

WIGGINS

LIFT CO., INC.

MODEL W550YXXLe-48-170 Operator's Manual



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It is the operator's responsibility to read and understand this manual before operating the Wiggins Yard eBull®. It is important that the owner and operator know and understand all applicable laws, rules and requirements for operator training and certification. As an operator of this powered industrial truck, the operator is responsible for the safety of him/herself and co-workers or bystanders. Good safety practices not only protect the operator and the equipment, but also protect anyone who might be in the vicinity. Only authorized persons are allowed to operate the Wiggins Yard eBull®. The Operation and Safety Manual must always be kept in the cabin or in the vicinity of the authorized operator for reference.

Perform operator daily check before operating this equipment.
Report damage or faulty operation immediately. Do not operate this equipment if it is damaged or does not operate correctly. If in doubt always contact the Dealer
or Wiggins Lift Co.

The Wiggins Yard eBull is an all electric battery powered forklift and is therefore Zero Emission and quiet. Batteries are charged from a charge station as needed. They remain on board the truck and no operator access is needed. The operations and controls are very similar to a diesel powered forklift. There is no oil pressure gauge and the temperature of the batteries and electric motors are maintained by the on-board computers. As you use the truck, the only gauge to watch is the battery State of Charge. As the truck is used, when the State of Charge shows less than 20%, it is time to think about heading back to the charge stations to put this truck on a charger and pick up a fresh one, before it goes below 5%.

RECOGNIZE SAFETY INFORMATION:

This is the **safety-alert symbol**. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. Follow recommended precautions and safe operating practices.

UNDERSTAND SIGNAL WORDS:

A signal-word — DANGER, WARNING, or CAUTION — is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

HIGH VOLTAGE HAZARDS:

Unique to a Battery Electric Vehicle is the hazard of high voltage components and wiring. **ORANGE** cables may have high voltage or high current exposure and should only be disconnected by trained and authorized mechanics. Any boxes inside the truck that are marked with the High Voltage Hazard type decals do not contain user serviceable or user repairable parts and must only be opened by trained and authorized mechanics.

FOLLOW SAFETY INSTRUCTIONS:

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without proper training and instruction.



Currently in both ANSI Z535.2-2007 and ANSI Z535.4-2007



Currently in both ANSI Z535.2-2007 and ANSI Z535.4-2007



Currently in both ANSI Z535.2-2007 and ANSI Z535.4-2007





WARNING: Drugs and Alcohol will affect an operator's alertness and coordination. An operator should NEVER use drugs or alcohol while operating a forklift. An operator taking prescription or over-the-counter medication must consult a medical professional regarding any side effects of the medication that would hinder their ability to safely operate this equipment. NEVER allow anyone to operate this forklift when their alertness or coordination is impaired.

WEAR PROTECTIVE CLOTHING - Wear all protective gear and clothing issued to you or called for by job conditions.

- Wear close fitting clothing and safety equipment appropriate to the job.
- Wear a suitable hearing protective device such as earmuffs or earplugs to protect objectionable or uncomfortable loud noises.
- When you drive connecting pins in or out, guard against injury from flying pieces of metal or debris; wear goggles or safety glasses.

You may also need: Hard Hat, Safety Shoes, Heavy Gloves, Reflective clothing, Wet Weather gear, Respirator or filter mask.

KNOW THE EQUIPMENT:

Study all safety and information decals on your forklift and in your operators' manual. Make sure all manufacturers' protective structures, guards, shields, screens, panels, and seat belts are in good repair, in place and fastened. NEVER modify or remove any safety components on your forklift. Know the pinch points and rotating parts on the forklift – awareness on YOUR part can prevent accidents.

Know the following about your forklift:

- How to operate all controls.
- The functions of all gauges, lights, and dials.
- The rated load capacity at different load positions.
- Directional Control with F-N-R switch.
- Braking and steering characteristics.
- Turning radius and clearances.
- How to Plug In Charge Cord
- How to Unplug Charge Cord

AVOID POWER LINES:

- Serious injury or death can result from contact with electric lines.
- Never move any part of the machine or load closer to electric lines than 3 m (10 ft) plus twice the line insulator length. Use a signal person to guide operator. Use shrouds or insulators as necessary.

KNOW THE WORK AREA:

Before you operate, learn as much as possible about the work area. Observe the worksite and inspect the surface(s) over which you will travel. Avoid: Holes, Drop-offs, Obstacles, Rough Spots, Electrical Lines and apparatus, Soft Soil, Deep Mud, Standing Water, Oil Spills, Wet Spots, and Slippery Surfaces. If any of these conditions exist in the work area, correct the condition before operating.

When operating on docks, ramps, or floors, check for weak spots. Clear the worksite of any trash or anything that could puncture a tire. When required, check the forklifts fully loaded ground pressure weight when operating on a hollow floor system.

Watch for conditions that could cause: Loss of Control, Collision, or a Tip-over. Know exactly how much clearance you have under power lines, telephone lines, doorways and canopies.

PLAN YOUR WORK:

Before you operate, know how and where you will travel, turn and pickup, lift and place loads. Choose a smooth level route to prevent possible tip-over or loss of load. If possible, avoid crossing: Ruts, Ditches, Curbs, and Exposed Railroad Tracks. When these conditions cannot be avoided, keep the load as low as possible and travel VERY SLOWLY and with EXTREME CAUTION.

