

Date: _____

Truck Type: ☐ IC Ride (LPG/Diesel/Gas) ☐ Electric Ride ☐ Electric Narrow-Aisle ☐ Electric Walkie-Pallet-Stacker

Truck Serial Number: _____ Operator: _____ Supervisor's OK: _____

Current Hour Meter: _____

Do the following visual checks before the start of each shift:

- Mark each item accordingly: **OK** ☐ **NR** ☒ **NR** = Needs Repair
- Circle the problem and describe in detail using the space provided below.
- Notify your supervisor and/or maintenance department immediately if any issue is found.
- **NEVER OPERATE A DAMAGED OR FAULTY TRUCK!**

OK	NR	VISUAL CHECKS
		Body and Exterior (damaged, worn, missing)
		Wheels and Tires (damaged, worn, loose)
		Battery (damaged, electrolyte level, loose)
		Upright (damaged, loose, missing)
		Forks (damaged, worn, loose)
		Overhead Guard (damaged, loose, missing)
		Data Plate and Decals (damaged, missing)
		Operator's Manual (damaged, missing)
		Hydraulic Fluid (level, dirty, leaking)
		Drive Axle Fluid (level, dirty, leaking)
		Steer Axle Fluid (level, dirty, leaking)
		Brake Fluid (level, dirty, leaking)
		Engine Oil (IC) (level, dirty, leaking)
		Engine Coolant (IC) (level, dirty, leaking)
		Engine (IC) (rough idle, noisy, leaking)

OK	NR	VISUAL CHECKS
		Dash Display (damaged, operation)
		Gauges (damaged, operation)
		Alarm Codes (controller, DTCs)
		Seat Belt (damaged, worn, operation)
		Horn (damaged, operation)
		Lights (damaged, operation)
		Alarms (damaged, operation)
		Direction Control (loose, binding, operation)
		Steering (loose, binding, operation)
		Park Brake (loose, binding, operation, adjustment)
		Service Brake (loose, binding, operation, adjustment)
		Lift (loose, binding, operation, excessive drift)
		Lower (loose, binding, operation, excessive drift)
		Tilt (loose, binding, operation, excessive drift)
		Auxiliary (loose, binding, operation)

Description of Problem(s):

NOTE

CLARK has prepared an *Operator's Daily Checklist* to assist you in performing and documenting your daily inspections. This form is available from your CLARK dealer.

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Daily Inspection

Daily Inspection Overview	Every 8-10 Hours (Daily)	OK	NA	Explanation
CHECK				
Obvious damage	●			
Fluid leaks	●			
Drive and steer tires	●			
Capacity plate and warning decals	●			
Load backrest and attachment	●			
Upright and lift chains	●			
Overhead guard	●			
Battery cables and connections	●			
Ground strap chain	●			
Seat and hip restraint condition	●			
Seat belt operation	●			
Seat switch operation	●			
Dash display operation	●			
Error messages or alarms	●			
Horn and light operation	●			
Hydraulic operation	●			
Speed control operation	●			
Steering control operation	●			
Service brake operation	●			
Parking brake operation	●			

WARNING

OSHA requires the operator to inspect the lift truck before beginning each shift to ensure a safe operating condition.

Visual and Operational Inspections

Lift Truck Exterior

- Check for obvious damage, fluid leaks, or other maintenance issues.
- Check that all safety, capacity, and warning plates and decals are attached and legible.

Wheels and Tires

- Check the condition of the tires and tread.
- Check the wheel lug nuts.

Load Backrest and Forks

- Check for excessive wear and damaged or missing parts.
- Check for cracks and bent parts.
- Check that the fork tips are level.

Upright and Lift Chains

- Check the lift chains for excessive stretch and wear, broken links, misaligned pins, and corrosion.
- Check the lift chains for proper lubrication and correct adjustment (equally tensioned).
- Check the upright rails for excessive wear (metal flaking).
- Check the rollers for excessive wear and proper lubrication.
- Check for hydraulic fluid leaks and loose hoses and fittings.

Overhead Guard

- Check for damage to the overhead guard.
- Check that the overhead guard is securely attached to the frame.
- Check that the overhead guard has not been modified.

Battery and Cables

- Check the battery for damage and leaks.
- Check the battery receptacle, cables, and terminals.
- Check that the ground strap chain is installed and touching the floor.

