



BT Prime-Mover

PMX/QMX

● Operator's Manuals

302264-000 1993_November
302264-000 1994_January
302264-000 1994_March
302264-001 1994_June
302264-002 1995_June
302264-002 1995_December
302264-003 1996_February
302264-003 1997_April
302264-003 1997_December
302264-003 1998_June
302264-003 1998_October
302264-003 2000_May



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OPERATING PRACTICES

OPERATOR TRAINING



An effective operator training program should center around user company's policies, operating conditions and trucks. The program should be presented completely to all new operators and not condensed for those claiming previous experience.

OPERATOR RESPONSIBILITY

Powered industrial truck operators shall abide by the following rules and practices.

1. Avoid loose clothing, particularly cuffs and scarves.
2. Know what safety equipment is required on this truck and use it. A hard hat, safety glasses, reflector-type vest, respirators, and ear plugs are some of the types of equipment you may need.
3. **DO NOT** rush.
4. Know the hand signals used on this job and who has responsibility for signaling.
5. Safeguard the pedestrians at all times. **DO NOT** drive a truck up to anyone standing in front of a bench or other fixed object.
6. **PASSENGERS MUST NOT** be permitted to ride.
7. When operator is away from truck, the load-engaging means shall be fully lowered, controls neutralized and brake set to prevent movement.

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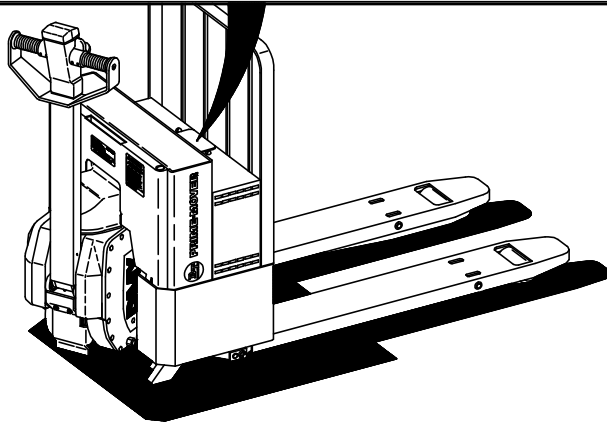
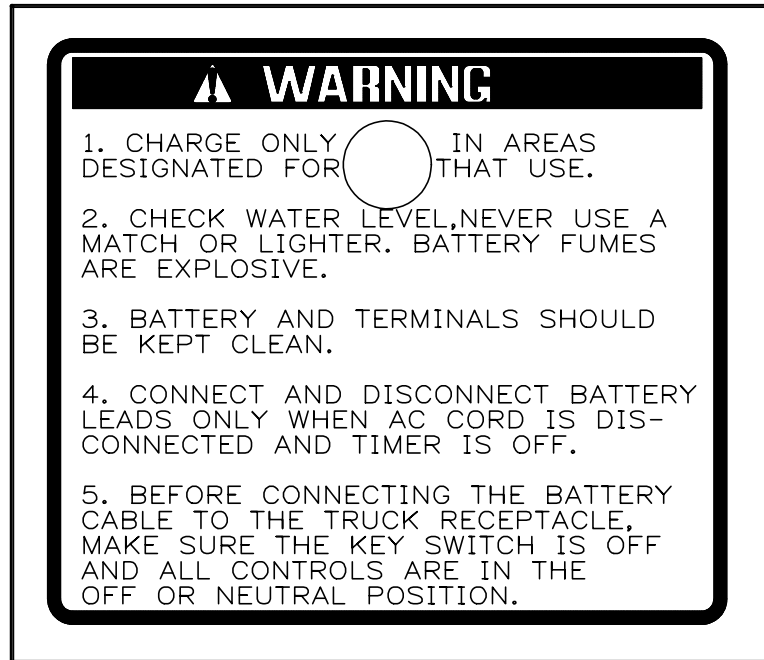
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DATA PLATE AND DECALS

BATTERY PACK WARNINGS

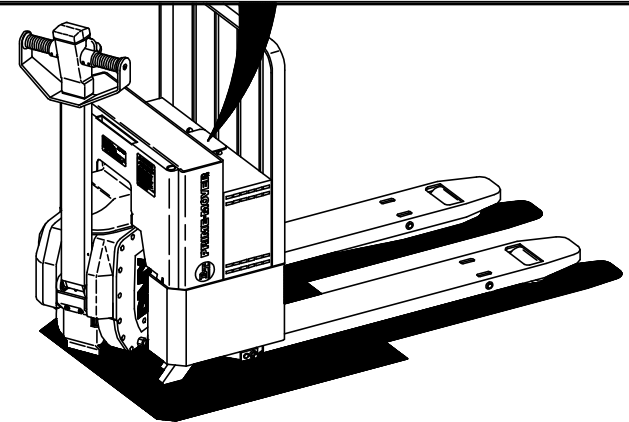
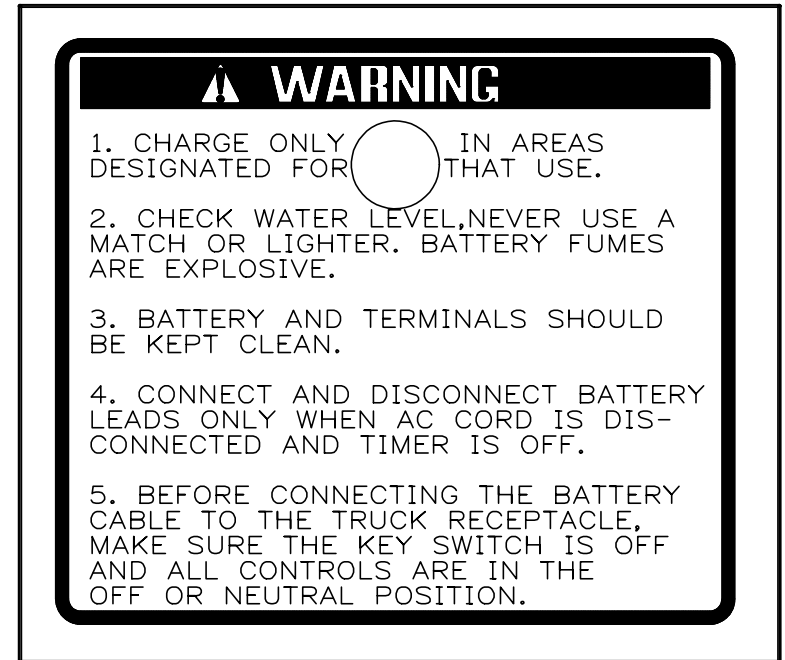
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OPERATION


STOPPING UNIT

1. Twist direction control grip to the "**NEUTRAL**" position.
2. Raise steering control handle fully to stop unit's movement.
3. Push down on lower control button to lower forks to floor.
4. Turn key switch to "**OFF**" position and remove key,
5. Make sure that all motion has stopped and remove key.

FIRST TIME OPERATION

 **WARNING** Be sure that the area being used for test running is clear of spectators and obstructions. Operate unit with empty forks.

Smoothest and most efficient unit operation is achieved while being operated at half speed to full speed. Only attempt full speed after familiarizing yourself with steering and directional controls.

 **WARNING** Operation of full speed should only be attempted after complete familiarity with all operations. **ALWAYS** exercise caution and good judgement while running this equipment.

NOTE: To prolong component life, avoid "jackrabbit" starts, stops, and forceful steering control movements.

If the battery was disconnected and removed, first turn key switch to the **OFF** position. Reinstall battery and reconnect battery connector to unit.

BRAKING - STOPPING MOTION


When the direction control lever is moved to "**NEUTRAL**" position, all **POWERED** movement is stopped. To stop all movement, gradually and deliberately move steering control handle to one of two positions, fully raised or fully lowered.

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SERVICE INTERVALS

100 HOURS OR MONTHLY

1. Check condition of battery charge.
2. Visually inspect for leaks, loose, missing, or damaged parts.
3. Check all operating functions and adjustments.
4. Check hydraulic fluid level.
5. Check transmission oil level.
6. Lubricate all grease fittings.
7. Inspect power cables and control wiring.
8. Clean with compressed air.
9. Inspect contactor tips.

500 HOURS OR SEMI-ANNUALLY

1. Clean battery and machine.

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2. Drain, flush, and refill hydraulic reservoir.
3. Inspect motor brushes.

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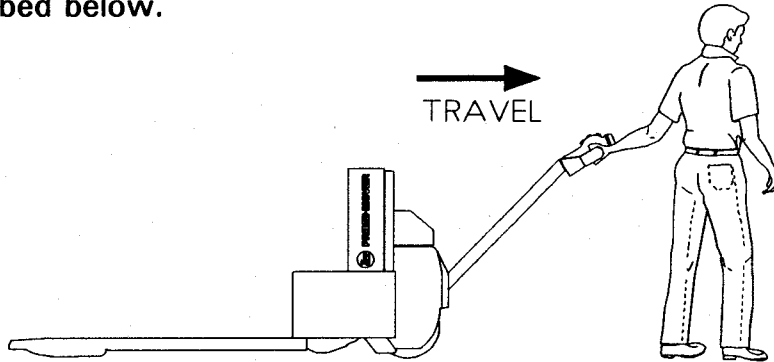
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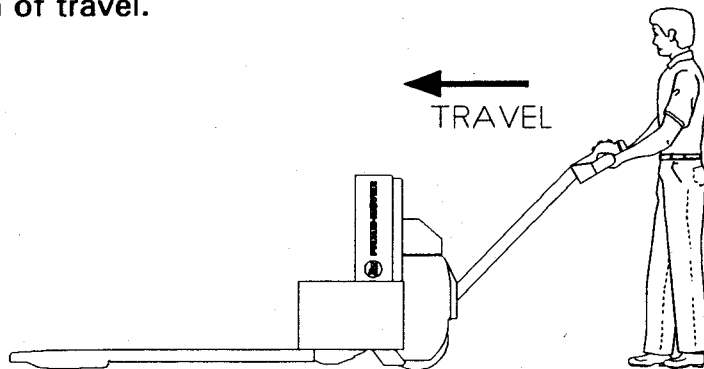
OPERATOR

There are certain hazards that cannot be avoided solely by mechanical means in the everyday use of material handling trucks. Only the intelligence, good sense and care of the operator, along with proper maintenance, will assure that the trucks are operated properly. It is important to have trained, reliable personnel operating your units. If at any time the operator finds that the unit is not performing properly, he should discontinue operation of the truck and report the condition to his supervisor for correction.

The proper operator position for this truck is shown and described below.



Travel with forks trailing when possible. Steering the truck is easier with the forks trailing. Walk ahead of the truck and lead it from either side of the control handle, operating the speed/direction control with one hand. Always look in the direction of travel.

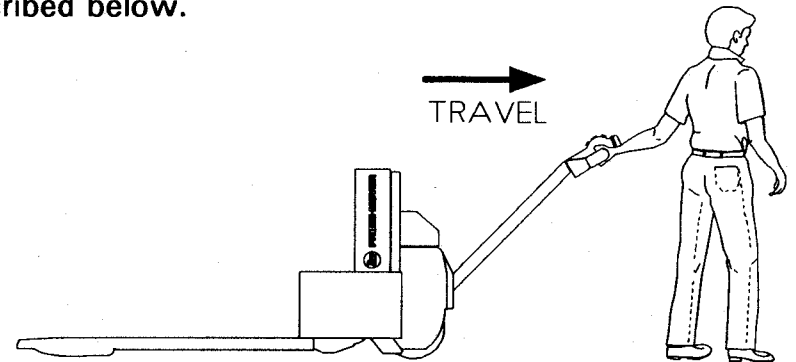


When forks are first to enter a confined area or elevator or on an incline, keep both hands on control handle. Keep both hands within the handle guard and always look in the direction of travel.

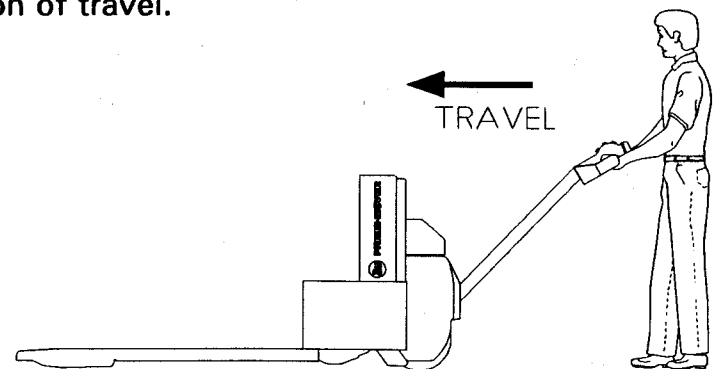
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CONTROLS AND EQUIPMENT

Guards and shields have been provided on unit for your protection.