Check for blind spots on the worksite. Stop and sound your horn before proceeding slowly around a blind corner.

Know the weights of all the loads you will transport before lifting. Avoid loads of loose material if possible and check that loads are properly secured.

Obtain written instructions and approval from the equipment manufacture before suspending “free-rig” loads. Suspended loads are very dangerous.

Use a signal person if you will be placing loads in landing areas with poor visibility.

Know and Understand:

- The rules covering traffic at the worksite;
- The meaning of all signs, flags, and markings.
- Hand, flag, whistle, siren, or bell signals.

USE a signal person Near the Point the Load is to be Landed



Know the rules for movement of people and forklifts on the worksite. Slow down and sound your horn, making sure that your approach has been acknowledged by those in your path. Stop your forklift until your presence has been recognized or until the path is clear.

Operating in an area with public access requires that you create a “safety zone” for the operation of your machine. Mark your working “safety zone” using cones, barricades and warning tape. Make sure a trained signal person is available to warn people away from the working area. Be sure that all available warning devices are activated and working properly.

Ensure that adequate clearance is provided between both rear tail swing and front fork swing of the forklift to avoid injury to personnel or damage to objects nearby.

Know where you will be expected to park your forklift at the end of the work day, preferably in a level area out of traffic, or at a charge station. If the area is on a slope or incline, position the forklift straight up the slope, set the parking brake, lower the forks to the ground, and block the wheels.

Remember:

- Be Alert – Knowing that conditions can change.
- Use Common Sense – Showing that you are a responsible operator.
- Be a Defensive Operator – Preventing accidents before they happen.

START SAFELY:

Before entering the operator’s compartment, walk completely around the forklift checking that no one is under or on the forklift.

USE HANDHOLDS AND STEPS:

- Falling is one of the major causes of personal injury.
- When you get on and off the machine, always maintain a three point contact with the steps and handrails and face the machine. Do not use the steering wheel or any controls as hand holds.
- Never jump on or off the machine. Never mount or dismount a moving machine.
- Be careful of slippery conditions on steps and handrails when leaving the machine.

Always use “three point contact” with the machine, face the machine when you enter or leave the machine.

(“Three point contact” means that three out of the four arms and legs are in contact with the machine at all times during mount and dismount.)

Warning: Never grab onto control levers or the steering wheel when mounting. Avoid stepping on foot pedals while entering, to prevent you from accidentally engaging or disengaging a control, which could cause unexpected forklift movement.

**PROVIDE
Adequate Clearance for
Fork and Tail Swing****ENGAGE
Parking Brake
BEFORE Dismounting**

HAZARDS and CAUTIONS: Before you operate this powered industrial truck, you must be trained and authorized. You must read and understand the operator's manual and all safety labels on the unit. Control the load and the forklift at all times. Be aware of overhead and side clearances. Turn to face the direction of travel when backing.

- **WARNING! LIFTING PERSONNEL CAN RESULT IN INJURY OR DEATH.** This unit is not designed for lifting personnel. Do **NOT** lift when a person is on or near the forks. Never lift a load with a passenger.
- **NO RIDERS!** Do **NOT** allow riders. The only person on the truck when it is in motion shall be the operator.
- Do **NOT** stand or walk under an elevated fork or load. Never climb on the mast or boom or other areas for the forklift. You may get pinned or wedged from a fall, resulting in injury.
- **WARNING! LIFTING A LOAD THAT EXCEEDS THE RATED LOAD CAPACITY AND LOAD CENTER CAN LEAD TO TIPPING DANGER.** This unit is designed for lifting a maximum specified load, as stamped on the data plate. A chart is provided in this manual that provides the maximum loads at various load centers. Know and understand the chart.
- **WARNING! COLLISION CAN RESULT IN EQUIPMENT OR LOAD DAMAGE, INJURY OR DEATH.** Watch for pedestrians, obstructions, doors, and overhead wires. When traveling and turning, slow down and watch for side clearances for both the load and tail swing. When traveling in reverse, face the direction of travel.
- Wear the seat belt any time the truck is in motion.
- Drive carefully, keeping the forks as low as possible and tilted back as necessary.
- **WARNING! LOSS OF CONTROL CAN RESULT IN TIPPING DANGER.** Do not turn on a slope. Slow down to turn and keep the load low. Center the load before lifting or lowering a load. If the carriage is elevated, keep the speed of tilting slow and avoid sudden movements.
- Bring truck to a complete stop before changing direction between forward and reverse.
- **PARKING:** Select a flat and level area to stop the forklift. Lower the forks to the ground. Put directional control into neutral and set the parking brake. Turn off the key to stop the motors.
- Before lifting a load, make sure the forks are adjusted to the best width for the load and that the load is stable and centered.