Seat Belt and Seat Switch

- Check for any obvious damage.
- Check that the seat belt functions and latches correctly.
- Check that truck does not operate if the operator is not in the seat.

Dash Display and Errors

- Check that the dash display boots when the lift truck is turned on.
- Check for any controller alarms (errors).

Horn and Lights

- Check the horn.
- Check that the work lights (if equipped) work correctly.
- Check that the warning lights (if equipped) work correctly.

Hydraulics

- Check the lift, lower, tilt, and auxiliary (if equipped) hydraulic functions.
- Check for hydraulic pump cavitation when the upright is fully raised.
- Check for binding or rough operation of the upright (racking).

Steering and Speed Control

- Check that the directional control changes the lift truck direction properly.
- Check that the steering is smooth and allows for a full range of motion.
- Check that the lift truck accelerates smoothly and with no unusual noises.

Service and Parking Brake

- Check that the service brake works properly.
- Check that the self-activating parking brake (SAPB) works properly.

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Cleaning

Cleaning Rules

Always maintain a clean lift truck. Do not allow debris or contaminants to accumulate on the lift truck. Clean any excess or leaking grease and oil before operating the lift truck. Before attempting to clean the lift truck, make sure to prevent shorting (arcing) of the electric circuits.

Your specific operating environment determines the amount and extent of cleaning required for your lift truck. For severe truck applications, frequent cleaning is required to allow for safe and optimal lift truck operation.

- Disconnect the battery before cleaning the lift truck.
- Use clean, dry low-pressure air and non-conductive, anti-static brushes to clean electrical components.
- Do not use pressurized water to clean the lift truck.
- Do not use flammable solvents to clean the lift truck.
- Clean the lift truck at least every PM interval.
- After cleaning, check all lift truck functions operating and returning to service.

CAUTION

Per OSHA, when using compressed air to clean the lift truck, air pressure must **not** be greater than 207 kPa (30 psi).

WARNING

Always wear appropriate eye protection when cleaning.

Planned Maintenance

Operating Conditions

Planned maintenance intervals are mostly influenced by operating conditions. The service intervals specified in this Operator's Manual are for normal operation only. For severe or extreme operation, the maintenance interval should be shortened to ensure optimal lift truck performance and reliability. Contact your authorized CLARK dealer if you have questions regarding the recommended service intervals for your specific lift truck application.

Normal Operation:

Standard 8 to 10 hour material handling operation in a clean, indoor location with smooth and level floors.

Severe Operation:

Extended operating hours, continuous operation, or routine capacity loads.

Extreme Operation:

High or low temperatures, sudden temperature changes, outdoor use on rough and uneven floors, or dirty environmental conditions.

NOTE

The maintenance intervals described in this Operator's Manual are for lift trucks that operate for a standard 8-10 hour shift in normal operating conditions.

NOTE

- Inspect your lift truck before each shift.
- Fill out a daily inspection sheet. Retain for your records.
- Report any issues to your supervisor or service technician.
- Do not operate your lift truck until any issues have been corrected.

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PM Service Intervals	Every 450-500 Hours (6 Months)	Every 900-1000 Hours (12 Months)	Every 2000 Hours (Yearly)
CHECK			
Wheel fastener torque	■		
Drive and steer axle fluid levels	■		
Hydraulic fluid level	■		
Battery electrolyte level	■		
Drive, pump, and steer motors	■		
Lift chain stretch and wear	■		
Critical fastener torques	■		
CLEAN			
Drive, pump, and steer motors	■		
Controllers	■		
Battery vents and terminals	■		
Drive axle breathers	■		
Hydraulic tank breather	■		
Hydraulic control linkage	■		
LUBRICATE			
Lifting chains	■		
Upright / carriage rails and rollers	■		
Upright mounting pins	■		
Tilt cylinder ends	■		
Hood hinges	■		
TEST			
Battery load voltage	■		
Tilt and lift cylinder drift	■		
Electromagnetic brakes		■	
Main and auxiliary relief pressure			■
REPLACE			
Drive and steer axle fluid		♦[2]	■[1]
Hydraulic tank breather		■	
Hydraulic tank filter			■
Hydraulic tank fluid			■

[1]Normal operation.

