



Operation and Safety Manual



XR2045

DZ Tier 4 Final

PN 24938-002

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Warning



Wear appropriate protective clothing. Personal protective equipment can include, but is not limited to hardhat, gloves, footwear, safety glasses or goggles, and hearing protection. Make sure clothing is snug and properly belted. **DO NOT** wear loose clothing, jewelry, watches, or anything that can catch on forklift controls, moving parts, etc. Failure to wear the proper protective clothing could result in death or serious injury.

Before Starting Forklift

Warning



Keep the Operation and Safety Manual on the forklift at all times. Contact Xtreme Manufacturing for replacement manuals.



Clearly define responsibilities and procedures for operating the forklift and all attachments. **DO NOT** proceed until you seek expert assistance from a qualified person if any doubt or question arises about the correct or safe methods for operating the forklift.



To avoid death or serious injury, carefully read and understand all instructions before operating the forklift. **DO NOT** operate, modify, repair, or maintain the forklift unless you read and understand the instructions and warnings in this and all other applicable manuals and technical publications. Follow all State and Federal health and safety laws and/or local regulations.



Consult Material Safety Data Sheets (MSDS) for chemical hazards and first aid instructions. MSDS should be available from the manufacturer or supplier of the fluid.

Warning



Perform a pre-operation inspection and functional tests at the beginning of each work shift. Perform the pre-operation inspection first. **DO NOT** perform the pre-operation inspection with the engine running or hot. Contact with moving or heated parts could cause death or serious injury.



Perform the pre-operation inspection and functional tests in an open area and away from any other obstacles or equipment. Inspections and functional tests may require assistance. Keep the assistant visible and a safe distance from the forklift to prevent death or serious injury.



Become familiar with all safety and hazard labels, regulations, and procedures. Make sure all proper safety and hazard labels are attached to the forklift and remain legible.



A brief description of controls, indicators, and instruments is provided as a convenience for the operator. These descriptions **DO NOT** provide complete operation instructions. Read and understand the entire manual to prevent death, serious injury, or equipment damage.



Keep fingers and feet away from moving parts or pinch points to prevent pinching or crushing. **DO NOT** allow anyone between the tires and the forklift frame while operating the forklift. Doing so can result in death or serious injury.



Always check the condition of the seat belt and mounting hardware before operating the forklift. If the seat belt or mounting hardware is defective, it may not properly restrain the operator, resulting in death or serious injury.

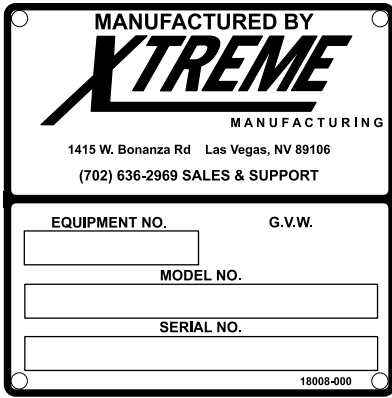
- **DO NOT** operate the forklift until the seat belt or mounting hardware is replaced, if worn or damaged.
- The seat belt **MUST** be worn while operating the forklift. Failure to wear the seat belt could result in death or serious injury.

Replacement Labels

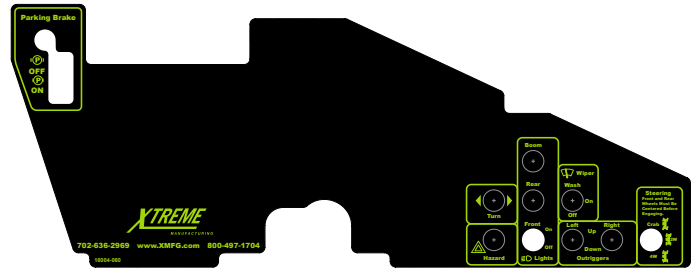
Replacement labels can be obtained by contacting Xtreme Manufacturing directly at (702) 636-2969.

From outside Las Vegas, Nev., call Xtreme Manufacturing toll free at (800) 497-1704.

Please have the correct label number available when you call.