- Carry the load as low as possible while maintaining good visibility.
- Follow traffic rules when traveling.
- Keep all other personnel away from the forklift before turning the power on.
- **WARNING!** Never leave the operator's seat without first safely shutting down the forklift. A running, unattended forklift could unexpectedly move or be operated by inexperienced personnel.
- **WARNING!** Do not jump from a moving or tipping machine. Remain seated with the seat belt securely and properly fastened whenever the machine is in motion. If the machine tips:
 - Do not jump.
 - Brace your feet firmly on the floor.
 - Grip the steering wheel tightly.
 - Lean away from the direction of the fall.
- **WARNING!** When ascending or descending grades, **loaded trucks** shall be driven with the load upgrade. Unloaded trucks should be operated on all grades with the load engaging means downgrade. On all grades the load and load engaging means shall be tilted back if applicable, and as low as possible while clearing roadway.

OPERATION:

Verify that the Mechanic Safety Check has been completed since last use. We suggest that there be an official document that the operator signs to the effect that he has read all the procedures; understands them and carried them out before using the Wiggins Yard eBull®. This is normal procedure for products such as this and can prevent any confusion if any damage occurs during operation.

Safe Operating Procedures:

- **Start:** After verifying that the Mechanic Safety Check List is complete and any repairs or maintenance is complete.
- Fasten your seatbelt.
- Check that the parking brake is on and the direction selector is in neutral.
- Check that the hydraulic controls are in their centered, neutral position and that no objects are nearby that might fall against the levers or joysticks.
- Warn all others in the area that you are going to start the forklift.
- Turn key to the "ON" position and wait for operation screen to completely load.
- It can say ready, charging, fully charged, or not ready. If "Ready" then proceed to Operation Check.
- If screen indicates "Charging" or "Fully Charged," remove the charge plug from vehicle charge port and verify that the screen shows "Ready".
- If screen indicates "Not Ready," check to see if battery or coolant temperatures are too hot, or if not all batteries are online. Turn key off, then key on and check if "Ready" is indicated.
- If not Ready, then key off and turn master disconnect off for 30 seconds then try again.



WARNING – Never allow passengers to ride on the forklift. This forklift is designed for ONE PERSON only.

Pre-Operation Check - After the forklift is powered on, perform the following operational checks.

1. Check all instruments, gauges, and indicator lights.
2. Verify operation of the work lights and horn.
3. Check the steering, right and left.
4. Check all control levers for proper operation.
5. Check brakes for proper operation.
6. Briefly lift the fork carriage and check for smooth motion and normal sounds. Check also during lowering. Lubricate components as necessary.
7. Briefly lift the mast section and check for smooth operation and normal sounds. Check also during lowering. Lubricate components as necessary.
8. Lift the forks clear of the ground and operate the fork controls, again checking for smooth operation. Lubricate components as necessary.
9. At rest, tilt the mast forward and back.
10. Without releasing the parking brake, and with a foot ready on the service brake pedal, place the directional control in FORWARD. It should not move. Repeat with the direction control in REVERSE. Place the direction control in neutral.
11. Release the parking brake, place the truck in FORWARD and verify operation of the service brakes and steering. The motion alarm should be on while in FORWARD.
12. Place the direction control in REVERSE and verify operation of the service brakes and steering. The backup alarm should be on while in REVERSE.

If there is any indication that an abnormal condition exists or the controls do not respond correctly, shutdown safely and correct the condition before operating.

Be sure that you can control both the speed and direction before moving.

If in doubt always contact the Dealer or Wiggins Lift Co.

WARNING DECAL

Before Operation:

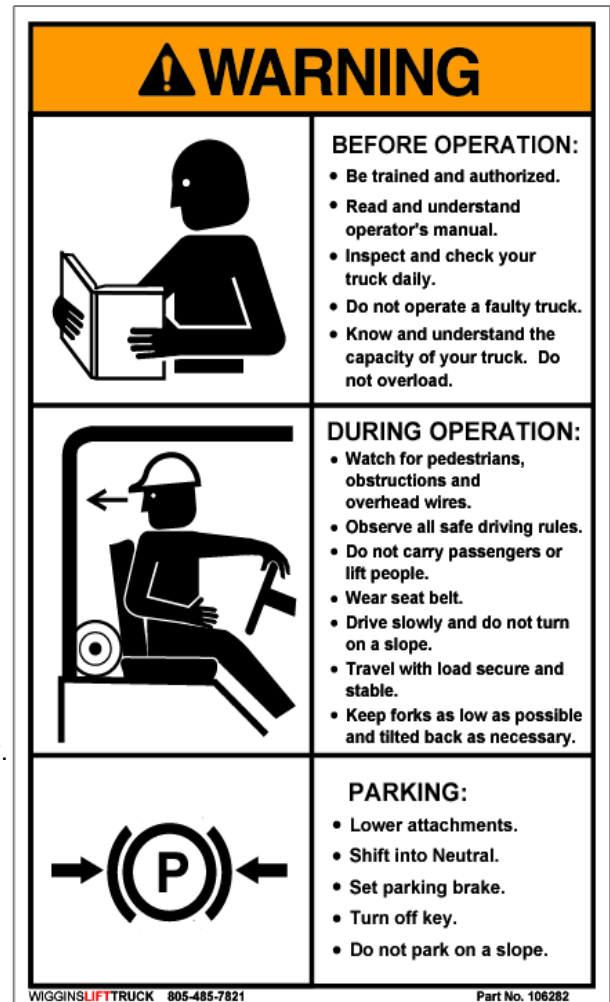
- Be trained and authorized.
- Read and understand your operator's manual.
- Inspect and check your truck daily.
- Do not operate a faulty truck.
- Know and understand the capacity of your truck.
Do not overload.