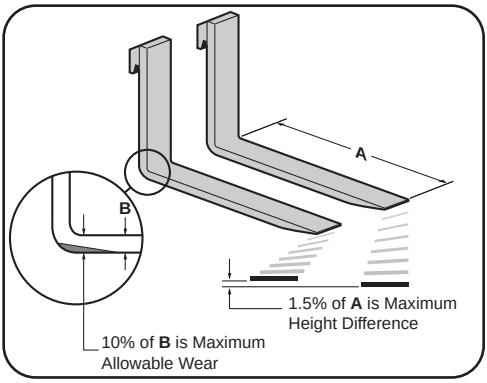
[2]Severe or extreme operation.

Forks and Lift Chain

Fork Inspection

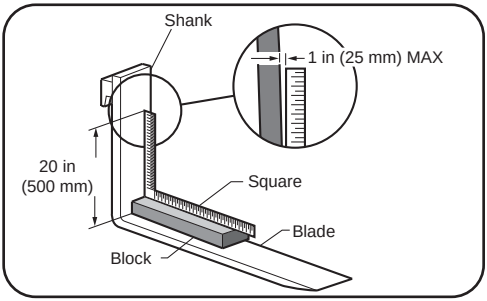
Inspect the forks for bending and wear:

- The top surfaces of the forks should be level with each other.
- If the height difference between the fork tips is greater than 1.5% of the blade length (**A**), then the forks must be replaced.
- If the fork heel is worn by more than 10% of the thickness (**B**) of the fork blade, then the forks must be replaced. The load capacity of the forks is reduced when the forks are excessively worn.



Inspect the forks for twists and bends:

- Position a 50 mm (2 in) thick block, at least 100 mm (4 in) wide and 600 mm (24 in) long, on the blade of the fork with the 100 mm (4 in) surface against the blade.
- Position a 600 mm (24 in) square on the top of the block and against the shank.
- Check the fork gap at 500 mm (20 in) above the blade. If the gap distance is greater than 25 mm (1 in), then the forks must be replaced.



WARNING

Do not operate a lift truck with bent, damaged, or worn forks.

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Lift Chain Inspection and Lubrication

During normal operation, inspect and lubricate the lift chains every 450 to 500 hours. If operating in a corrosive or extreme working condition, inspect the lift chains more frequently.

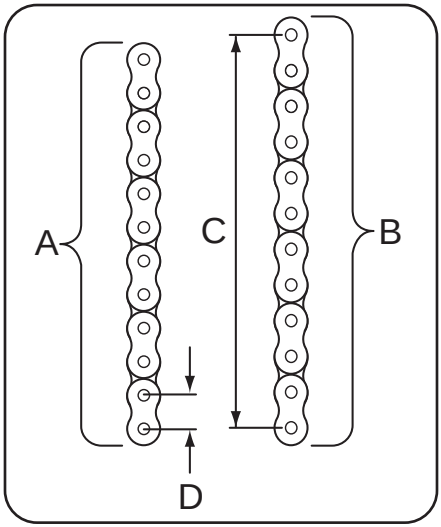
Be sure to check for the following: corrosion, cracked plates, raised or turned pins, tight joints, excessive wear, and worn pins and holes.

Lift chain lubrication is a critical part of your planned maintenance program. The correct and timely lubrication of the lift chains will also maximize their service life.

Lift Chain Wear and Replacement Criteria:

The lift chain will gradually stretch over time during normal operation. When a section of chain has stretched 3% or more, it is considered excessively worn and must be replaced. When checking for chain stretch, always measure a segment of chain that moves over a sheave.

- **New Chain Length (A):** distance from the first pin counted to the last pin counted in a span while the chains are lifting a small load.
- **Worn Chain Length (B):** distance from the first pin counted to the last pin counted in a span while the chains are lifting a small load.
- **Span (C):** number of pins in the segment of chain to be measured.
- **Pitch (D):** distance from the center of one pin to the center of the next pin.