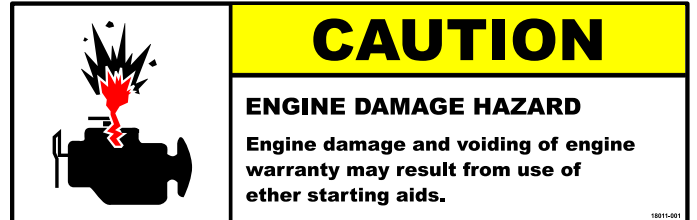
1) 18008-000



2) 18004-060



3) 18010-001



4) 18011-001



5) 18013-002



6) 18014-002

Specifications

Performance



Capacity 20,000lbs
 Lift Height 45'
 Forward Reach 27'4"
 Frame Leveling L/R 8°/8°
 Operating Weight 46,360 lbs

Power Train



Engine Deutz 3.6, 134hp
 Fuel Capacity 72 gal
 Transmission 3-Speed
 Brakes Inboard Wet Disc
 Parking Brake SAHR

Tires



Tires (Standard Eq) Foam Filled
 17.5 x 25 E3

Hydraulics



GPM 49
 PSI 4,000
 Hydraulic Oil Capacity 58 gal

Dimensions



Length to fork face. 22'6" (280")
 Width 8'6" (102")
 Height 8'11" (107")
 Wheel Base 12'3" (147")
 Ground Clearance 1'3" (15")
 Turning Radius 15'10" (190")

Standard Equipment



Heavy-duty Frame/Chassis
 Heavy-duty Roller Boom
 Robust Wiring
 Full-time Planetary 4-Wheel Drive
 Steering - 4-Wheel Circle, Crab, 2-Wheel Front
 Back-Up Alarm
 Open ROPS/FOPS
 Xtreme Service Accessibility
 Suspension Seat
 Rear Axle Stabilization (RAS)
 Rear View Mirrors

Attachments



Standard Carriage - 72" or 96"
 Fork Positioning Carriage - 72"
 + 10° Side Tilt Carriage - 48" or 72"
 + 45° Swing Carriage - 52" or 72"
 Block Forks - 2" X 2" X 48"
 Pallet Forks - 2.25" X 4" X 48"
 Lumber Forks - 1.75" X 7" X 60"
 Utility Bucket - 1.00 cu. yd.
 Concrete Bucket - 0.5 cu. yd., or 1.00 cu. yd.
 Truss Boom - 3", 12' or 15'
 Wallboard/Sheet Material Handler

Accessories and Options



Enclosed Cab
 Limited Slip Differential
 Air Conditioning
 Boom Work Lights
 Rotating Beacon



Figure 37. Service Requested

DIAGNOSTICS

Pressing the ENGINE DIAGNOSTICS soft button will display engine information. Use the up/down buttons to navigate. Pressing the MENU button will return to the GAUGE DISPLAY mode.

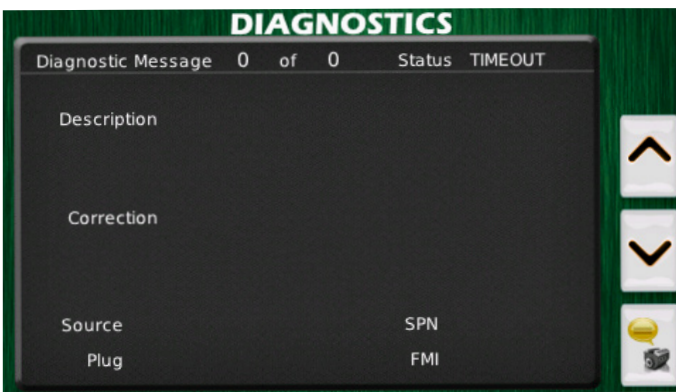


Figure 38. Diagnostics Menu

END OF LINE (EOL) TEST

Pressing the EOL Test select button will enter a test menu that runs the aftertreatment/regen system and makes sure it works properly.

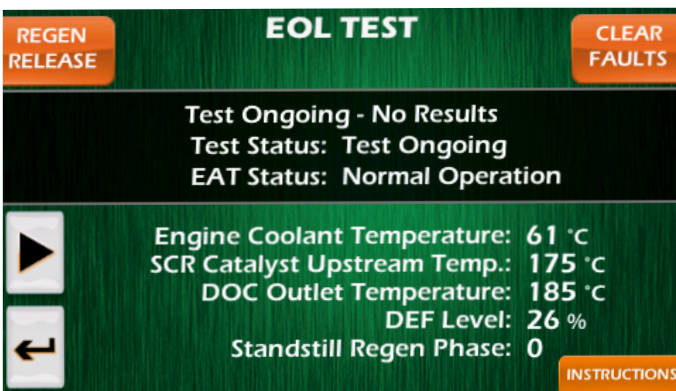


Figure 39. EOL Test

REGEN RELEASE

Pressing the top left-hand select button will start the regen process.