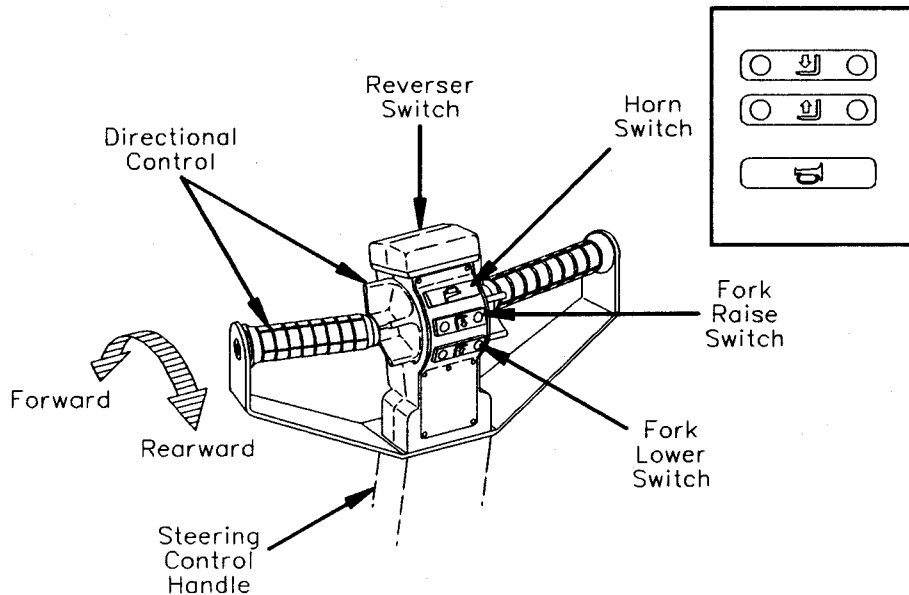
▲WARNING DO NOT operate this equipment unless all factory installed guards and shields are properly secured in place.

Decals are also provided to warn of potential danger as well as to display special operating procedures.

▲WARNING Read and observe all warnings on this unit before operating it.

THE CONTROL HANDLE

The control handle is used to provide brake, direction, speed lift/lower, horn and reverser control of the machine.



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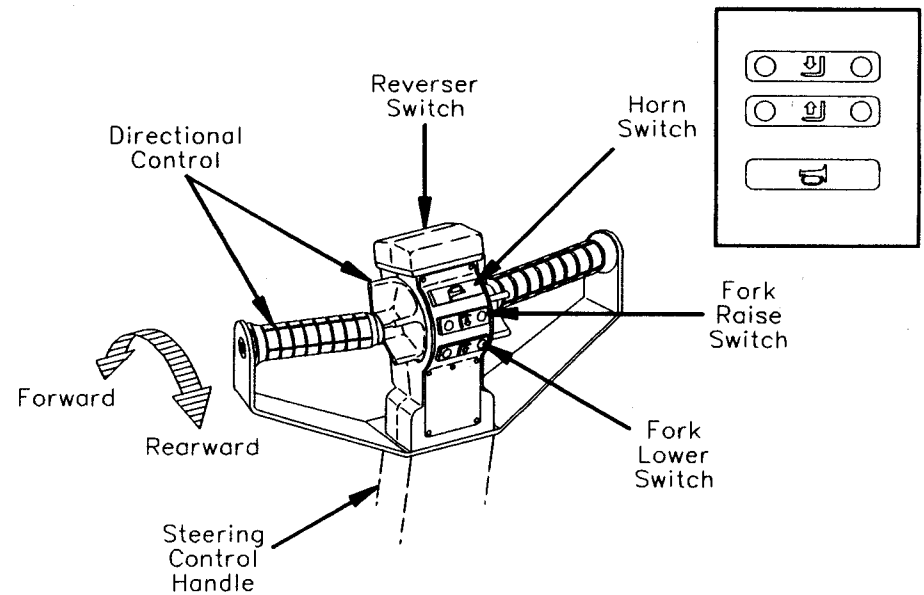
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BATTERY RETAINMENT/CARE

Make sure that battery pack wrapper is bolted in place before operating unit.



ADDING WATER

On a routine basis after every 50 hours of operation, remove the Battery Vent Caps and inspect the Electrolyte level. The water in the Electrolyte Solution evaporates at high temperatures or with excessive charging rates. The level should be to the bottom of the Filler Neck, if **NOT**, replenish to the proper level with distilled water.

CLEANING TERMINALS & CABLE CONNECTIONS

The top of the Battery **MUST BE KEPT CLEAN**. Tighten the Vent Caps and clean the Battery with a brush dipped in an alkaline solution (ammonia or baking soda and water). After the foaming has stopped, flush top of Battery with clear water. If Terminals and Cable clamps are corroded, disconnect the Cables and clean them with the same alkaline solution.

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IMPORTANT NOTICE

This is the industry's "**SAFETY ALERT SYMBOL**". This symbol is used to call your attention to items or operations that could be dangerous to you or other persons using this equipment. Please read these messages carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.

BEFORE OPERATING THE UNIT:

1. The operator must be instructed on safe and correct use of this unit.
2. The operator must read and understand the OPERATOR'S MANUAL for this unit.

WARNING

**BEFORE OPERATING UNIT
STUDY OPERATOR'S MANUAL SAFETY MESSAGES.
READ ALL SAFETY DECALS ON UNIT.
CLEAR THE AREA OF OTHER PERSONS.**

**LEARN AND PRACTICE USE OF
CONTROLS BEFORE OPERATING.**

IT IS YOUR RESPONSIBILITY TO UNDERSTAND AND FOLLOW MANUFACTURER'S INSTRUCTIONS ON MACHINE OPERATION AND TO OBSERVE PERTINENT LAWS AND REGULATIONS. OPERATOR MANUALS, PARTS MANUALS, AND REPAIR MANUALS MAY BE OBTAINED FROM YOUR EQUIPMENT DEALER.



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OPERATING PRACTICES



- **GRADES, RAMPS, OR INCLINES;** This unit is designed for level floor operation. If it is necessary to operate on a grade, ramp, or incline refer to ANSI B56.1 for requirements.
- Under all travel conditions this unit shall be operated at a speed that will permit it to be brought to a stop in a safe manner.
- Carry your load low so you have maximum stability while still maintaining ground clearance.
- Make start, stops, turns or direction reversals in a smooth manner so as not to shift load and/or overturn truck.
- **DO NOT** indulge in stunt driving or horseplay.
- Slow down for wet and slippery floors.
- Before driving over a dockboard or bridgeplate, be sure that it is properly secured. Drive carefully and slowly across the dockboard or bridgeplate and never exceed its rated capacity.
- Before the truck is driven into a elevator, the operator must make sure that the elevator is certificated for that particular load. When entering a elevator, the load goes first, not the driver. There must be no personnel in the elevator when the load is entering or being removed.
- Trucks shall enter confined areas with load end forward.
- Avoid running over loose objects, uneven surfaces or other obstructions on roadway surface.
- While negotiating turns, reduce speed, steer in a smooth motion. Except when maneuvering at a very low speed, turn the steering at a moderate even rate.
- Report any defect in unit noted during operation.
- Observe instruments and gauges frequently to determine if they are operating properly.

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BEFORE OPERATION INSPECTION



WARNING Before operating and attempting to operate unit review warnings and controls section of this manual. Know how to stop unit before operating.

If the truck is found to be in need of repair, or in any way unsafe, or contributes to an unsafe condition, the matter shall be reported immediately to the designated authority; and the truck shall not be operated until it has been restored to proper operating condition.

Check the complete truck daily or at the beginning of each shift.

If, during operation, the truck develops problems, the matter shall be reported immediately to the designated authority, and the truck shall not be operated until it has been restored to proper operating condition.

- Inspect unit and look for damage and leakage. If any, **DO NOT** operate unit until it is repaired.
- Inspect hydraulic system. Look for leakage around hoses, fittings, and pump.
- Inspect steering for looseness or binding and lack of lubrication.
- Inspect drive unit. Look for leakage.
- Inspect all wheels for flat spots or pieces of material missing from tires.
- Inspect the battery connectors. Check the condition of electrical cables and wiring and make a report of all worn or cracked cables.
- Make sure the **operator's manual** is in compartment and tethered to machine.
- Inspect the lift forks for cracks, breaks, bending and wear. The fork, surfaces should be level and even with each other.
- Check condition of load backrest extension (if equipped). Be sure it is correctly positioned and secured.

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BATTERY PACK DECALS

BATTERY PACK INSTRUCTIONS FOR 12 AND 24 VOLT UNITS

The **BATTERY PACK INSTRUCTION** decal is located directly in front of the battery pack once the battery pack wrapper has been removed. This decal describes specific gravity, charging time, percentage of charge, and a cable routing when needed. Only one of the decals are on a unit. Carefully read the decal and make sure you understand the tables and charts of instructions.

Knowing the information and specifications of the battery will help your dealer service technician to make repairs much faster.

For further information and specifications of on the battery review the section on battery at the end of this manual.

If you are in need of further information about battery pack/charger or any other part of this unit, contact your **BT PRIME-MOVER DEALER**.

12 VOLT

24 VOLT

SPECIFIC GRAVITY	CHARGING TIME	% OF CHARGE
1.250	3	75%
1.240	4	
1.230	5	
1.220	6	
1.210	7	50%
1.200	8	
1.190	9	
1.180	10	
1.170	11	25%
1.160	12	

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PRELIMINARY SERVICE

Examine your BT Prime-Mover unit carefully to determine whether or not it has been damaged in shipment. Any damage should be immediately reported to the transportation company.

⚠ WARNING Shipping damage could affect the safety of operation of the unit, it should not be operated until the damage has been repaired and any damage parts replaced.

The new unit should be checked out by a **QUALIFIED TECHNICIAN**. An arrival and pre-delivery checklist is at the THE PRIME-MOVER DEALERSHIP this sheet is to be returned to validate warranty and to assure that the user has received a quality BT Prime-Mover product ready to do its job.

This OPERATORS MANUAL must be kept with this unit. If a replacement manual is needed, please contact your BT PRIME-MOVER dealer or THE PRIME-MOVER Co. factory and a no charge replacement will be sent.

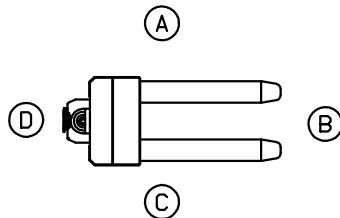
A parts manual has been provided with the machine. Additional copies are available at a small charge.

Check the transmission oil level and hydraulic oil level before operation. Check to determine that the battery is adequately charged, properly installed and connected.

RIGHT, LEFT, FRONT, AND REAR SIDES

Right and left hand, when used in this manual, indicate the right and left sides of unit as seen from operator's position.

- A. Right Side
- B. Rear
- C. Left Side
- D. Front



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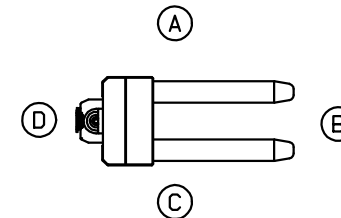
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DATA PLATE AND DECALS

WARNING DECALS

Clean or replace all safety and instruction decals that cannot be read.

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You must replace a decal if the decal is damaged, missing, or cannot be read.

If a decal is on a part that is replaced, make sure you install a new decal on the new part. See your BT Prime-Mover dealer for new decals. New warning decals can be obtained from your **BT PRIME-MOVER DEALER** at **NO** charge.