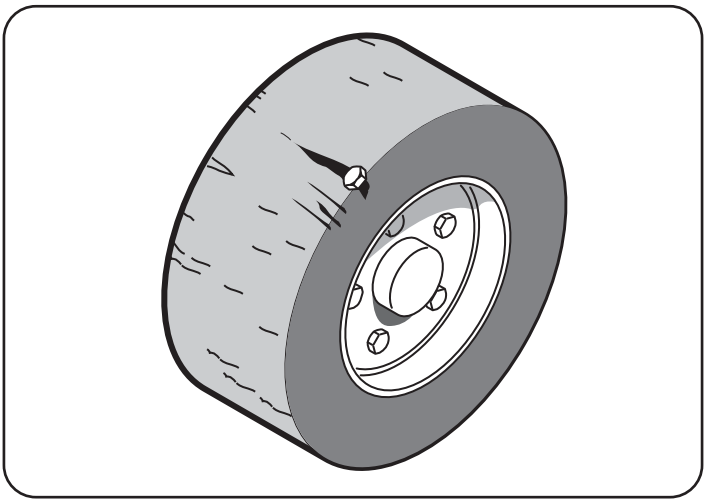
WARNING
Do not attempt to repair a worn or broken lift chain.

Wheels and Tires

Inspect the drive and steer wheels and tires every day before operating the lift truck.

Do the following when inspecting the wheels and tires:

- Inspect the tires for excessive wear. Replace if needed.
- Remove any embedded foreign objects from the tires.
- Inspect the tire for large cracks or missing chunks.
- Check for loose or missing wheel fasteners. Tighten any loose or replaced fasteners to the correct torque specification. Refer to your lift truck's service manual for the correct specifications.



WARNING

Tires that are excessively worn or damaged can lower the lifting capacity of your lift truck. Always replace damaged or worn tires.

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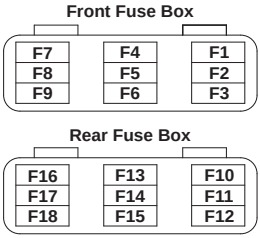
Fuses

The lift truck is equipped with two fuse boxes and three main fuses. The front fuse box is located in front of the battery compartment and accessed by removing the floor plate. The rear fuse box is located on the rear left side of the truck and accessed by raising the hood.

The main fuses for the traction, pump, and steer motors and controllers are located in the rear of the lift truck and accessed by raising the hood.



Number	Description	Amp Rating
F1	Key Switch	10A
F2	Display	2A
F3	12V Converter	10A
F4	Lowering Valve Coil	5A
F5	Headlights / Rear Work Light	3A
F6	Turn Signals	3A
F7	Brake Lights	2A
F8	Horn	5A
F9	Power Jack / USB	5A
F10	Traction - Key ON	7.5A
F11	Pump - Key ON	7.5A
F12	Steer - Key ON	7.5A
F13	Traction - Positive In	10A
F14	Steer - Positive In	10A
F15	Strobe Light	2A
F16	Backup Alarm / Backup Lights	5A
F17	Cooling Fans	2A
F18	Inclinometer Sensor	2A
F20	Cold Storage	5A
	Steer Motor and Controller	40A
	Pump Motor and Controller	350A
	Traction Motor and Controller	500A

Battery

Battery Service Area

The industrial battery service area must be in a location dedicated for that purpose. The area must be free of all nonessential combustible materials.

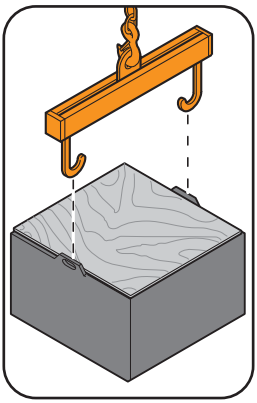
The battery service area must have the following:

- Ability to clean and properly dispose of spilled electrolyte solution.
- Appropriate personal protective equipment (PPE) such as face shields, protective aprons, and rubber gloves.
- Fire prevention and protection.
- Battery charger(s) protected from accidental collision damage.
- Adequate ventilation to allow excess gas to disperse.
- An eyewash station when handling acid concentrates greater than 50% (or a specific gravity greater than 1.40).
- A conveyor, overhead hoist, or other suitable lifting equipment must be provided for safe handling of batteries.