FAULT BUTTON POP-UPS

A fault condition may trigger a pop-up dialog box describing the nature of the fault. It is displayed below the tachometer in the hour meter box (T), which now becomes the Status Display. The General Warning Indicator will also come on.

A soft button may need to be pressed to acknowledge the fault.

CLEAR ALL FAULTS

Pressing the CLEAR FAULTS select button (A) will remove all the faults displayed.



Figure 40. Clear Faults

USER SETTINGS

Pressing the USER SETTINGS soft button will enter a mode where some display settings may be adjusted using the Up/Down buttons.

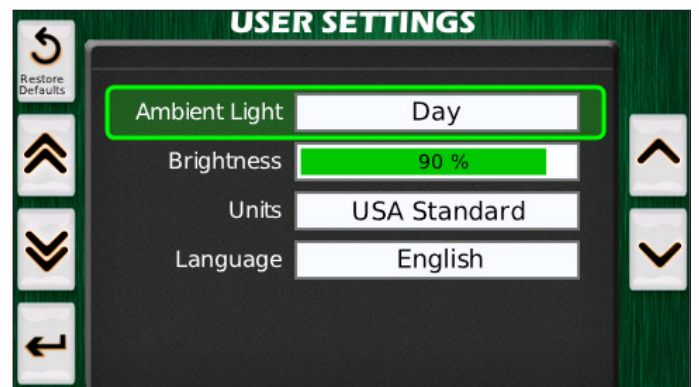


Figure 41. User Settings

The default settings can be restored using the top left button. Each Restore Defaults needs to be confirmed or canceled on the next screen. Pressing the MENU button will return to the previous menu.

Functional Tests

Warning



Perform a pre-operation inspection and functional tests at the beginning of each work shift. Perform the pre-operation inspection first. **DO NOT** perform the pre-operation inspection with the engine running or hot.

Contact with moving or heated parts could cause death or serious injury.



Perform the pre-operation inspection and functional tests in an open area and away from any other obstacles or equipment. Inspections and functional tests may require assistance. Keep the assistant visible and a safe distance from the forklift to prevent death or serious injury.

Contact with moving or heated parts could cause death or serious injury.



Remove forklift from service and place “Do Not Operate” tags on the starter switch and steering wheel if anything is found to be in need of repair or maintenance, defective, or unsafe in any way.

The safety, efficiency, and service life of your forklift will be increased by performing functional tests at the beginning of each shift. If any of the items in the functional tests are not operating properly or within set tolerances, stop the forklift, follow proper shut down procedures, tag the forklift with “Do Not Operate” tags, and have a qualified mechanic service or repair the forklift before placing it into service again.

- Operate the boom control handle forward and backward to lower and raise boom.
- Operate the boom control handle left and right to retract and extend boom.
- Operate the attachment tilt thumb stick up and down to tilt the attachment.
- Operate the sway control handle left and right to frame sway left or right.
- Operate the auxiliary attachment control (if an auxiliary attachment is being used).
- Turn work lights on and off.
- Press the horn button to sound the horn.
- Place the travel select lever in reverse to sound the backup alarm.
- Release the parking brake.
- Operate the forklift in forward and reverse.

- Test the service and parking brakes.
 - Apply the service brake pedal after the forklift begins to move and the forklift should stop immediately.
 - Apply the parking brake. The forklift should not move unless the parking brake is released.
- Test each steering function. Operate the forklift in forward and reverse at low idle speed and turn the steering wheel approximately 1/4 turn in each direction for each of the following modes:
 - Align the wheel and set the Steering Select switch to crab steering.
 - Align the wheel and set the Steering Select switch to 2 wheel (2W) steering.
 - Align the wheel and set the Steering Select switch to 4 wheel (4W) steering.
- Check the gauges after the engine warms to the proper operating range.
 - Check the voltage gauge. The voltage gauge should read between 11 to 15 Volts.
 - Check the engine coolant temperature gauge. The engine coolant temperature gauge should read between 180° to 200° F.
 - Check the engine oil pressure gauge. The engine oil pressure gauge should read between 40 to 80 PSI.

Diesel Exhaust Fluid (DEF)

The DEF tank should be filled after every fuel refill. DEF should be added when the Low DEF Level indicator is displayed. Refer to the Operation section on **Warning Indicators and Fault Codes** and the Engine Indicator Chart (Fig. 69). The total capacity of the DEF tank is 5 gallons.