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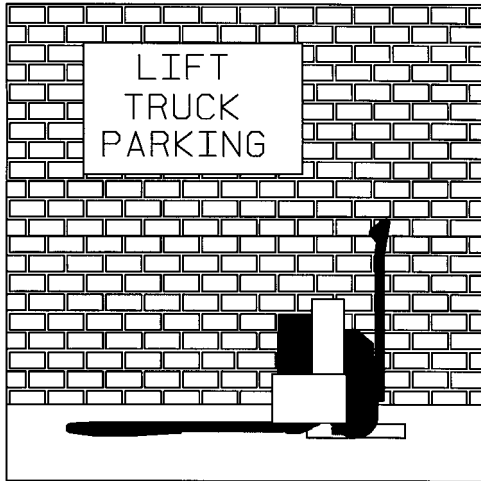
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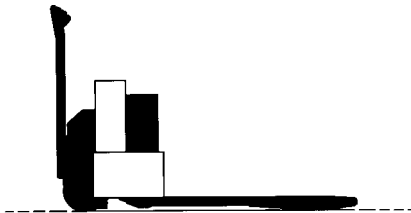
PARKING

1. Park units in designated parking areas only.

Make sure unit does not block fire aisles, fire equipment, stairways or walkways.



2. Lower forks fully.

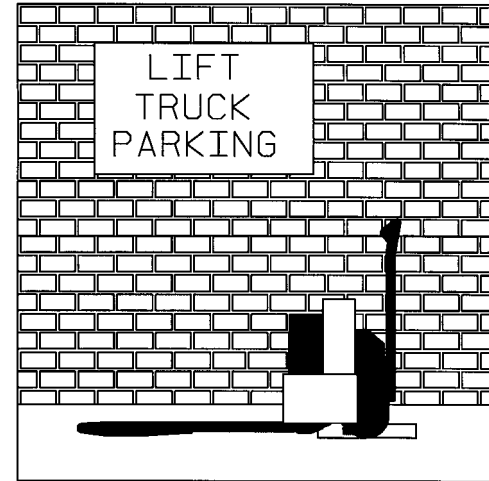


3. Turn key switch to the **OFF** position and remove key.
4. Remember to block drive wheel securely to prevent accidental roll.

PARKING

1. Park units in designated parking areas only.

Make sure unit does not block fire aisles, fire equipment, stairways or walkways.



2. Lower forks fully.



3. Turn key switch to the **OFF** position and remove key.
4. Remember to block drive wheel securely to prevent accidental roll.



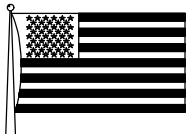
PRIME-MOVER

THE PRIME-MOVER CO.
3000 NORTH US HIGHWAY 61
MUSCATINE, IOWA 52761-5810

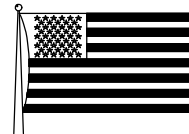


PRIME-MOVER

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PROUDLY _____
Made in **AMERICA**



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OPERATING PRACTICES

OPERATOR TRAINING



An effective operator training program should center around user company's policies, operating conditions and trucks. The program should be presented completely to all new operators and not condensed for those claiming previous experience.

OPERATOR RESPONSIBILITY

Powered industrial truck operators shall abide by the following rules and practices.

- Avoid loose clothing, particularly cuffs and scarves.
- Know what safety equipment is required on this truck and use it. A hard hat, safety glasses, reflector-type vest, respirators, and ear plugs are some of the types of equipment you may need.
- **DO NOT** rush.
- Know the hand signals used on this job and who has responsibility for signaling.
- Safeguard the pedestrians at all times. **DO NOT** drive a truck up to anyone standing in front of a bench or other fixed object.
- **PASSENGERS MUST NOT** be permitted to ride.
- When operator is away from truck, the load-engaging means shall be lowered, controls neutralized, and brake set to prevent movement.
- **DO NOT** place any part of body between moving and stationary or outside running lines of truck.
- Use caution when making a right or left turn into an aisle. Remember rear wheels do not follow turn path of front wheel. When making a turn allow for "corner-cutting" of trailers.
- Safeguard co-workers from truck operational hazards when their assistance is required to perform a task.
- **ALWAYS LOOK IN DIRECTION OF TRAVEL**, especially when reversing.

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CONTROLS AND EQUIPMENT

KEY SWITCH

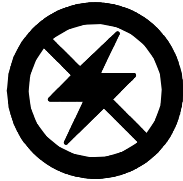
A KEY SWITCH is provided to prevent unauthorized use of this unit. The key switch is located on the control panel cover.

The key switch has two (2) positions: **OFF and ON.**

1. **OFF POSITION:** Turning the key to “**OFF**” will stop all electrical power from going to the control circuit from battery.
2. **ON POSITION:** Turn the key to “**ON**” to check function of hourmeter and battery discharge indicator. The key switch must be in this position to provide power to the control circuit when unit is operated.

EMERGENCY DISCONNECT BUTTON

The emergency disconnect button will cut off all electrical power to unit when pushed. To reset emergency disconnect button turn key switch OFF position, repair emergency, pull emergency disconnect button out. The emergency disconnect button is red in color and is physically located on dash next to key switch.



BRAKE CONTROL

The brakes are applied when steering control handle is in the fully raised or fully lowered position. Moving the steering control handle to the middle of its travel releases brake and closes a switch in control circuit that allows operation of unit. The brake and brake interlock switch should always be checked prior to any operation on unit.

When the steering control handle is moved to “**BRAKE**” position, all powered movement is stopped. To stop all movement, gradually and deliberately move the steering control handle to the “**BRAKE**” (fully raised or fully lowered) position.

CONTROLS AND EQUIPMENT

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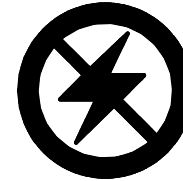
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OPERATION

STOPPING UNIT

1. Rotate direction control to the "**NEUTRAL**" position.
2. Raise steering control handle fully to stop unit's movement.
3. Push down on lower control button to lower forks to floor.
4. Make sure that all motion has stopped.
5. Turn key switch to "**OFF**" position and remove key.

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Your safety and the safety of those around you depends upon your using care and judgement in the operation of this equipment. Know the positions and functions of all controls before attempting to operate.

Read this manual completely and make sure you understand the controls. Make sure you understand, for example, the characteristics of speed, stability, brakes, and steering of this unit. If you have any questions, contact your local BT Prime-Mover dealer.

The operating rules in this manual do not replace any other rules or laws of safety that are used in your area. The operating rules listed below are not in order of importance but are all to be learned and used in your area. Make sure that your truck has correct equipment according to these rules or laws.

IMPORTANT:

Always install new decals if old decals cannot be read. When parts that have decals are replaced, make sure to install new decals with the new parts. You can get new warning decals from your BT Prime-Mover dealer at no charge.

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The lift (raising forks) is controlled by pushing down on the raise bar. The forks will continue to raise as long as the bar is depressed or until the lift stops are reached. Releasing the bar will automatically stop the lift.



LOWER SWITCH

The lower (lowering forks) is controlled by pushing down on the lower bar. The forks will continue to lower as long as the bar is depressed or until the lowering stops are reached. Releasing the bar will automatically stop the lowering.



HORN SWITCH

The horn is activated by pushing down on the horn bar located on top the steering control handle.

REVERSER SWITCH

The end of the control handle is provided with a red automatic reversing switch which causes the truck to travel in the rearward (FORK) direction when activated. Its function is to prevent the operator from being pinched between the handle and obstruction when traveling in the forward direction.

DIRECTION AND SPEED

The truck is available with either a thumb control or twist grip speed and direction control. Rotating either control in the forward or rearward direction will select the direction of travel. The truck speed will progressively increase as the control is rotated. Reversing the control can be used to quickly decrease speed or brake the truck.

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1. Rotate direction control grip to the "**NEUTRAL**" position.
2. Raise steering control handle fully to stop unit's movement.
3. Push down on lower control button to lower forks to floor.
4. Make sure that all motion has stopped .
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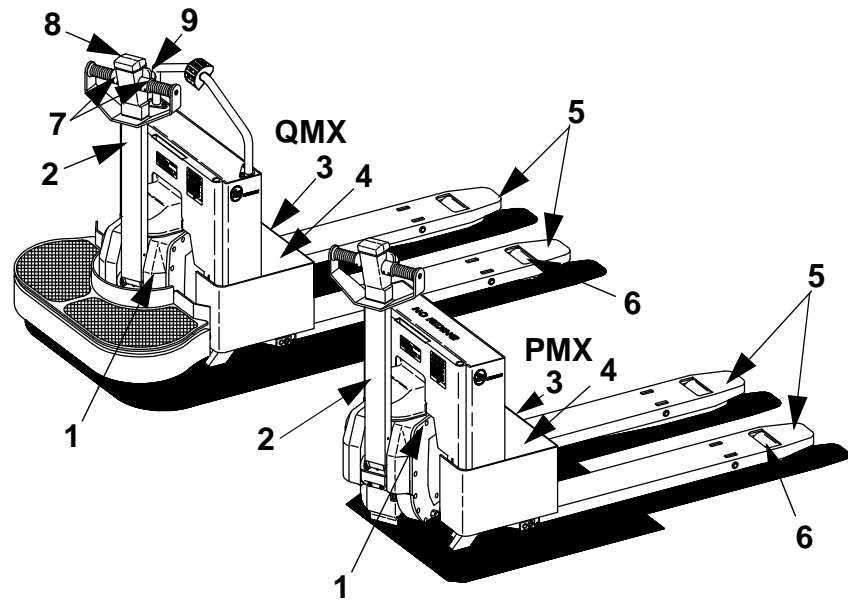
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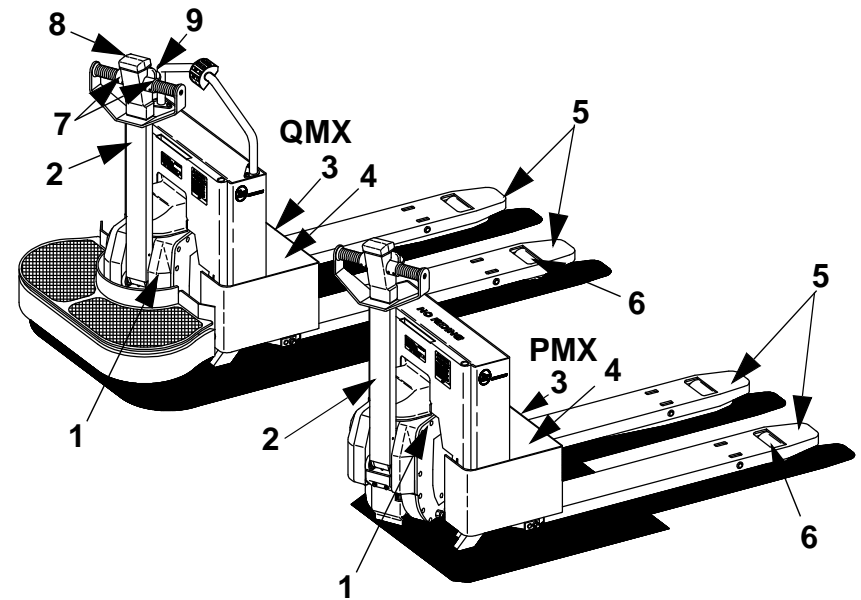
Controls and Equipment



COMPONENT IDENTIFICATION

1. Drive Unit
2. Steering Control Handle
3. Load Backrest
4. Battery Compartment
5. Forks
6. Load Wheels
7. Directional Control Lever
8. Reverser Switch
9. Lift/Lower Fork Control

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Recycling/discarding



Batteries are hazardous to the environment and should be returned to the manufacturer for recycling.

Discarding the battery

When the working life of the battery in the truck is at an end (change to a new battery) or if the entire truck is to be scrapped special regard to environmental risks shall be taken when disposing/recycling batteries.

Spent batteries shall be returned /sent to the manufacturer of the battery or its representatives (see the label on the battery) for disposal/recycling. You can also return batteries to your local BT representative who will then take care of returning the battery to the manufacturer.

Scrapping the truck

The truck consists of parts that contain recyclable metals and plastics. Below is a list of those materials used in the truck's sub-systems.

Chassis	
Chassis	Steel
Mast	Steel
Battery cover	Steel
Drive unit	Steel and cast material
Bushings	Iron/copper
Finish	Epoxy-polyester
Wheels	Polyurethane

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CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

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Safety regulations

Prohibitory symbols



NO SMOKING

If smoking occurs in situations where a restriction against smoking is stated, a serious accident can occur.



OPEN FLAMES PROHIBITED

If open flames are used in situations where open flames are prohibited, a serious accident can occur.