Battery Handling

When removing or installing the battery, do the following:

- Ensure the service area is equipped with the proper tools designed for moving industrial batteries, such as a conveyor or overhead hoist.
- Use lift hooks that have safety latches and are the correct size.
- Use a specialized attachment device, such as an insulted spreader bar, to install the lifting device to the battery. The width of the spreader bar must be the same as the width of the battery, to prevent damage to the battery.
- If the battery does not have a cover or has exposed terminals or connectors, cover the top with an insulating material, before installing the lifting device.
- Chain hoists must be equipped with load chain containers to store excess lifting chain.
- Keep all tools or other metal objects away from the battery terminals.



WARNING

Industrial batteries are heavy and awkward to handle. Use an appropriate lifting device and proper attachment to lift the battery.

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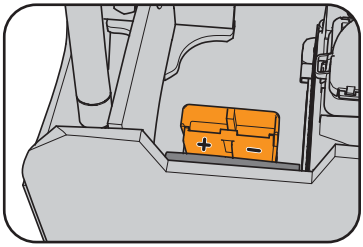
Battery Charging

Charging the Battery:

1. Safely park the lift truck.
2. Raise and secure the hood.
3. Check all cables and connections for damage.
4. Disconnect the battery cable from the battery receptacle.
5. Connect the battery cable to the charger.
6. Follow the recommended procedure provided by the battery and/or charging station manufacturer(s).



WARNING

Do not smoke or allow open flames or sparks near battery charging areas or batteries. If electrolyte (sulfuric acid) solution contacts your eyes or skin, flush with water and seek medical attention immediately. Remove the battery from the lift truck before cleaning the battery. Battery service must be performed by authorized personnel only.

Battery Care

Cleaning

The recommended method of cleaning a lead-acid industrial battery is to use a solution of baking soda dissolved in water and rinsed using a low pressure spray of cool, clean water. After cleaning, apply an appropriate protectant to the terminals and cable connections to prevent corrosion. Always refer to and follow the instructions provided by your specific battery manufacturer regarding the correct battery maintenance and care.

Service Records

Record all battery service and maintenance to maximize the service life of your battery and lift truck. Select a test cell and record the readings of the specific gravity and temperature before and after charging along with the date. It is best to vary the location of the test cell to distribute any loss of electrolyte. Every two to three months, record all battery readings including specific gravity, temperature, and voltage.

Optimize Battery Life

- Follow normal battery maintenance procedures, recharging before 80% discharged and with periodic equalizing charges.
- Do not add acid to the battery. Only a qualified battery technician should determine if this is necessary.
- Check the battery electrolyte level after charging. Add distilled water if the top of the separators or plates are visible. Do not overfill!
- Use a proper lifting device that will not put pressure on the battery case when lifting or moving the battery.
- Keep open flames, sparks, tools and other metal objects away from the top of battery to prevent arcing.
- Do not overcharge the battery.
- Keep the battery clean and dry.
- Retain all battery service records.

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Section 7. Towing and Lowering

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Emergency Towing

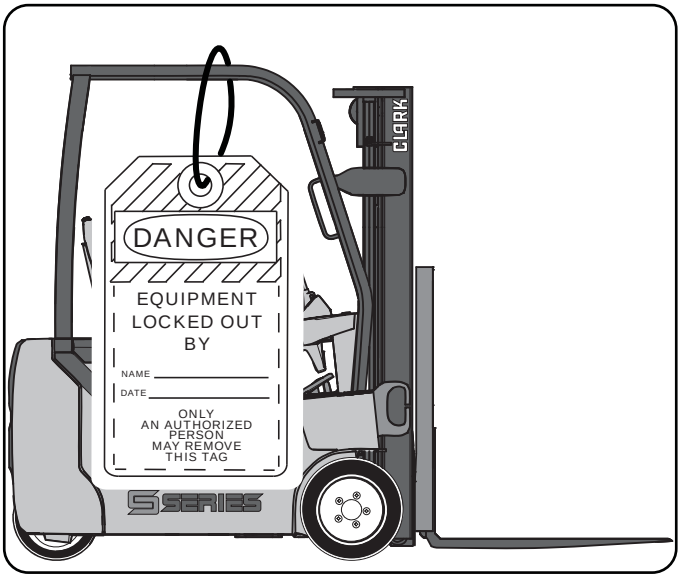
WARNING

THIS SECTION IS INTENDED FOR SERVICE TECHNICIANS ONLY!
The following information is to be used as a reference. For complete maintenance and service information, refer to the service manual.