During Operation:

- Watch for pedestrians, obstructions and overhead wires.
- Observe all safe driving rules.
- Do not carry passengers or lift people.
- Wear seat belt.
- Drive slowly and do not turn on a slope.
- Travel with load secure and stable.
- Keep forks as low as possible and tilted back as necessary.

Parking:

- Lower attachments.
- Shift into Neutral.
- Set parking brake.
- Turn off key.
- Do not park on a slope.



SAFETY WHILE OPERATING

Review **ENTIRE** manual before operating this machine.

Safety Instructions:

1. Before you operate this truck you must be trained and authorized.
2. Read and understand the operator's manual and all safety labels before operating this truck.
3. Perform operator daily check before operating this truck.
4. Before lifting load, adjust forks for a stable load.
5. When traveling and turning, slow down and watch for side clearances for both the load and the tail swing.
6. Watch for overhead obstructions including high voltage wires and doors.
7. Drive carefully, keeping forks as low as possible and tilted back as necessary.
8. Do not stand or walk under an elevated load.

Load Handling Safety:**Heed these safety rules:**

- When lifting or loading, tilt mast back.
- Use caution when tilting mast forward to ensure load does not shift off forks.
- Never carry maximum rated load with center of load 24 inches above forks.
- Avoid sudden starts and stops to prevent load from shifting.
- Lift loads on level ground to prevent rollover.
- Always watch for overhead obstructions when operating and lifting loads.
- Do not exceed the lifting capacity of the forklift.
- Always ensure forks of the proper capacity are used. Never interchange forks with forks of a different rating.
- Do not add or subtract weight from the counterweight.
- Avoid raising the load when the wind velocity is excessive.



WARNING – Avoid traveling with mast or boom elevated. Start, stop, travel, steer and brake smoothly. Slow down for turns. Slow down for rough, slippery, or soft terrain.

SAFETY INSTRUCTIONS

1. Before you operate this truck you must be trained and authorized.
2. Read and understand the operator's manual and all safety labels before operating this truck.
3. Perform operator daily check before operating this truck.
4. Before lifting load, adjust forks for a stable load.
5. When traveling and turning, slow down and watch for side clearances for both the load and the tail swing.
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WIGGINS LIFT TRUCK 805-485-7821Part No. 106283

Mechanic Safety Check

- _____ 1. Check for broken, missing or damaged parts. Check for loose or missing fasteners.
- _____ 2. Check that no safety switches have been bypassed and that no warning tags have been placed on the vehicle.
- _____ 3. Check that warning decals, special instructions and operator's manuals are legible and stored in the proper location.
- _____ 4. Check forks for rust, cracks or misalignment. Replace the forks IN SETS when the condition of the fork(s) is questionable. Replace with factory approved forks ONLY.

IMPORTANT: DO NOT use forks which have been repaired by welding.

- _____ 5. Check that the means to retain forks, if so equipped, are in place to prevent forks from changing position or coming off the carriage.
- _____ 6. Check tires for cuts, bulges, tread depth and air pressure if pneumatic.
- _____ 7. Check service and parking brakes for proper operation.
- _____ 8. Keep radiator clean and free of dirt and other debris.
- _____ 9. Check cooling system for proper levels. Add coolant as required to reservoir bottle.
- _____ 10. Check the level of the hydraulic system. If necessary, fill to the required level with the proper type fluid.
- _____ 11. Inspect hydraulic hoses and connections for wear or leaks. Repair or replace any damaged or worn hose with officially original accepted hydraulic hoses.
- _____ 12. Check condition and operation of seat belt and its mounts.
- _____ 13. Keep steps, pedals and non-skid surfaces clean and free of grease, oil, dirt, snow or ice.
- _____ 14. Make sure all doors, guards or covers are in place and secured properly.
- _____ 15. Perform the Pre-Operation Check.
- _____ 16. Perform all maintenance procedures as required. Check AutoLube grease level.
- _____ 17. Make sure work lights, mirror, gauges and operator console are kept clean. Check that lights, horn, and wipers operate properly. Make sure electrical connections are clean and free of damage. Check **ORANGE** cables for nicks or wear.
- _____ 18. Remove or secure any loose objects.
- _____ 19. Survey the work area and notice any potential obstacles.