Warning

If no DEF reagent is available in the DEF tank, the emission requirements cannot be fulfilled and the machine derates eventually to idle only, following a predetermined schedule.

Caution

Using anything other than DEF fluid may result in permanent aftertreatment damage.

Attachments

Attachment Disclaimer

Warning



DO NOT exceed the manufacturer's rated load for any auxiliary attachment. Any attempt to lift or carry loads in excess of the manufacturer's rated load may cause forklift tip over, loss of load, or structural damage which could result in death, serious injury, or property damage.

Xtreme Manufacturing makes no representations or warranties, expressed or implied, as to the design, manufacture, or fitness for use with this forklift of any third party attachment. This forklift is not intended to be used and should not be used with an attachment that would alter the center of gravity or stability of this forklift. Xtreme Manufacturing assumes no liability for any third party attachment that would alter the center of gravity or stability.

Fork Ratings

Warning



DO NOT exceed forklift capacity of 12,000 pounds. The total rated capacity of the forks being used must equal or exceed forklift capacity. Forks can break causing loss of load and could result in death or serious injury.

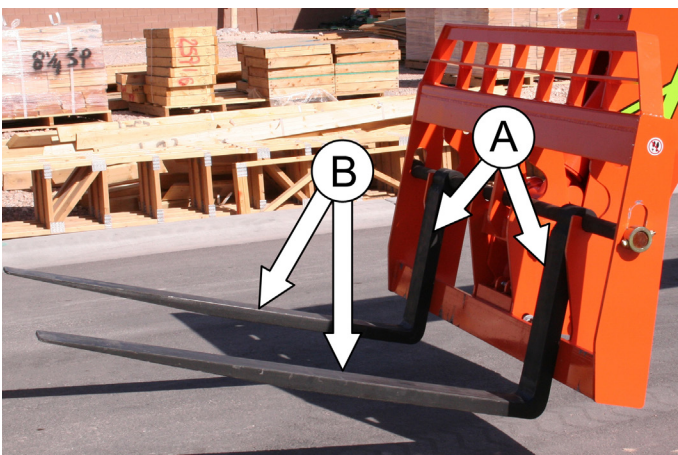


Figure 76. Fork Ratings
(A) Maximum Load Capacity Rating (B) 24 inch Load Center

All approved forks for this forklift are marked with a maximum load capacity rating (A). This rating is stamped on the left edge of the fork just below the fork pivot shaft. The rating listed is in U.S. pounds and is based upon a 24 inch load center (B). This rating specifies the maximum load capacity that the individual fork can safely carry at a maximum load center of 24 inches.

Because forks are always used in multiples, the total rating of any combination of forks will be the sum of their rated capacity. Other than block forks, all forks should be used in matched pairs. Block forks should be used in matched sets.

The maximum load capacity for this forklift is 20,000 lbs. The matched pair or set of forks used on this forklift should have total load ratings which equal or exceed 20,000 lbs. When the load rating of the forklift differs from the load capacity of the forks, the lower value becomes the overall load capacity.

Standard Carriage Operation

The standard carriage uses manually adjustable forks and can be tilted up or down by using the thumb stick on the control handle.

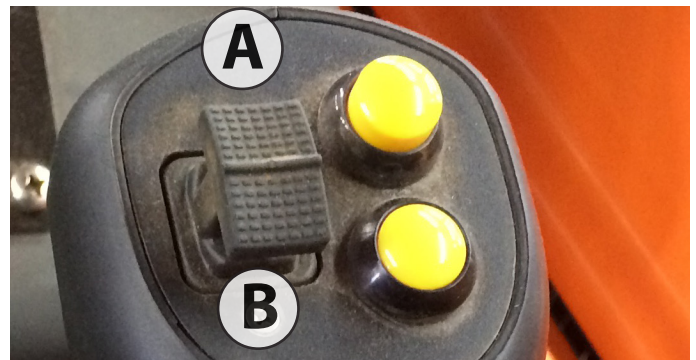


Figure 77. Attachment Tilt Control Switch.
(A) Attachment Tilt Down (B) Attachment Tilt Up

Fork Positioning Carriage Operation

Caution

Do not adjust forks when Fork Positioning Carriage is loaded. Adjusting forks when carriage is loaded may result in loss of load or carriage damage. Always use the Fork Positioning control handle to adjust the forks **BEFORE** loading the carriage.

To move the forks outward, press the top button on the front control handle, or move the auxiliary handle to the left. To move the forks inward, press the lower button on the front control handle, or move the auxiliary handle to the right.

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