GENERAL PROHIBITION

If the prohibition is ignored, a serious accident can occur.

Ordinance symbols



SAFETY SHOES

When the directive for safety shoes is given, safety shoes shall always be worn to avoid personal injury.



PROTECTIVE GLASSES

When the directive for protective glasses is given, protective glasses shall always be worn to avoid personal injury.

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Maintenance instructions should be followed to prevent faults and accidents. See the chapter covering **Maintenance**. Only qualified and trained personnel are permitted to maintain, adjust, or repair the truck.

All replacement parts shall be **BT** approved spare parts.

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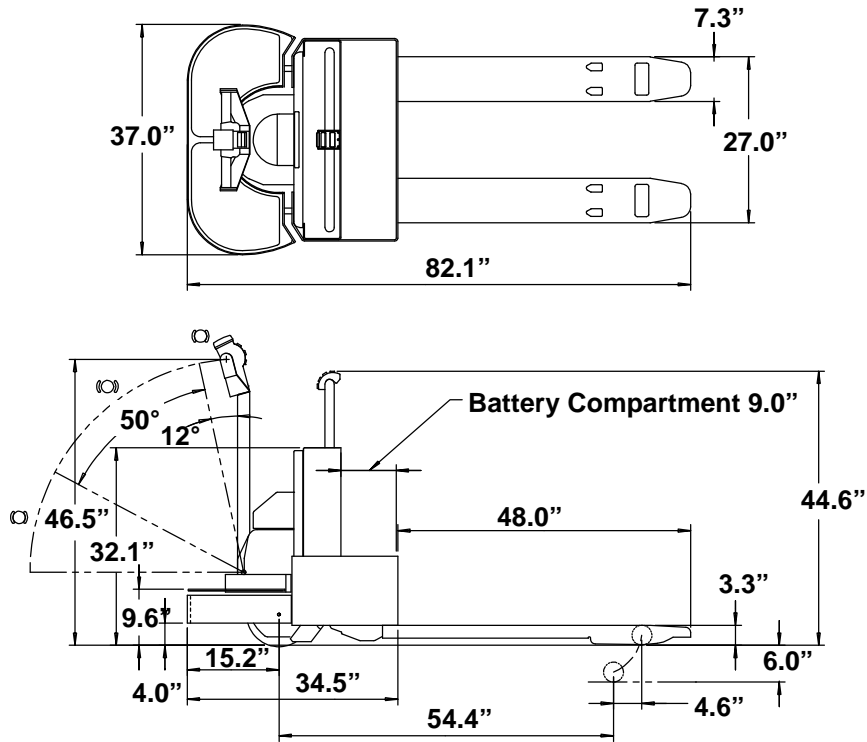
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Presentation of truck

QMX truck dimensions

The following diagram shows external dimensions for the QMX truck in its standard design.

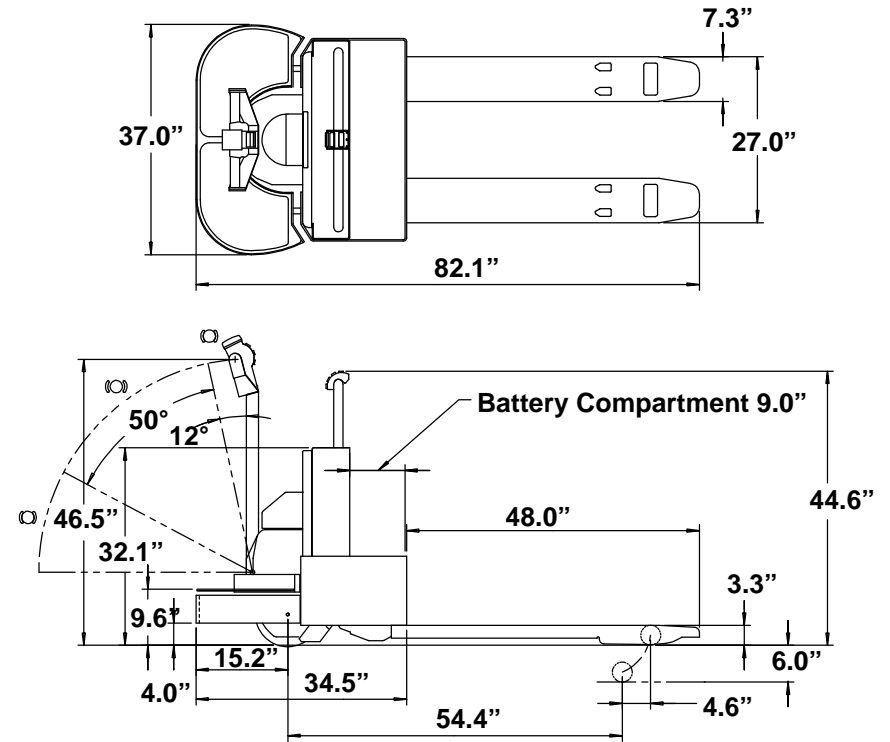


All Dimensions shown for 48" long pallet

Presentation of truck

QMX truck dimensions

The following diagram shows external dimensions for the QMX truck in its standard design.



All Dimensions shown for 48" long pallet

Controls and instruments

Braking using plugging function

- This unit is equipped with a **PLUG BRAKING FEATURE**. This method involves simply reversing the travel control to the opposite direction **without** applying the brake. This will cause the truck to come to a stop smoothly.
- As the truck comes to a full stop the operator may choose to continue holding the controls in the opposite direction and thus start the truck moving in that direction, or the operator may release the handle and allow the truck to come to a complete halt. Releasing the steering control handle will allow the parking brake to become automatically applied.

THE CONTROL HANDLE MUST NOT BE PLACED IN THE BRAKE POSITION DURING THE PLUG BRAKING OPERATION.

- When using the **plug braking** the operator may regulate, within the programmed capabilities, the severity of the **plugging** force and the stopping distance. For the lightest **plugging** force, and the longest stopping distance, the travel control should be operated only to the **creep** position in the opposite direction. For the strongest **plugging** power, and the shortest distance, the travel control should be operated to full speed in the opposite direction. Plug braking may be regulated with the control handle at any point between the **creep** position and full speed.

Controls and instruments

Braking using plugging function

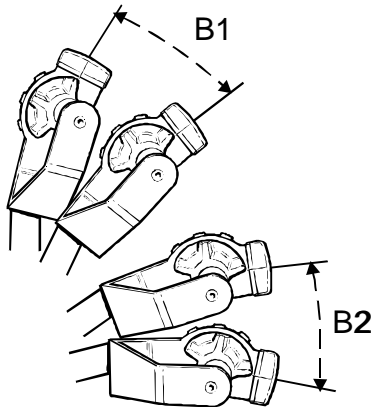
- This unit is equipped with a **PLUG BRAKING FEATURE**. This method involves simply reversing the travel control to the opposite direction **without** applying the brake. This will cause the truck to come to a stop smoothly.
- As the truck comes to a full stop the operator may choose to continue holding the controls in the opposite direction and thus start the truck moving in that direction, or the operator may release the handle and allow the truck to come to a complete halt. Releasing the steering control handle will allow the parking brake to become automatically applied.

THE CONTROL HANDLE MUST NOT BE PLACED IN THE BRAKE POSITION DURING THE PLUG BRAKING OPERATION.

- When using the **plug braking** the operator may regulate, within the programmed capabilities, the severity of the **plugging** force and the stopping distance. For the lightest **plugging** force, and the longest stopping distance, the travel control should be operated only to the **creep** position in the opposite direction. For the strongest **plugging** power, and the shortest distance, the travel control should be operated to full speed in the opposite direction. Plug braking may be regulated with the control handle at any point between the **creep** position and full speed.

Driving

Braking



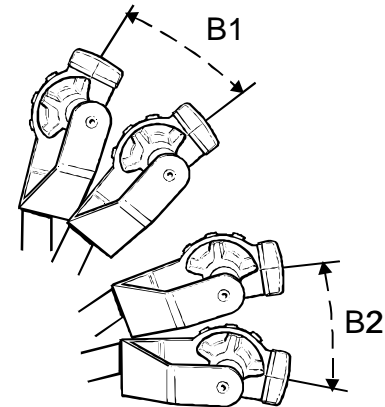
- Brake by moving the arm to the B2 position you will apply the travel brake. When you release the tiller arm it automatically returns to the parking brake position (B1).
- This unit is equipped with a **PLUG BRAKING FEATURE**. This method involves simply reversing the travel control to opposite direction **without** applying the brake. This will cause the truck to come to a stop smoothly.
- As the truck comes to a full stop the operator may choose to continue holding the controls in the opposite direction and thus start the truck moving in that direction, or the operator may release the handle and allow the truck to come to a complete halt. Releasing the steering control handle will allow the parking brake to become automatically applied.

THE CONTROL HANDLE MUST NOT BE PLACED IN THE BRAKE POSITION DURING THE “PLUG BRAKING” OPERATION.

- When using the “plug braking” the operator may regulate, within the programmed capabilities, the severity of the “plugging” force and the stopping distance. For the lightest

Driving

Braking



- Brake by moving the arm to the B2 position you will apply the travel brake. When you release the tiller arm it automatically returns to the parking brake position (B1).
- This unit is equipped with a **PLUG BRAKING FEATURE**. This method involves simply reversing the travel control to opposite direction **without** applying the brake. This will cause the truck to come to a stop smoothly.
- As the truck comes to a full stop the operator may choose to continue holding the controls in the opposite direction and thus start the truck moving in that direction, or the operator may release the handle and allow the truck to come to a complete halt. Releasing the steering control handle will allow the parking brake to become automatically applied.

THE CONTROL HANDLE MUST NOT BE PLACED IN THE BRAKE POSITION DURING THE “PLUG BRAKING” OPERATION.

- When using the “plug braking” the operator may regulate, within the programmed capabilities, the severity of the “plugging” force and the stopping distance. For the lightest

Battery

Charging the battery



General prohibition


When recharging the battery it is absolutely forbidden to smoke or use an open flame.

Use an automatic charger intended for recharging traction batteries.

The charger must have an automatic maintenance charging feature for a certain period after the main charging period has been completed. This eliminates the risk of over charging the battery and the need to monitor the charging procedure is reduced to a minimum.

The charger shall have a minimum charging current of:

Battery (Ah)	Charger (A)
300-480	50-70
480-730	80-110
730-900	130-150

 **WARNING Corrosive acid.**
The battery fluid contains sulfuric acid. Fluid spilled on skin should be rinsed OFF immediately. Wash thoroughly with soap and water.
If the fluid has come into contact with the eyes, wash the eyes immediately using an eye shower. Contact a doctor.



ALWAYS WEAR PROTECTIVE GLASSES AND PROTECTIVE GLOVES WHEN CHECKING THE BATTERY.

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ALWAYS WEAR PROTECTIVE GLASSES AND PROTECTIVE GLOVES WHEN CHECKING THE BATTERY.

Maintenance


 **WARNING** Short-circuiting/burns.
When working with the truck's electrical system short circuiting/burns can occur if a metal object comes into contact with live electrical connections.
Remove watches, rings, or other types of metal jewelry.

- Always switch **OFF** the truck's power supply before opening the covers on the drive unit or electrical systems.
- Always disconnect the battery by pulling out the battery connector when carrying out maintenance work on the truck unless otherwise stated in this publication or the **Service Manual**.
- Relieve the system pressure slowly before starting work on the truck's hydraulic systems.
- Use paper or a rigid sheet of cardboard when checking for oil leakage. **Never** use your hand.
- Bear in mind that the oil in the transmission or the hydraulic system can be **hot**.


 **WARNING** Risk of burns.
Hot transmission and hydraulic oil.
Let the truck cool before changing the oil.

- Only fill the hydraulic system with new clean oil. Oil should meet **BT** cleanliness specification 12-00-002. Contact your **BT** representative for assistance or more information.