COMPLETED BY: _____
O.K.: _____ DATE: _____

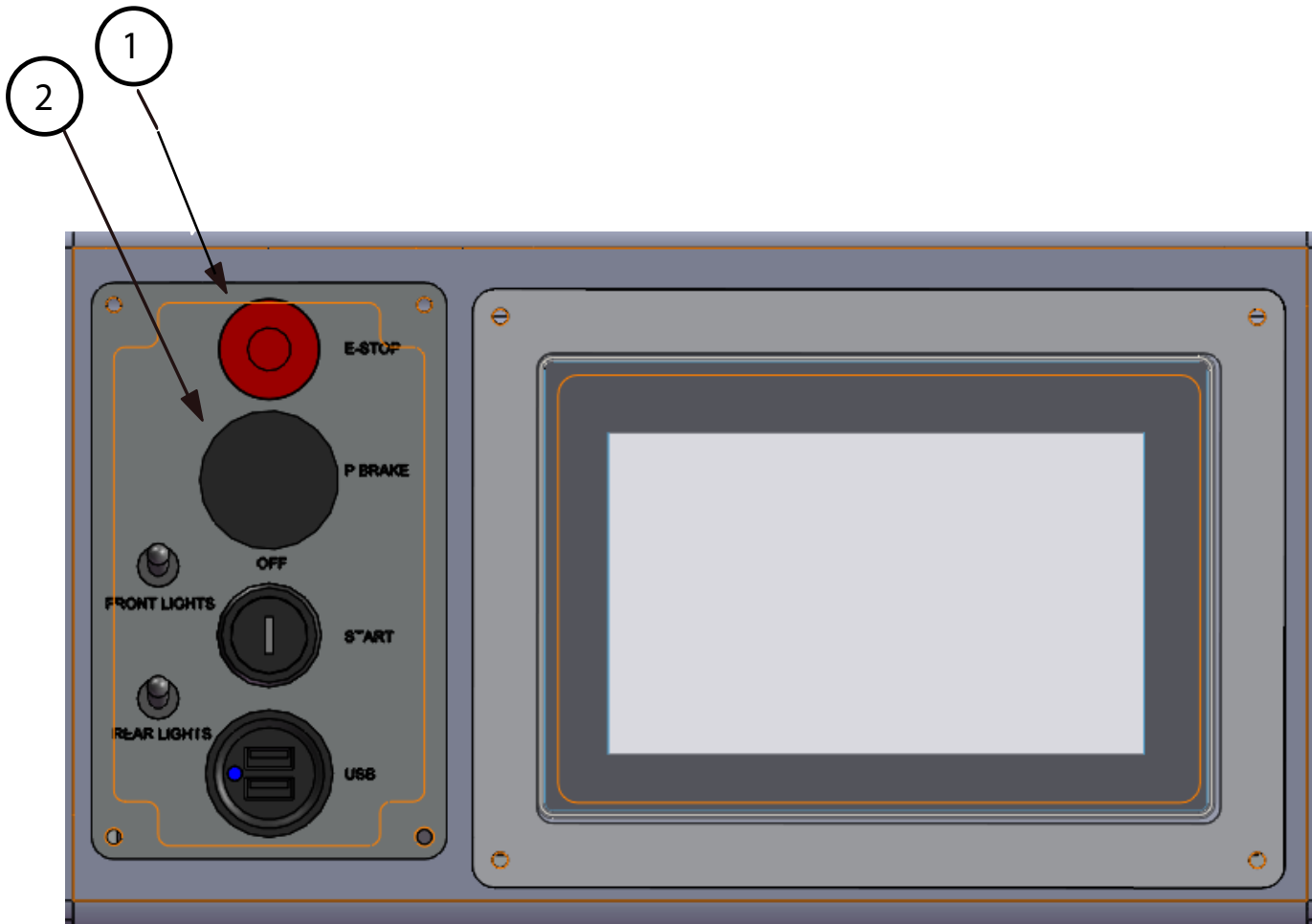
SERIAL #: _____
HOURS: _____

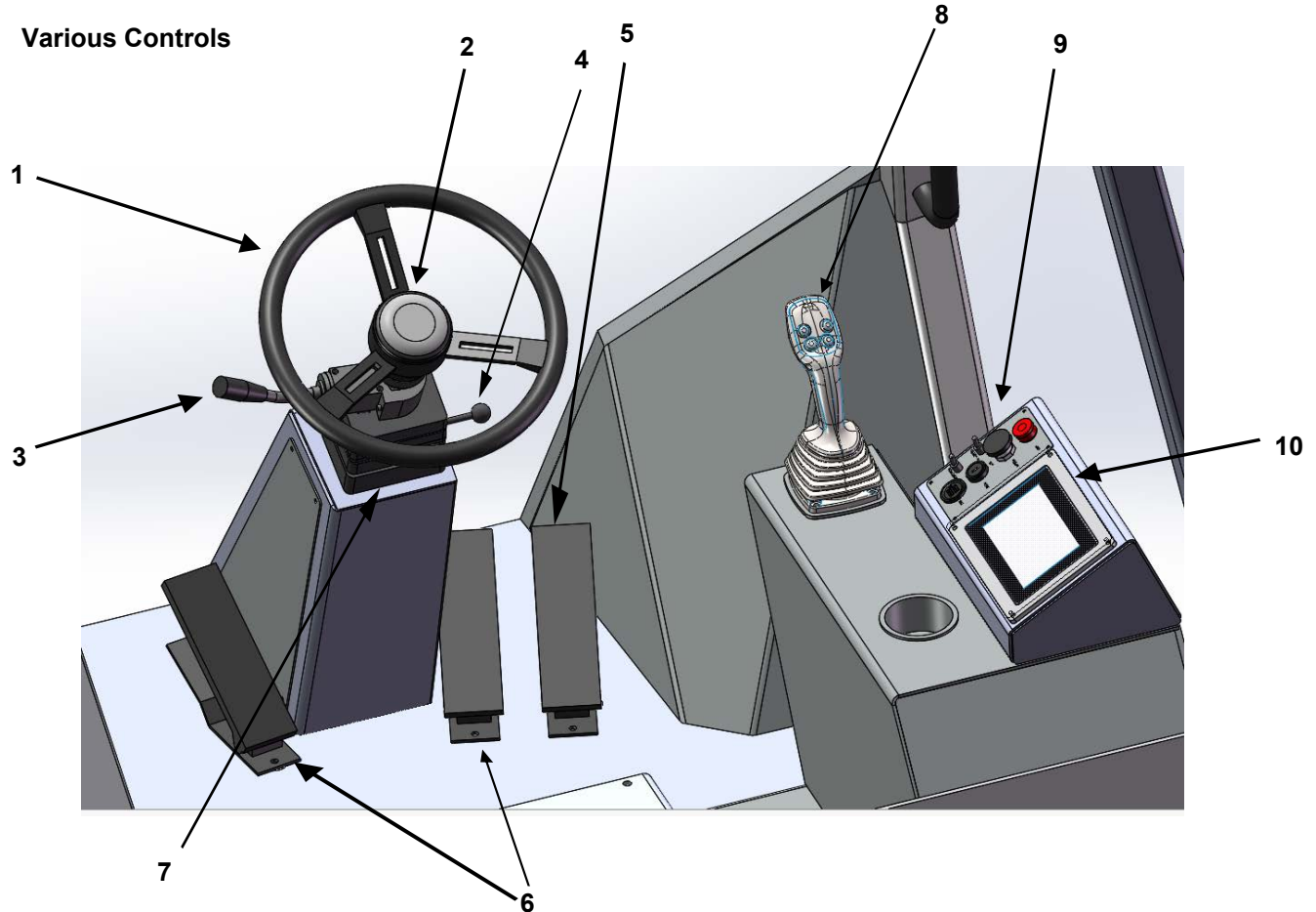
Do not operate the Wiggins Yard eBull® if any of the Mechanic Safety Check procedures are faulty. If in doubt always contact the Dealer or Wiggins Lift Co.