Disabled Lift Truck

If the lift truck becomes disabled...

- Safely park the lift truck and remove the key.
- Attach an **OUT OF SERVICE** tag.
- Report the issue to your supervisor or certified lift truck technician.

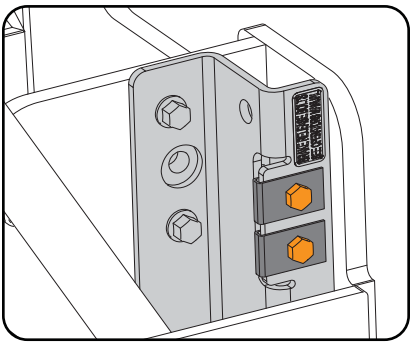


WARNING

Do not operate a lift truck that requires service or repair. Do not attempt to service or repair a faulty lift truck yourself.

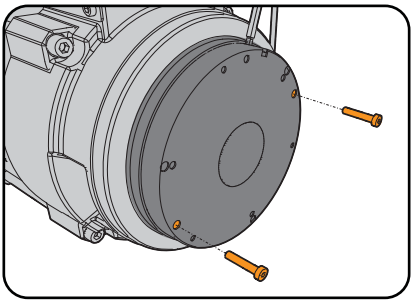
Safe Towing Rules:

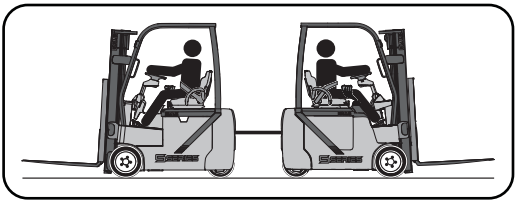
- Do not tow on a grade or if ground conditions are poor.
- If using another lift truck to tow, make sure it is of equal or greater size and carrying a partial load to ensure adequate traction.
- Always use approved tow bars and connections.
- Do not exceed 8 km/h (5 mph) when towing a lift truck.
- An operator must be seated on the lift truck to be towed.
- Make sure the parking brakes are released before attempting to tow the lift truck.



Towing a Disabled Lift Truck:

1. Raise and secure the upright off of the ground.
2. Check that the counterweight is securely mounted.
3. Block the drive wheels.
4. Release the parking brakes:
   a. Raise the hood and remove the four release bolts (M5x0.8x25, fully threaded) from their stored positions.
   b. Remove the floor plates and pedal assembly.
   c. Install the release bolts to each brake assembly.
   d. Tighten the release bolts until each brake is fully released. Do not overtighten.





5. Install an approved tow bar to the tow pins on each lift truck.
6. Remove the wheel blocks and tow the disabled lift truck to a designated area.
7. Remove the release bolts and return them to their storage locations before returning the lift truck back into service.

CAUTION

The brake release bolts must be removed before operating or damage will occur.

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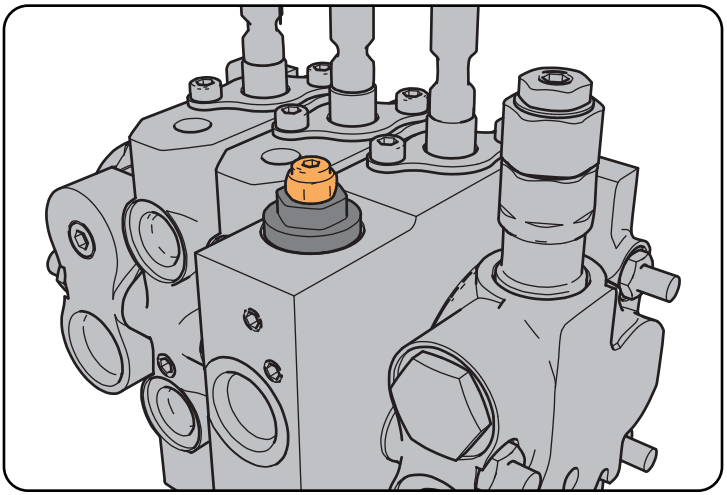
Emergency Lowering

Lowering the Upright

The lift section of the hydraulic control valve is equipped with an override release which, during an emergency or failure situation, can be used to safely lower the upright.