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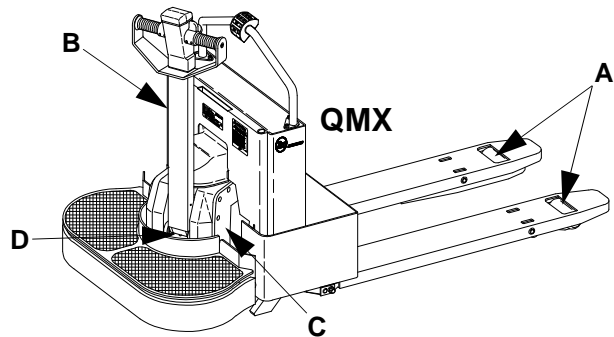
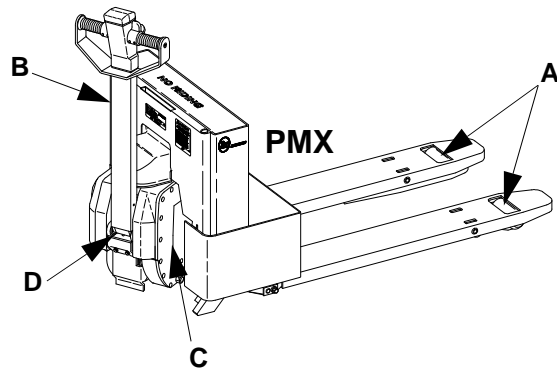
- Only fill the hydraulic system with new clean oil. Oil should meet **BT** cleanliness specification 12-00-002. Contact your **BT** representative for assistance or more information.

Maintenance

Approved Oils and Grease

Pos.	Lubricant	Specification			Application area
		> 5°F-15°C	< 5°F-15°C	<-10°F-23°C	
A	Grease	Tex. Ref. C & C #880	Tex. Ref. C & C #880	Tex. Ref. C & C #880	Bearings and bushings
B	Hydraulic oil	Sunoco TH	Sunoco TH	Texaco 15	Hydraulic system
C	Transmission oil	SAE 80W/90	SAE 75W	SAE 75W	Gears
D	Motor oil	SAE 40	SAE5W-20	SAE5W-20	Pivot

Oil should meet **BT** cleanliness specification 12-00-002. Contact your **BT** representative for assistance or for more information.



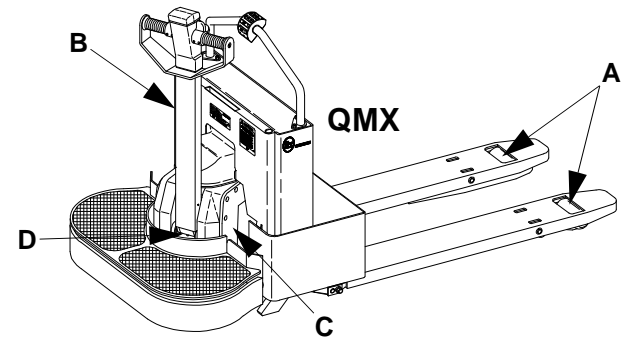
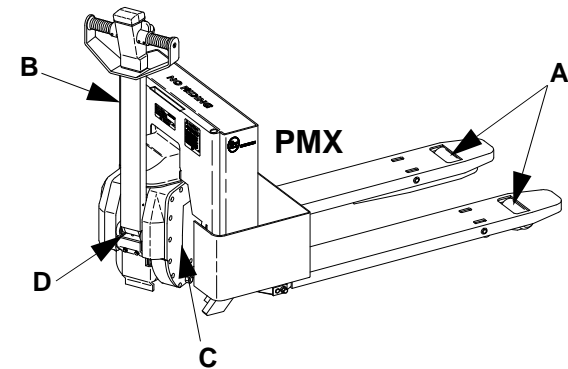
Lubrication chart location points

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C	Transmission oil	SAE 80W/90	SAE 75W	SAE 75W	Gears
D	Motor oil	SAE 40	SAE5W-20	SAE5W-20	Pivot

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Lubrication chart location points

Operator's warning



IMPORTANT NOTICE

This is the “**SAFETY ALERT SYMBOL**”. This symbol is used to call your attention to items or operations that could be dangerous to you or other persons using this equipment. Please read these messages carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this truck.

Before operating the truck:


1. The operator must be instructed on safe and correct use of this truck.
2. The operator must read and understand the **Operator's Manual** for this truck.

WARNING

**BEFORE OPERATING TRUCK
STUDY OPERATOR'S MANUAL SAFETY MESSAGES.
READ ALL SAFETY DECALS ON TRUCK.
CLEAR THE AREA OF OTHER PERSONS.**

**LEARN AND PRACTICE USE OF
CONTROLS BEFORE OPERATING.**

IT IS YOUR RESPONSIBILITY TO UNDERSTAND AND FOLLOW MANUFACTURER'S INSTRUCTIONS ON TRUCK OPERATION AND TO OBSERVE PERTINENT LAWS AND REGULATIONS. OPERATOR MANUALS, PARTS MANUALS, AND REPAIR MANUALS MAY BE OBTAINED FROM YOUR EQUIPMENT DEALER.

 **WARNING** INJURY OR DEATH TO YOU OR OTHER PERSONNEL COULD OCCUR IF YOU DO NOT FOLLOW THESE INSTRUCTIONS AND MESSAGES.

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Safety regulations

General safety regulations

Driving and conduct while driving

- Always drive the truck from the normal operator position.
- Always drive the truck in a responsible manner and with full control. Sudden starts and braking, as well as cornering at high speed, should be avoided.
- Drive at a reduced speed on inclines. Drive the truck straight up and down on inclines. It is **not** permitted to turn the truck on an incline.
- Reduce the speed if the surface is slippery to prevent the truck from sliding or overturning.
- Adapt your speed to the driving conditions, both to pedestrians and other trucks, in the working area. Reduce speed when the line of vision is limited and when pedestrians or other vehicles can be encountered.
- Pay particular attention to other personnel, as well as fixed and moving objects, within the working area and thereby avoid accidents.
- Always be prepared to stop if other personnel are in the working area.
- Keep a safe distance from all vehicles ahead.
- Always keep a safe distance from the edges of loading bays and loading ramps. Be attentive to marked risk areas.
- Sound the horn when overtaking other vehicles and when the attention of other personnel is required.

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Warning and information signs

Battery Pack Instructions

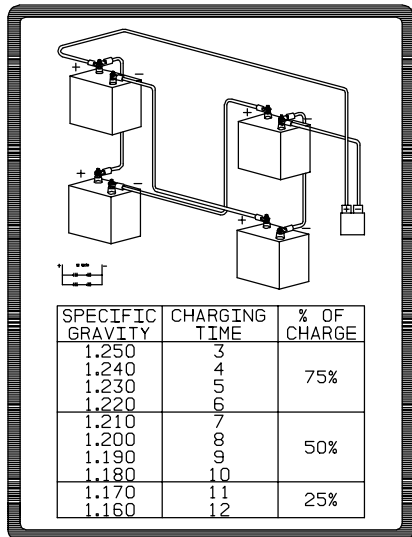
The **Battery Pack Instruction** decal is located directly in front of the battery pack once the battery pack wrapper has been removed. This decal describes specific gravity, charging time, percentage of charge, and a cable routing when needed. Only one of the decals are on a unit. Carefully read the decal and make sure you understand the tables and charts of instructions.

Knowing the information and specifications of the battery will help your dealer service technician to make repairs much faster.

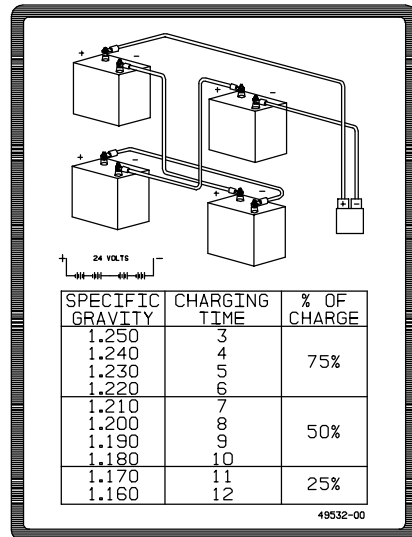
For further information and specifications of on the battery review the section on battery at the end of this manual.

If you are in need of further information about battery pack/charger or any other part of this unit, contact your **BT Dealer**.

12 Volt



24 Volt



Warning and information signs

Battery Pack Instructions

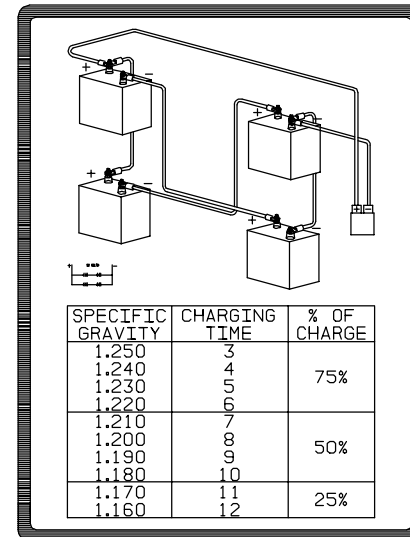
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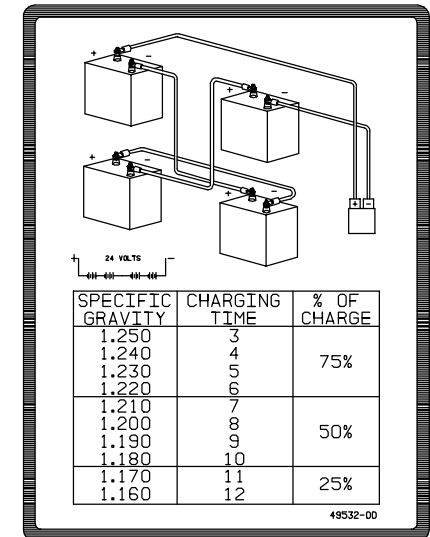
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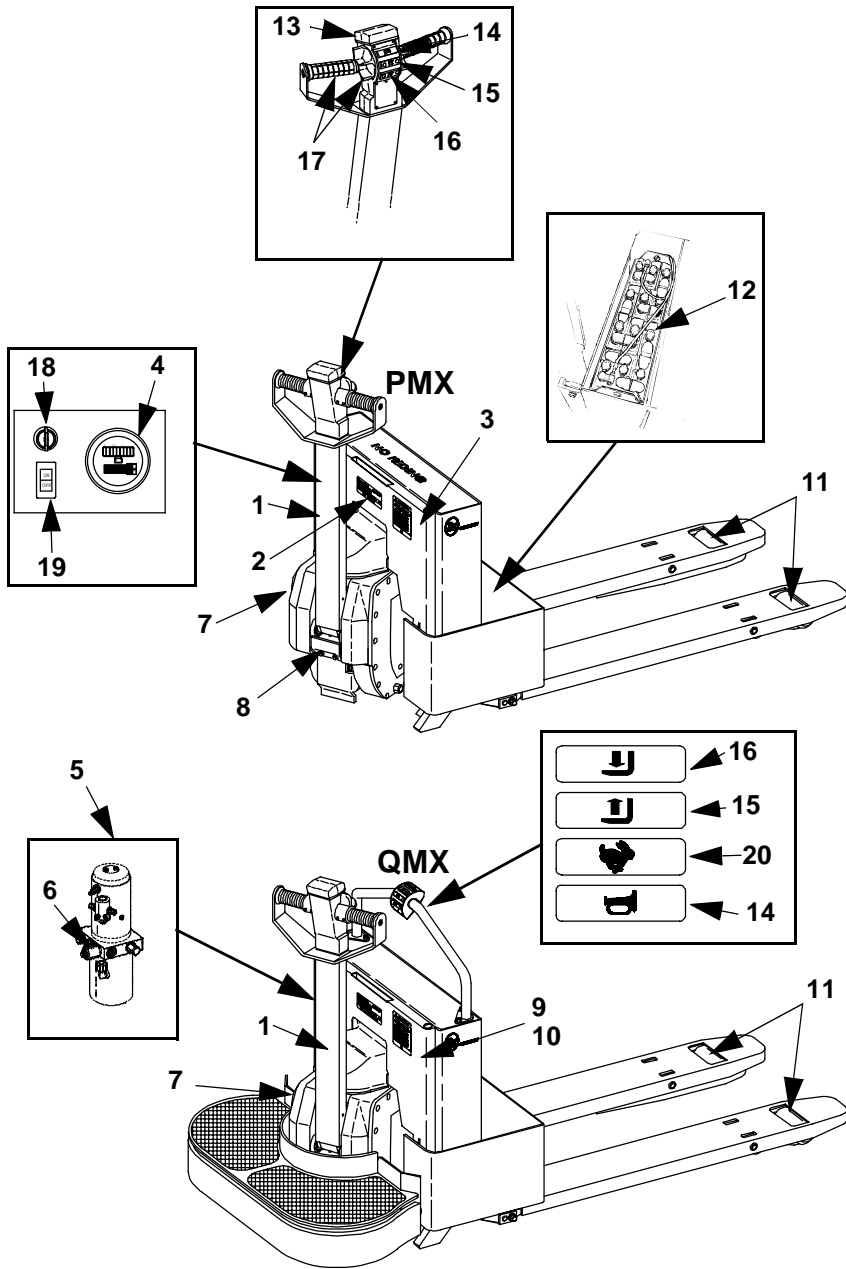
12 Volt