Descriptions of Safety Features and Components: The Wiggins Yard eBull® has safety features to protect the operator, nearby pedestrians, the loads being moved and the equipment itself. The operator must learn these features in order to safely operate this sophisticated and highly capable machine. Always wear your seatbelt!

Horn and Motion Alarm: The center of the steering wheel is a button for activating a horn to warn pedestrians and other equipment operators. Because electric motors are quiet, and difficult for pedestrians to hear in noisy work environments, a white noise device is activated whenever the directional control is in FWD and the truck is moving FWD. In addition, whenever the forklift truck is in REV, a beeping motion alarm will sound. This motion alarm will not sound when the transmission is in neutral. It has a switch that can be set at two levels. It is Wiggins factory pre-set at the recommended higher level.

Brakes and E-Stop: There are two brakes: Service and Parking. The Service Brake is connected to the foot brake pedal and the amount of braking is controlled by the amount of foot pressure on the pedal. The Parking Brake is also the emergency brake. When this brake is activated, the truck comes to stop in a short distance. The red E-Stop (#1) button on the dash panel will stop the motors, which stops the hydraulic pump, and the Parking Brake will come on. If there is damage to the hydraulic system and the system loses pressure, the Parking Brake will come on. The Parking Brake switch (#2) on the dash panel will also turn on this brake. If the Parking Brake has been activated while the truck was in motion, the brake pads must be inspected by qualified personnel.





1. Steering Wheel

- Turn wheel left for left turn.
- Turn wheel right for right turn.

2. Horn Button

- Push to activate.

3. Shifter

- Center position is Neutral.
- Pull Up & Push forward for forward drive
- Pull Up & Pull Back for reverse drive

4. Signal Control Lever

- Push forward for Left Turn.
- Pull back for Right Turn,
- Pull tab out for Hazard Lights.

5. Accelerator Pedal

- Push to increase speed.

6. Brake Pedal (2 pedals)

- Push to engage service brake.

7. Steering Column Adjustment

- Push button under steering wheel to adjust steer column angle.

8. Joystick - Operation

- Forward = Lower
- Rearward = Lift
- Right = Tilt Forward
- Left = Tilt Back

Push & Hold Left Button for LH Fork Position

- Tilt Joystick to the Left = Move Left Fork Left
- Tilt Joystick to the Right = Move Left Fork Right

Push & Hold Right Button for RH Fork Position

- Tilt Joystick to the Left = Move Right Fork Left
- Tilt Joystick to the Right = Move Right Fork Right

Pull & Hold Trigger Button for Side Shift

- Tilt to the Left = Side Shift both forks to the Left
- Tilt to the Right = Side Shift both forks to the Right

9. Switch Panel

10. IQAN Display

Foot Pedals: The brake pedal and throttle pedal are on the floor to the right side of the steering column and perform the same as in an automobile. A second brake pedal is provided to the left side of the steering column for operators who prefer to drive two-footed. Either pedal applies the service brake.

Steering: The steering is hydraulic. On some short wheel base trucks, the hydraulic pressure may not be sufficient to move the steer tires past a certain point unless the truck is moving forward or reverse. This is normal. Even rolling just a few inches allows the steer tires to turn to their fullest extent.