1. Loosen the lock nut securing the release screw.
2. Loosen the release screw.
3. Use the lift lever to carefully lower the upright to the ground.
4. Tighten the release screw to resume normal operation.



WARNING

Do not stand under or near a raised upright. Make sure all personnel are a safe distance away before attempting to lower the upright.

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Section 8. Specifications

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SE15-25T 112

WARNING
Always know the rated load capacity and lift truck weight for your specific lift truck by referring to the data plate attached to the lift truck.

If the data plate is missing, damaged, or modifications have been made to the lift truck that may affect the rated load capacity or weight of the lift truck, then it must be replaced. Contact your CLARK dealer if you require a new or updated data plate.

CAUTION
CLARK products and their specifications are subject to improvements and change without obligation of prior notice.

NOTE
Always use genuine CLARK replacement parts and fluids.

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IMPORTANT!
The **rated load capacities** shown below are based on lift trucks equipped with a standard upright (STD) with a maximum fork height (MFH) of 3080 mm (121 in), standard forks, and a minimum weight battery.

Rated Load Capacity

Model	Rated Load Capacity			
	Load Center: 500 mm (19.6 in)		*Load Center: 24 in (610 mm)*	
	kg	*lb*	*lb*	*kg*
SE15T	1500	3306	3000	1361
SE17T	1700	3747	3500	1588
SE20T	2000	4409	4000	1814
SE25T	2500	5511	5000	2268

IMPORTANT!
The **lift truck weights** and **drive axle weights** shown below are based on lift trucks equipped with a triple stage upright (TSU) with a maximum fork height (MFH) of 4475 mm (188 in), sideshifter attachment, standard forks, and a minimum weight battery.

Lift Truck Weight

Model	Wheelbase		Battery Compartment Height		Gross Weight (Loaded)		Service Weight (Unloaded)	
	mm	*in*	*mm*	*in*	*kg*	*lb*	*kg*	*lb*
SE15T	1188	46.8	655	25.8	4775	10528	3415	7528
SE15T	1188	46.8	786	31.0	4810	10604	3449	7604
SE15T	1331	52.4	655	25.8	4673	10302	3312	7302
SE15T	1331	52.4	786	31.0	4933	10875	3572	7875
SE17T	1331	52.4	655	25.8	5063	11162	3475	7662
SE17T	1430	56.3	655	25.8	5144	11341	3557	7841
SE20T	1331	52.4	786	31.0	5738	12650	3924	8650
SE20T	1430	56.3	655	25.8	5534	12201	3720	8201
SE20T	1430	56.3	786	31.0	5711	12590	3896	8590
SE25T	1331	52.4	786	31.0	6624	14604	4356	9604
SE25T	1430	56.3	786	31.0	6598	14545	4330	9545

Drive Axle Weight

Model	Wheelbase		Battery Compartment Height		Drive Axle (Loaded)		Drive Axle (Unloaded)	
	mm	*in*	*mm*	*in*	*kg*	*lb*	*kg*	*lb*
SE15T	1188	46.8	655	25.8	4300	9480	1745	3847
SE15T	1188	46.8	786	31.0	4324	9533	1768	3898
SE15T	1331	52.4	655	25.8	4200	9259	1773	3909
SE15T	1331	52.4	786	31.0	4399	9698	1972	4348
SE17T	1331	52.4	655	25.8	4600	10141	1768	3898
SE17T	1430	56.3	655	25.8	4613	10170	1868	4118
SE20T	1331	52.4	786	31.0	5202	11468	1966	4334
SE20T	1430	56.3	655	25.8	5005	11034	1868	4118
SE20T	1430	56.3	786	31.0	5108	11261	1971	4345
SE25T	1331	52.4	786	31.0	6002	13232	1956	4312
SE25T	1430	56.3	786	31.0	5876	12954	1954	4308

Battery Weight

Model	Wheelbase		Battery Compartment Height		Minimum Battery Weight	
	mm	*in*	*mm*	*in*	*kg*	*lb*
SE15T	1188	46.8	655	25.8	669	1475
SE15T	1188	46.8	786	31.0	748	1650
SE15T	1331	52.4	655	25.8	703	1550
SE15T	1331	52.4	786	31.0	1175	2590
SE17T	1331	52.4	655	25.8	703	1550
SE17T	1430	56.3	655	25.8	930	2050
SE20T	1331	52.4	786	31.0	1175	2590
SE20T	1430	56.3	655	25.8	930	2050
SE20T	1430	56.3	786	31.0	1134	2500
SE25T	1331	52.4	786	31.0	1175	2590
SE25T	1430	56.3	786	31.0	1134	2500

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IMPORTANT!
The **maximum operating grades** shown below are based on lift trucks equipped with a standard upright (STD) with a maximum fork height (MFH) of 3080 mm (121 in), standard forks, and a minimum weight battery.