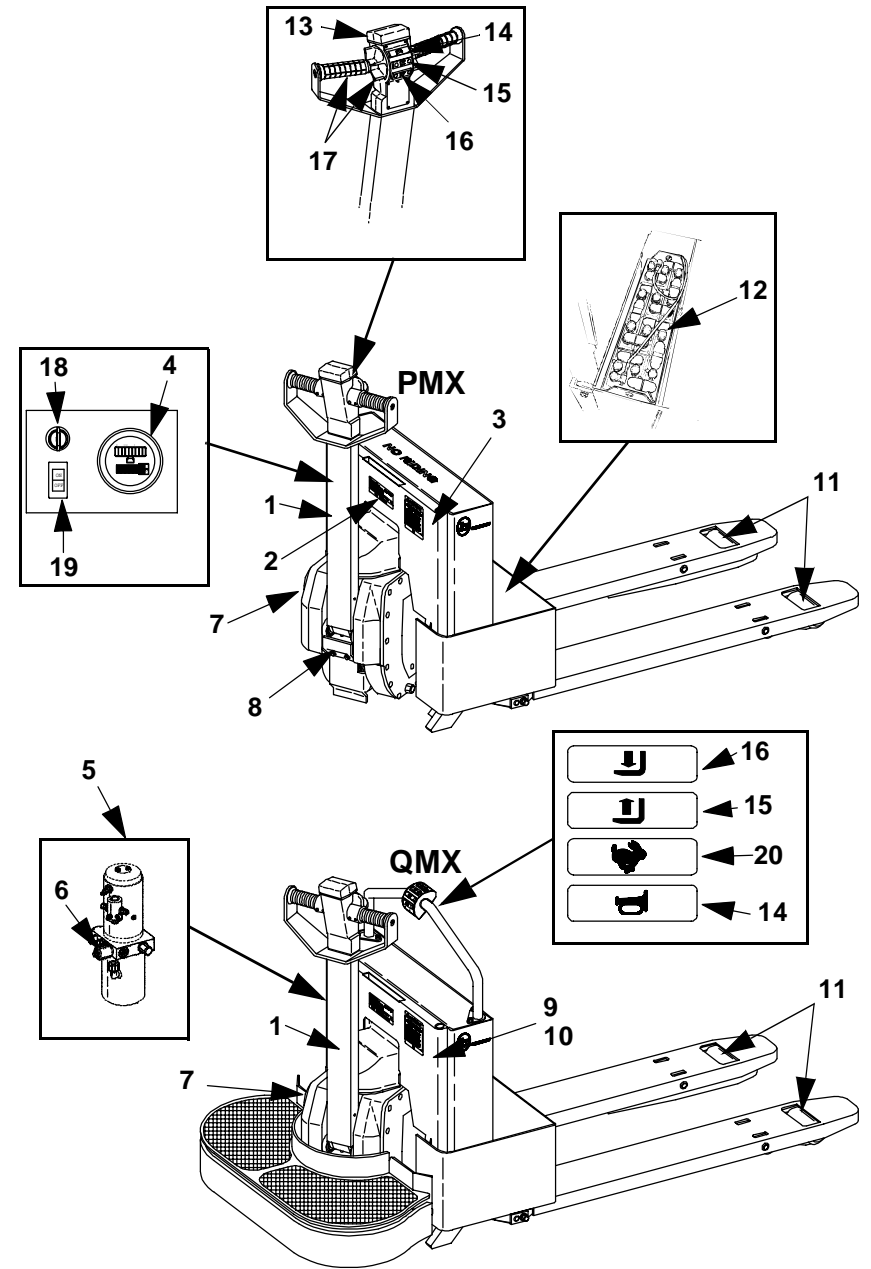
24 Volt



Presentation of main components

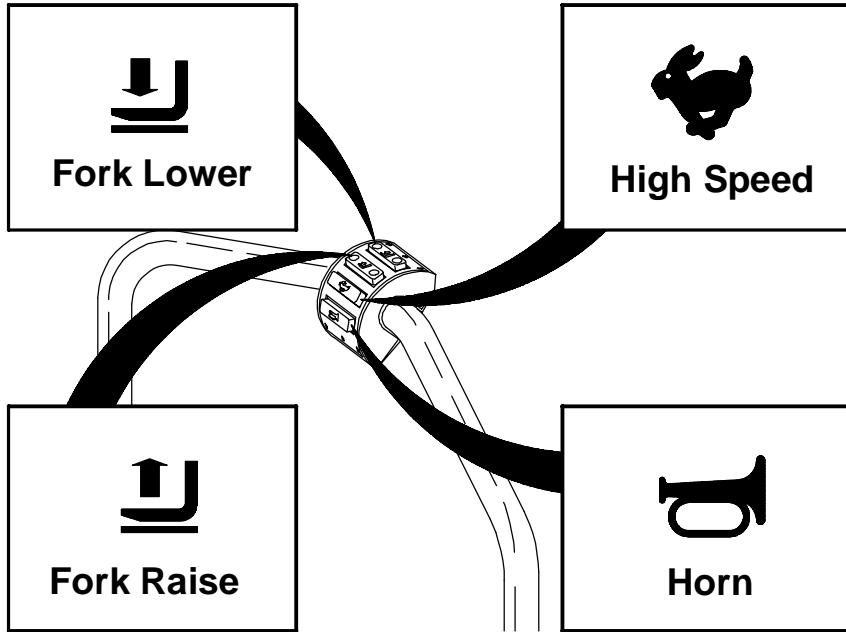


Presentation of main components



Controls and instruments

Rider handrail (QMX only)



Control for high speed control

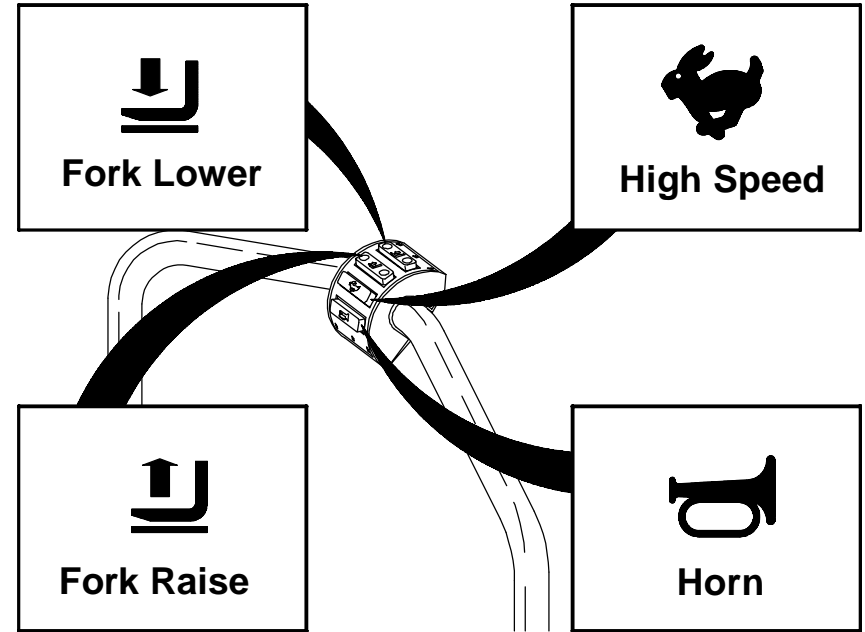
The high speed control switch is used with the rider control. The switch is located on handrail over the battery compartment. The switch is physically located third from the top of handrail. The high speed control is engaged when the steering control handle speed switch is at full and high speed control switch on handrail is pressed.

Horn

The horn switch on handrail works the same way that it dose on the steering control handle. The horn sounds as long as the button is pressed.

Controls and instruments

Rider handrail (QMX only)



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Transporting loads

NOTE!

Increased machine width.
The load can collide with fixed objects.
A truck with wide loads requires a greater operating area.

- Drive the truck with the load trailing when the load impairs the line of vision.
- If necessary, when the operator's vision is impaired, ask someone to direct operations so that transportation can take place without the risk of causing personal injury or material damage.
- **DO NOT** use the truck on grades, ramps, or inclines.
- Before the truck is driven into an elevator ensure that the elevator is approved for the overall load (the truck's weight and the load). Enter with the load first. **DO NOT** permit other personnel to be in the elevator while entering or leaving.

 **WARNING** Risk of overturning.
A loaded truck can overturn when attempting to turn on an incline.
Never turn a loaded truck on an incline.


 **WARNING** Increased braking distance.
The braking distance is increased when traveling grade.
Drive at a reduced speed, using the truck's motor brake.


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The braking distance is increased when traveling grade.
Drive at a reduced speed, using the truck's motor brake.

Battery

Each month:

- Measure the temperature in one of the center cells immediately after charging. The temperature should not exceed 122°F [50°C.]
- Measure the density of the battery fluid using an acid tester. Hold the acid tester absolutely vertical and extract sufficient fluid so that the hydrometer float moves freely.
- Adjust specific gravity with temperatures based on the chart below.

Temperature	Gravity
77°F [25.2°C]	1.280


 **WARNING** Battery manufacturing maintenance and charging procedures must be followed. Battery acid is very corrosive and must be immediately cleaned up after spillage.

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 **WARNING** Battery manufacturing maintenance and charging procedures must be followed. Battery acid is very corrosive and must be immediately cleaned up after spillage.

Maintenance

- Clean carefully using the minimum of water and detergent. **Never pressure wash** or **steam clean** in the compartments.

NOTE!


Risk of short-circuiting.
The electrical system can be damaged.
Electrical components must not be cleaned with a high pressure washing unit.

- Clean the motor compartment using a degreasing agent diluted to a suitable concentration.
- Rinse off loose grime using warm water.



Electrical components

- Blow electric motors dry using compressed air.

 **WARNING** Compressed air used for cleaning **MUST** be reduced to less than 30 psi, and then only with effective chip-guarding and personal protective equipment.

- Clean the electrical panels, electronic boards, contacts, connector, solenoid valves, etc. using a damp cloth and a cleaning agent.
- **Do not spray or pressure wash** in the compartment.

NOTE!

Risk of short-circuiting.
Electrical components can be damaged.
Do not break the warranty seal on the electronic board.

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Transporting and storing the truck

Storing the truck

Take the following action if the truck is not used for **one week** or more:

Battery

- Recharge the battery fully and carry out usual battery maintenance.
- Maintenance charge the battery every **3rd month** and check the fluid level.

Hydraulic system

- Change the oil in the hydraulic system when stored for periods longer than **1 year**. See the oil specification in the section **Maintenance and lubrication chart**.

Drive unit

- Block up the truck's drive section to take the load off the drive wheel and load wheels when storing for periods longer than **one week**.

Starting after a period of disuse

- Before the truck is put into operation after a period of disuse it should undergo a function and safety check as stated in the section **Daily service/safety checks**.
- When stored for a period **greater** than **3 months** carry out preventive maintenance as stated in the instructions **500 hours interval**.

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Safety regulations

Warning symbols

Always follow the warnings given in this Instruction Manual and on the truck to avoid accidents from occurring.

Warning levels

Warning texts are given in four levels and provide information on the risks, describe the consequences, and instruct how to avoid accidents.

DANGER

Warns that an accident will occur if you do not follow the instructions.

The consequences are serious personal injury or possibly death, and/or extremely severe material damage.

WARNING

Warns that an accident can occur if the instructions are not followed.

The consequences are serious personal injury or possibly death, and/or severe material damage.

CAUTION

Warns that an accident can occur if the instructions are not followed.

The consequences are personal injury and/or material damage.

NOTE!

Marks the risk of a crash/breakdown if the instructions are not followed.

Safety regulations

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NOTE!