Drive: The Directional Control is the F-N-R switch to the left side of the steering column behind the steering wheel. Moving the control forward allows the truck to move forward. Moving the control backwards toward the operator allows the truck to move backward. Care and patience while driving will allow the operator to maintain control of the load and the forklift and allow enough time so the operator can watch the tail swing and load clearances. Start moving slowly at first. Wiggins suggests driving at a reasonable speed when carrying a load. With exceptionally long or wide loads or high lifts, Wiggins recommends use of one or two spotters.

Lift a Load: Wiggins Yard eBulls® are designed for many different load handling configurations. For attempting to lift loads of uncertain weight and load center, Wiggins provides an indicator that can protect the equipment and the operator from an overload condition. Any attachments with ratings approved by Wiggins are listed on the Capacity and ID plate.

Park and Shutdown: Select a flat and level area to stop the forklift in the charge yard. Lower the forks to the ground. Set the parking brake and turn the key to the off position. The official authorized person must always remove the starter key if the Wiggins Yard eBull® is left unattended. The key must be safely stored.

Blue Lights Indicate Battery Level: Blue LED lights on the machine indicate a low State of Charge when the key is on. The blue lights begin flashing slowly when the State of Charge is less than 20% and the operator should begin planning to return to the charge yard. The blue lights change to rapid flashing when below 10%. At the 5% level the machine performance also slows down to indicate to the operator it is time to plug in a charger cord. The most efficient charging rate is between 10% and 90%.

Charging: After the forklift is parked and shutdown in a designated parking spot within reach of an available charge station, and the key is off and removed, open the charge port door and insert the charge plug. Use the key card to activate the charge station. Verify that charging has started. Blue corner lights on the truck should flash. The Charge Station should indicate that charging has started after a short delay. Place the truck key and key card in a safe location.

Complete Charge and Stow Charge Cable: If DC charging on the large Fast Charger, follow the instructions on the screen to stop charging. Remove cable and stow aboard the Charge Station. If AC charging using the small Level 2 charge station, simply unplug the cord and stow aboard its charge station. Close charge port door.

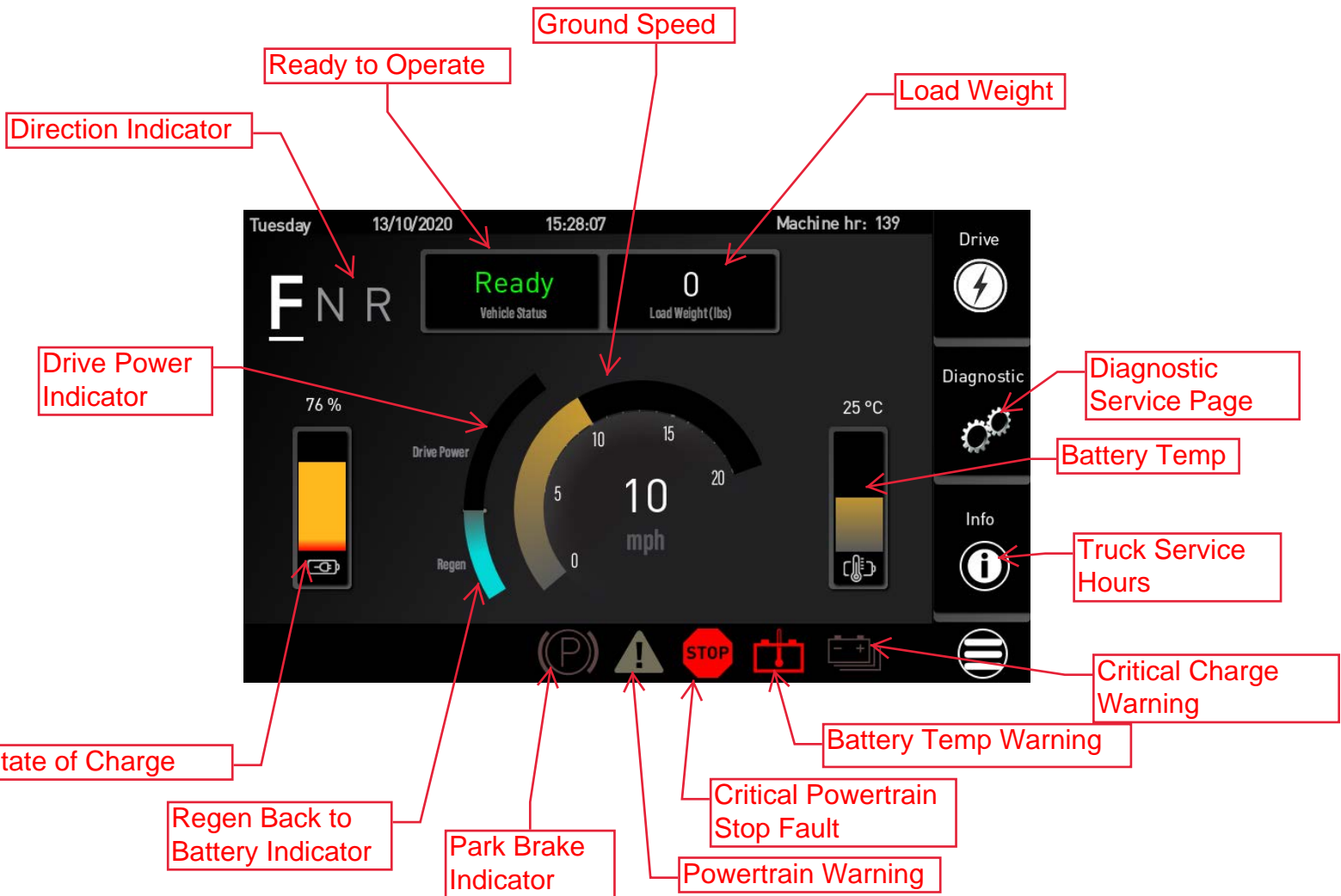
1. Each time the truck is parked and not used for a day or two, the **Master Switch** must be turned off. If left on, the **24V battery pair** will drain in a few days.
2. If the 24V battery is drained and needs to be charged, an external charger must be compatible with AGM batteries connected as 24V.
3. Connect the correct charger as follows:
 - 3.1 The Master Switch should be turned to the off position to prevent accidental operation.
 - 3.2 Open the side door, see the positive battery terminal and the bracket bolt as shown in the photo, below left.
 - 3.3 Connect the red/positive clamp to the positive battery terminal as shown in the photo, below right.
 - 3.4 Connect the black/negative clamp to the bracket bolt as shown in the photo, below right.
 - 3.5 Plug in and turn on charger. Verify proper operation.
4. After a few hours, check battery voltage and condition.
5. Unplug charger, disconnect terminal clamps, and make sure the Master Switch is off.