Operating Grade

Model	Wheelbase		Battery Compartment Height		Maximum Operating Grade (Loaded)		Maximum Operating Grade (Unloaded)	
	mm	*in*	*mm*	*in*	*%*	*deg*	*%*	*deg*
SE15T	1188	46.8	655	25.8	34.3	18.9	27.8	15.5
SE15T	1188	46.8	786	31.0	34.2	18.8	27.9	15.6
SE15T	1331	52.4	655	25.8	36.3	19.9	27.8	15.5
SE15T	1331	52.4	786	31.0	33.3	18.4	30.1	16.7
SE17T	1331	52.4	655	25.8	33.0	18.2	26.5	14.8
SE17T	1430	56.3	655	25.8	31.7	17.5	28.5	15.9
SE20T	1331	52.4	786	31.0	28.1	15.7	27.3	15.2
SE20T	1430	56.3	655	25.8	28.9	16.1	26.5	14.8
SE20T	1430	56.3	786	31.0	28.2	15.7	27.6	15.4
SE25T	1331	52.4	786	31.0	23.4	13.1	23.4	13.1
SE25T	1430	56.3	786	31.0	24.0	13.5	24.0	13.5

Battery Compartment

Short Battery Compartment				
Model	Wheelbase		W x L x H	
	mm	*in*	*mm*	*in*
SE15T	1188	46.8	996 x 400 x 655	39.2 x 15.7 x 25.8
SE15-17T	1331	52.4	996 x 545 x 655	39.2 x 21.4 x 25.8
SE17-20T	1430	56.3	996 x 645 x 655	39.2 x 25.4 x 25.8
Tall Battery Compartment				
Model	Wheelbase		W x L x H	
	mm	*in*	*mm*	*in*
SE15T	1188	46.8	996 x 367 x 786	39.2 x 14.4 x 31.0
SE15-25T	1331	52.4	996 x 545 x 786	39.2 x 21.4 x 31.0
SE17-25T	1430	56.3	996 x 645 x 786	39.2 x 25.4 x 31.0

Wheels and Tires

Cushion (rubber)		
Model	**Drive Tire Size**	**Dual Steer Tire Size**
SE15T	18x7x12.125	15x5x11.25
SE17-20T	18x8x12.125	15x5x11.25
SE25T	18x9x12.125	15x5x11.25
Cushion (polyurethane)		
Model	**Drive Tire Size**	**Dual Steer Tire Size**
SE15-20T	18x6x12.125	15x5x11.25
SE25T	18x7x12.125	15x5x11.25
Cushion (wide drive)		
Model	**Drive Tire Size**	**Dual Steer Tire Size**
SE15-20T	18x9x12.125	15x5x11.25
Solid Pneumatic		
Model	**Drive Tire Size**	**Dual Steer Tire Size**
SE15T	18x7–8	140x55–9
SE17-20T	200x50–10	140x55–9

Recommended Lubricants

Type	Part Number	Specification	Component
CLARK Innerslide Lubricant	886396		Upright rails
CLARK Chain & Cable Lubricant	886399		Lift chains
NLGI #2 EP General Purpose Grease	VV608	CLARK MS-107C	Upright and carriage rollers, tilt cylinder ends, upright mounting pins, hood hinges

Recommended Fluids

	Drive Axles	Steer Axle	Hydraulic Tank	
Type	SAE 80W-90		AW ISO 32	AW HVI ISO 32
Capacity	0.4 L (0.43 qt)[1]	1.3 L (1.38 qt)	18.9 L (5.0 gal)	
Temperature	All		Normal	Cold Storage
Specification	API GL-5		CLARK MS-68	
Part Number	1808014		1802155	VV70202

[1]Capacity is per drive axle.

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