Marks the risk of a crash/breakdown if the instructions are not followed.

Safety regulations

General safety regulations



- Always handle the battery and its connections with care. Read and follow the instructions for changing or recharging the battery carefully. See chapter **Battery**.
- Always wear protective glasses when working with the battery.
- Make sure the battery in the truck is of a weight that corresponds with the information on the truck's data plate.
- Make sure the battery is secured in its compartment.

Safety regulations

General safety regulations

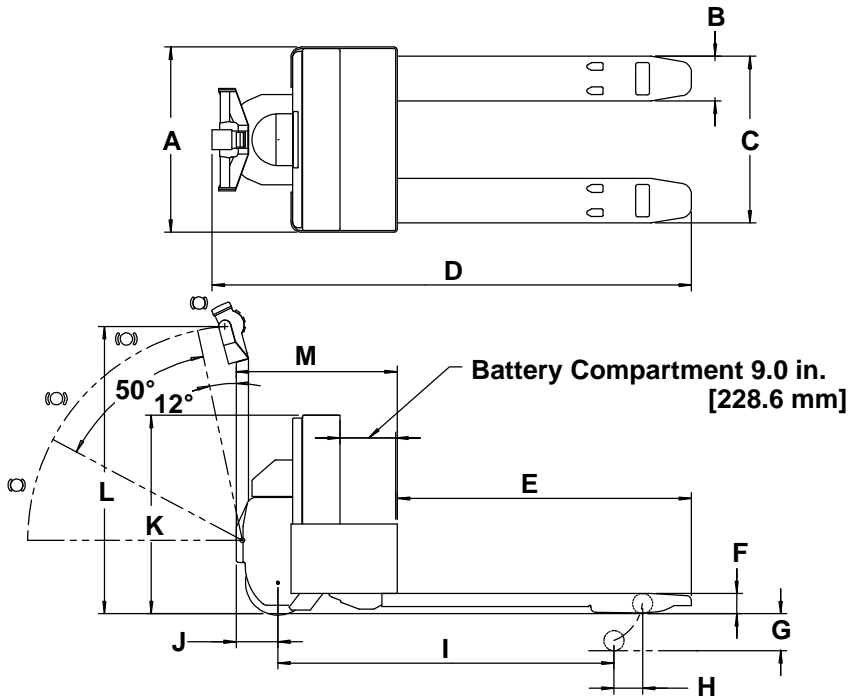


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Presentation of truck

PMX truck dimensions

The following diagrams show external dimensions for the PMX trucks in its standard design.



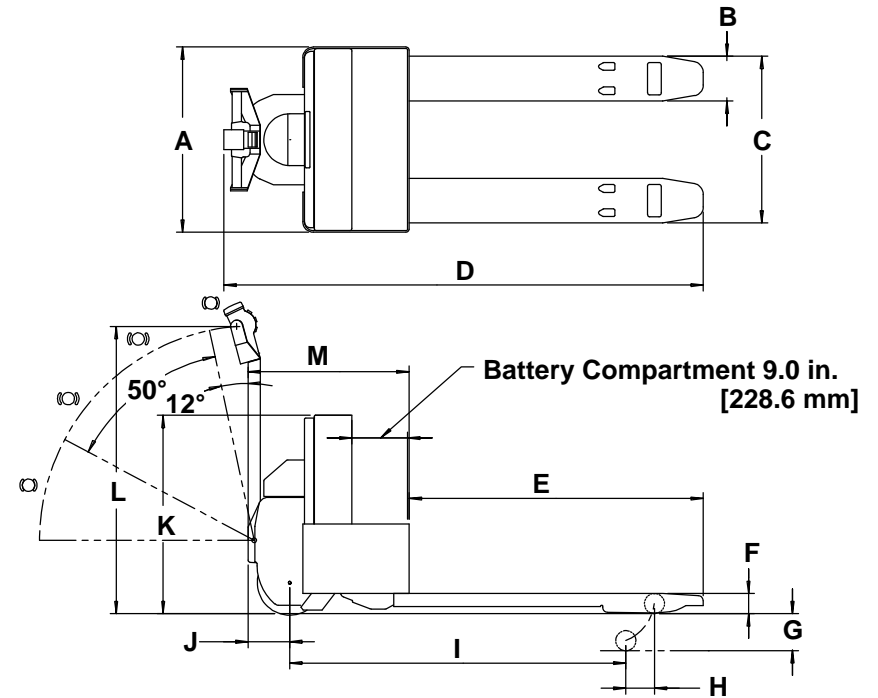
All Dimensions shown for 48 in. [1219.2 mm] long pallet

A	30 in. [762 mm]	H	4.6 in. [30 mm]
B	7.3 in. [185.4 mm]	I	54.4 in. [1381.7 mm]
C	27 in. [685.8 mm]	J	6.7 in. [170.18 mm]
D	77.6 in. [1971 mm]	K	32.1 in. [815.3 mm]
E	48 in. [1219.2 mm]	L	46.5 in. [1181.1 mm]
F	3.25 in. [82.55 mm]	M	26.1 in. [662.9 mm]
G	6 in. [152.4 mm]		

Presentation of truck

PMX truck dimensions

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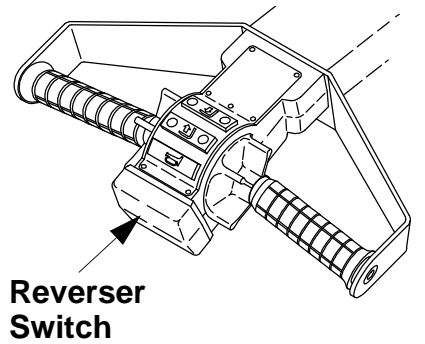


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E	48 in. [1219.2 mm]	L	46.5 in. [1181.1 mm]
F	3.25 in. [82.55 mm]	M	26.1 in. [662.9 mm]
G	6 in. [152.4 mm]		

Controls and instruments

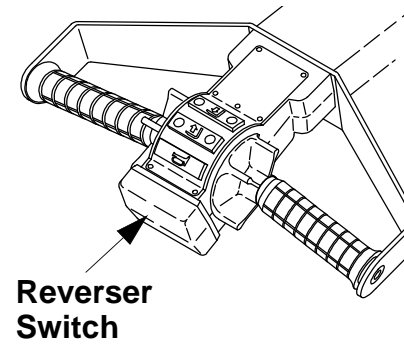
Reverser switch



The end of the control handle is equipped with a red automatic reversing switch which causes the truck to travel in the rearward direction when activated. Its function is to prevent the operator from being pinched between the handle and obstruction when traveling in the forward direction.

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Driving

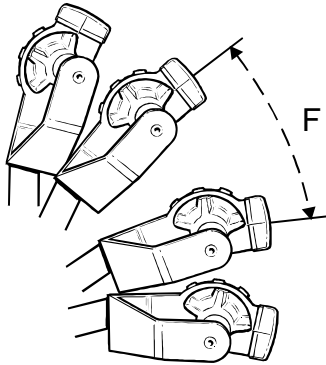
Starting the truck

- Ensure the battery connector is connected to the truck.
- Turn the key switch to position I. The instrument lighting comes on.
- Make sure the battery indicator indicates a sufficient charge level (1/2 - 1) to operate the truck.

NOTE!

Low charge level.

Prolonged operation with a low battery charge level can result in damage to the battery.
Do not drive without first recharging the battery.



- Move the control handle to the drive position (F). The parking brake is released when the control handle is moved to the drive position (F).
- Move the travel direction selector/speed control in the desired direction.

WARNING Function failure.
Safety can be jeopardized.
Always check the following safety functions before starting the day's work.

Driving

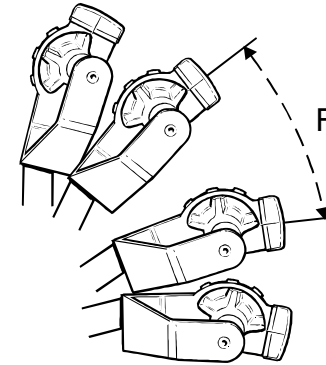
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Battery


Battery

Type of battery

- Check that the battery used in this truck is the correct voltage as shown on the truck's data plate. Use a traction battery having a weight within the minimum/maximum values stated on the data plate.

Changing the battery

- Only replace the battery with a battery of the same weight as the original. The battery weight affects the truck's stability and its braking capacity. Information on the lowest permitted battery weight can be found on the truck's data plate.

 **WARNING** Risk of moving the center of gravity. A battery weight that is too low gives impaired stability and braking capacity. The battery weight must be in accordance with the information on the truck's data plate.

When changing the battery proceed as follows:

- Park truck at battery removal station.
- Turn **OFF** key and remove.
- Push the emergency disconnect button to the **OFF** position to stop hourmeter from running.
- Disconnect the battery connector from the battery.
- Remove battery stops.

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Daily service/safety checks

Special equipment

Your truck may have been fitted with optional or special equipment that requires a routine check. To ensure safe operation consult with your supervisor and your **BT** representative about routine checks.

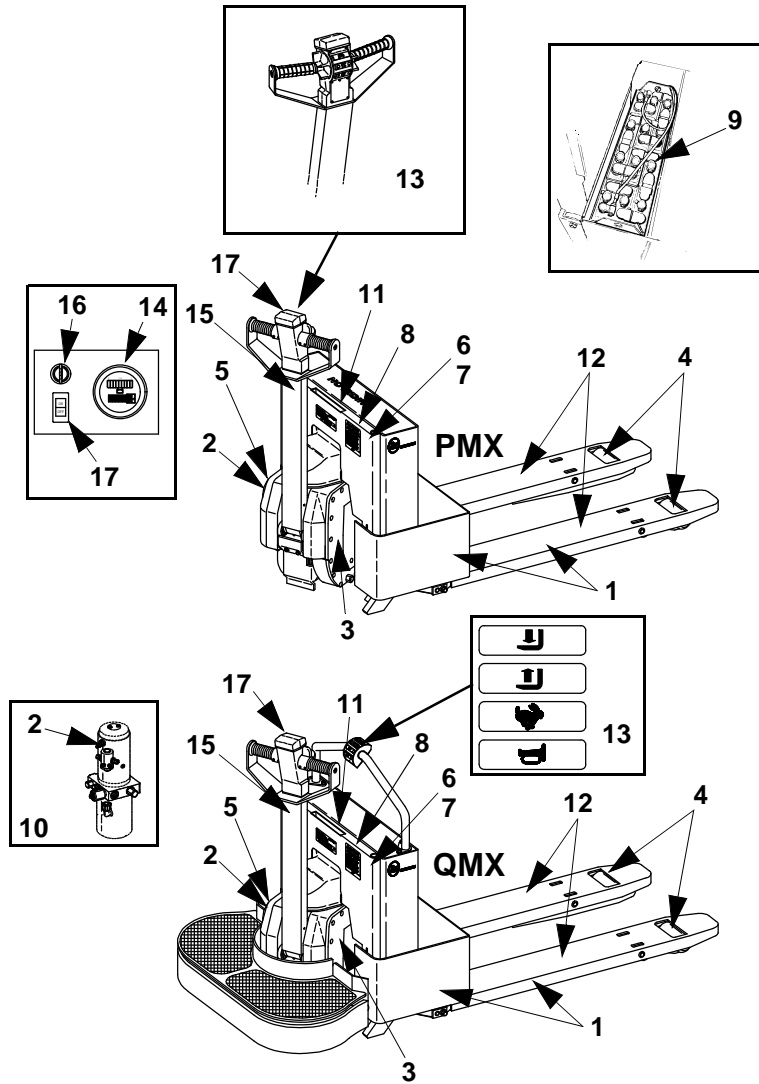
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Maintenance