Wiggins Information Center

Introduction

The Wiggins Information Center with the state of the art IQAN™ System keeps the operator informed about powertrain performance and status. The Info Center will show an automatic reminder of daily checks as well as information for the Mechanic about required service intervals. The Info and Diagnostic screens can be used by a Service Technician to monitor and diagnose system performance and problems based on the information from the VCU (Vehicle Control Unit) about the HV Batteries and components. See SERVICE MANUAL.



Controls - The controls of the Wiggins Yard eBull® are conveniently located within easy reach of the operator.

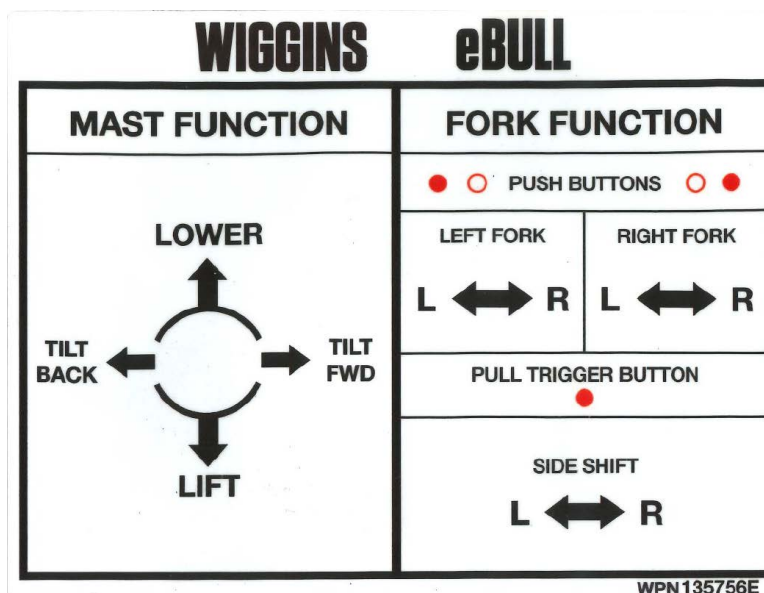
Control Panel: The parking brake switch is guarded from accidental activation. Push the parking brake button down to turn the parking brake off and the truck is free to move. Pull up, the parking brake is on. The key switch has two positions: Off and On.

Hydraulic Controls: The hydraulic controls are an electric joystick with buttons, to select different functions. The response speed of any hydraulic function is directly related to the amount movement of the control. The operator should always begin activation of a control by moving the control a small amount until the function responds so the operator can be satisfied that the correct function and direction is happening as expected.

The joystick can be moved left and right, forward and back to control the mast lift and tilt. There are two buttons and one trigger for controlling the forks.

Pulling the joystick backwards raises the carriage. Pushing the joystick forward lowers the carriage. Pulling the joystick to the left toward the operator tilts the mast back toward the operator. Pushing the joystick to the right away from the operator tilts the mast forward away from the operator.

There are three functions for the forks: Left Fork Position, Right Fork Position and Side Shift. The Side Shift control moves the forks in the same direction at the same time and can be used with the rated load in place. Push and hold the **left** button while moving the joystick left and right to move the **left** fork left and right. Push and hold the **right** button while moving the joystick left and right to move the **right** fork left and right. Pull and hold the **trigger** under the joystick while moving the joystick left and right to move both forks and the load left and right for **side shift**.



Seat Controls and Indicators

(Controls and indicators may vary depending on particular model of seat used)

1. Knob for lumbar support
2. Armrest
3. Knob for armrest angle adjustment
4. Belt Roller
5. Handle for backrest adjustment
6. Handle for level adjustment
7. Seat level indicator
8. Handle for fore/aft adjustment
9. Seat belt buckle