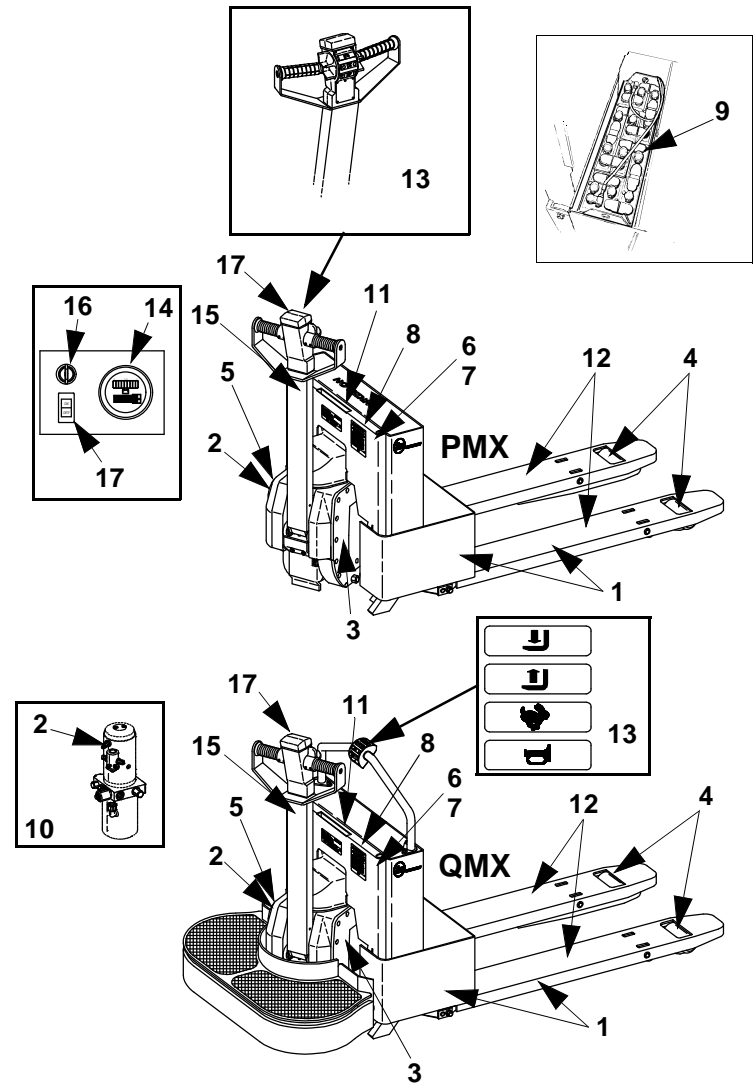
No.	Action	A	B	C	D	E	F	G
17.0	Emergency stop switch							
17.1	Check the emergency stop switch	X						



Maintenance chart

Maintenance

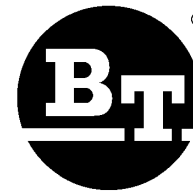
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Maintenance chart



BT Prime-Mover, Inc., 3305 N. Highway 38
Muscatine, Iowa 52761-8800 U.S.A
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Safety regulations

General safety regulations

Operator's responsibility

- The truck shall only be driven by personnel that have been specially trained and that have permission to drive the truck.
- The truck shall only be driven with care, good judgement, and in a responsible manner.
- Each country (state) has its own safety regulations. It is the operator's obligation to know and follow these. This also applies to local regulations and for different types of handling. If the recommendations in this manual deviate from your country's (state), the local safety regulations should be followed.
- The truck should be insured in accordance with local directives and laws where the truck is used.
- Any accidents or near accidents (incidents) must be reported to your supervisor.
- Local regulations regarding personal safety equipment shall be followed.
- The truck should not be driven with oily hands or oily shoes due to the risk of slipping.
- **DO NOT** place any part of body between moving and stationary objects.

Safety regulations

General safety regulations

Operator's responsibility

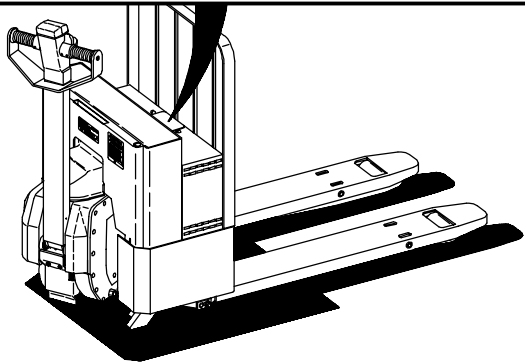
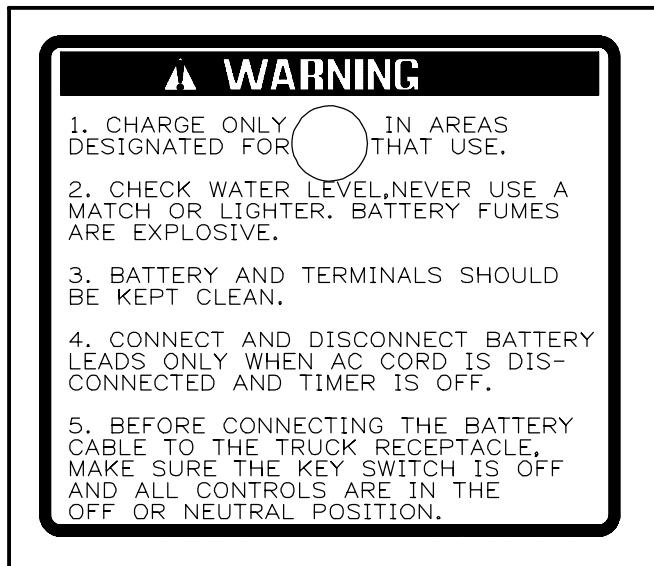
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Warning and information signs

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Battery Pack Warnings

The **Battery Pack Warnings** decal is located directly under the battery charger access door. This decal describes basic warnings for safe operation of charger and batteries. Carefully read the decal and make sure you understand the warning instructions.

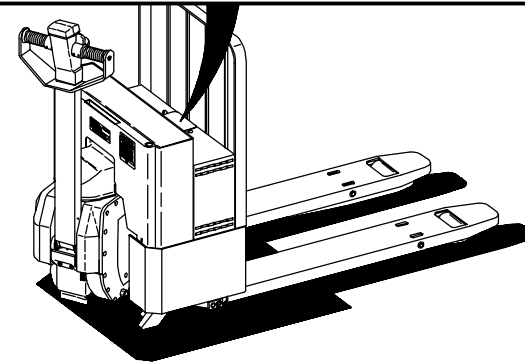
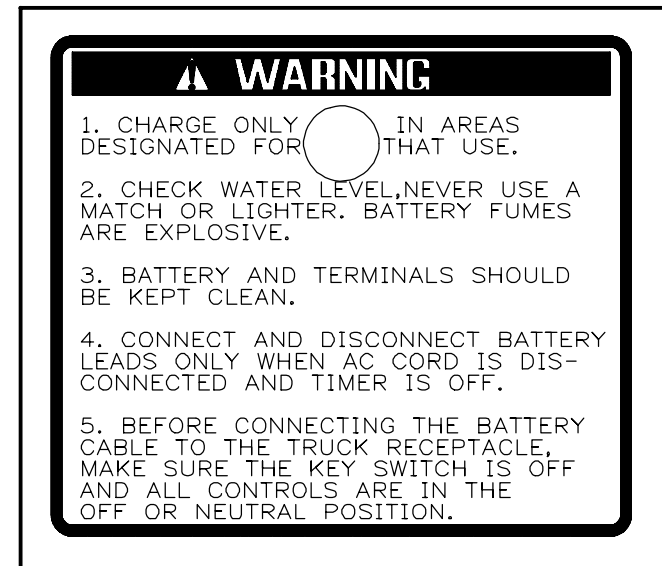


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Presentation of main components

Presentation of main components

1. Steering control handle

The truck is to be controlled by the operator with 180 degree steering angle.

The brake is applied in the upper and lower position of the steering control handle.

2. Data plate

Contains type designation, serial number, service weight, battery weight, rated lifting capacity, battery voltage, and manufacturer.

3. Cover

Removable to provide good accessibility when servicing.

4. Gauge

Combined hourmeter/battery indicator, hourmeter/battery indicator with lift cutout, or hourmeter only.

5. Hydraulic unit

Pump motor, pump, electric valves and oil tank integrated in a compact unit.

6. Hydraulic electric solenoid valve

For controlling lifting and lowering function with electric solenoid valve.

7. Drive unit with brake

Fixed drive unit with a spring applied brake, drive motor, gear box and drive wheel combined into a compact unit. The steering bearings are at the top of the drive unit.

8. Steering pivot point

Lubricate pivot point to prevent stiff steering.

9. Electric panel

12 volt or 24 volt electrical system. Vehicle speed is regulated by means of a transistor controller.

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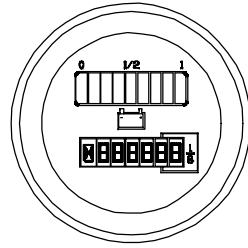
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Controls and instruments

BDI/hourmeter with travel interrupt

- 1 Fully-charged battery
- 1/2 Half-charged battery
- 0 Discharged battery

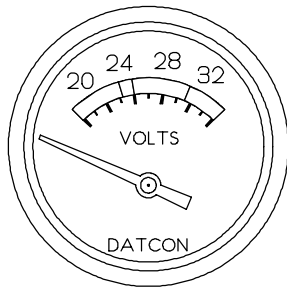


The battery indicator shows the actual charge level of the truck's battery.

The battery indicator has an integrated travel interrupt that disables the truck's travel function when a preset discharge level is reached. This prevents damage to the battery and increases the running economy of the truck. When the battery has reached a charge level equivalent to 70 percent discharge a warning signal is given by a flashing light. A further 10 percent of the battery's capacity can be used before the battery indicator interrupts the lifting function.

The hourmeter displays the time the drive motor is operating.

Battery discharge indicator (BDI)

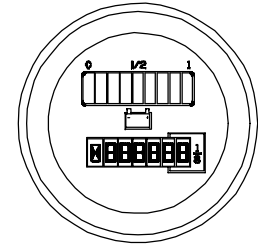


The battery discharge indicator (**BDI**) is used to indicate the degree the battery has been drained of charge. The **BDI** is to be read when unit is at rest with the key switch "ON" and with **NO** motors running.

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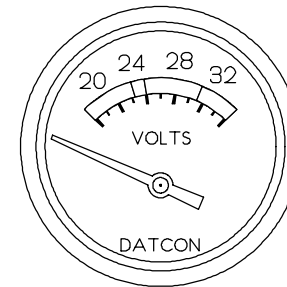


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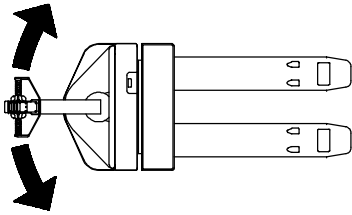
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Driving

Steering



- Steer by means of the control handle.
- If the truck gets caught against an obstacle do not use more force to steer than used when steering the truck under normal conditions. When this occurs try to free the truck by carefully driving forwards and backwards and at the same time carefully moving the control handle.

⚠ WARNING Risk of slipping.
If hands or shoes are oily there is a risk of slipping causing loss of control of truck.
Always dry hands and shoes before driving.

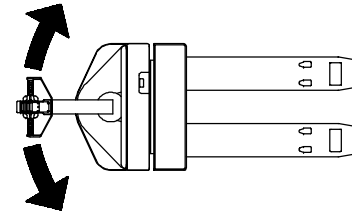
Parking the Truck

- Stop truck and disengage travel direction selector.
- Release steering control handle. The handle will automatically return to the parking brake position and brakes are applied.
- Turn key switch to the **O** position.

⚠ WARNING Unauthorized use.
Accidents can occur.
Always remove key from key switch when truck is left unattended.

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After charging

- Make sure that the ammeter indicates an insignificant or no reading and that maintenance charge lamp is **ON**, if equipped.
- Switch **OFF** the charger.
- Disconnect the battery connector from charger connector.



CAUTION

Risk of short circuiting.

The terminals can otherwise be damaged inside and result in a subsequent short circuit.

Do not pull the cables to disconnect from the charger.

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Maintenance

Maintenance that can be carried out by the driver

The **Daily service/Safety checks** as set out in the check list.

Maintenance points with intervals **1 day, 1 week, and 1 month** as set out in the **Maintenance chart** may be carried out by the driver without more knowledge than that provided by the **Operator's Manual**.

Other maintenance points as set out in the **Maintenance chart** may only be carried out by personnel who have completed maintenance training for this type of truck.

Maintenance that may be carried out by trained maintenance personnel

All maintenance points as set out in the **Maintenance chart**.

If you are uncertain regarding working procedures consult the **Service Manual** for the truck.

Other service and repair work

- In addition to the maintenance points in the **Maintenance chart** all service and repair work should be carried out by personnel with special training for this type of truck.

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