



Operator's Manual

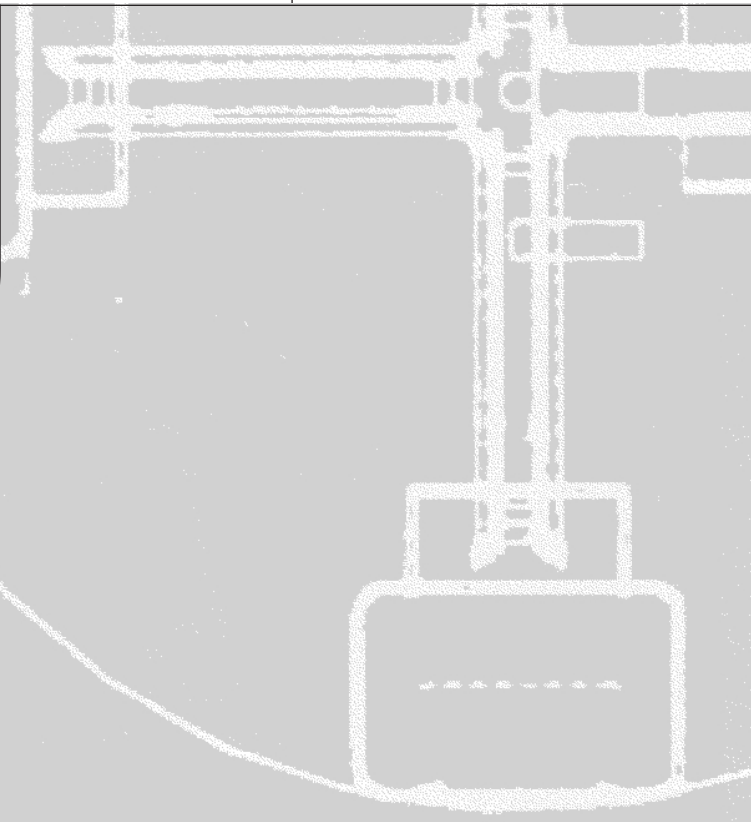
with Maintenance Information

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ZTM-25/8

ZTM-20/8

ZTM-20/8 N



Important

Read, understand and obey these safety rules and operating instructions before operating this machine. Only trained and authorized personnel shall be permitted to operate this machine. This manual should be considered a permanent part of your machine and should remain with the machine at all times. If you have any questions, call Genie Industries.

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Safety Rules



Danger

Failure to obey the instructions and safety rules in this manual will result in death or serious injury.

Do Not Operate Unless:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's manual.

1 Avoid hazardous situations.

Know and understand the safety rules before going on to the next section.

- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.
- 4 Inspect the workplace.
- 5 Only use the machine as it was intended.

- ☒ You read, understand and obey:

Manufacturer's instructions and safety rules—safety and operator's manuals and machine decals

employer's safety rules and worksite regulations

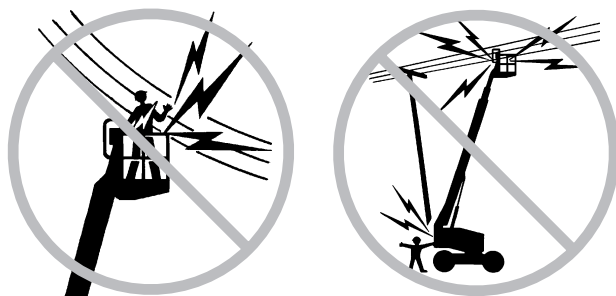
applicable governmental regulations

- ☒ **You** are properly trained to safely operate the machine.

SAFETY RULES

Electrocution Hazards

This machine is **not** electrically insulated and will **not** provide protection from contact with or proximity to electrical current.



Maintain safe distances from electrical power lines and apparatus in accordance with applicable governmental regulations and the following chart.

Voltage Phase to Phase	Minimum Safe Approach Distance	
	Feet	Meters
0 to 300V	Avoid Contact	
300V to 50KV	10	3.05
50KV to 200KV	15	4.60
200KV to 350KV	20	6.10
350KV to 500KV	25	7.62
500KV to 750KV	35	10.67
750KV to 1000KV	45	13.72

Allow for platform movement, electrical line sway or sag and beware of strong or gusty winds.

Keep away from the machine if it contacts energized power lines. Personnel on the ground or in the platform must not touch or operate the machine until energized power lines are shut off.

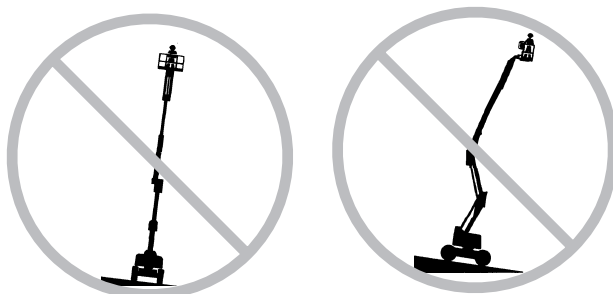
Do not operate the machine during lightning or storms.

Do not use the machine as a ground for welding.

Tip-over Hazards

Occupants and equipment shall not exceed the maximum platform capacity.

Maximum platform capacity - Z-20/8N - ANSI & CSA	400 lbs 181 kg
Maximum platform capacity - Z-20/8N - CE	440 lbs 200 kg
Maximum platform capacity - Z-20/8 & Z-25/8 - ANSI, CSA & CE	500 lbs 227 kg
Maximum occupants	2



Do not raise the boom unless the machine is on a firm, level surface.

SAFETY RULES

Do not depend on the tilt alarm as a level indicator. The tilt alarm sounds in the platform only when the machine is on a severe slope.

If the tilt alarm sounds:

The jib boom will not rotate and the platform will not raise. Move the machine to a firm, level surface. If the tilt alarm sounds when the platform is raised, use extreme caution to lower the platform. The jib boom will rotate and the platform will raise when the machine is level and the tilt alarm is off.

Do not alter or disable the limit switch.

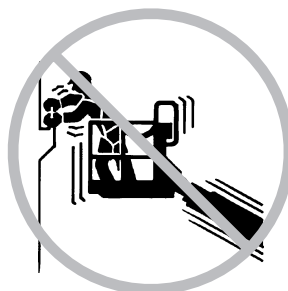
Do not drive over 0.6 mph / 1 km/h with the secondary boom raised.

Do not operate the machine in strong or gusty winds. Do not increase the surface area of the platform or the load. Increasing the area exposed to the wind will decrease machine stability.



Use extreme care and slow speeds while driving the machine in a stowed position across uneven terrain, debris, unstable or slippery surfaces and near holes and drop-offs.

Do not drive the machine on or near uneven terrain, unstable surfaces or other hazardous conditions with the jib boom or the secondary boom raised.



Do not push off or pull toward any object outside of the platform.

Maximum allowable side force - ANSI & CSA
150 lbs / 667 N

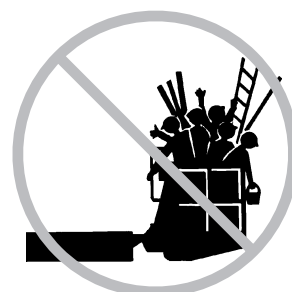
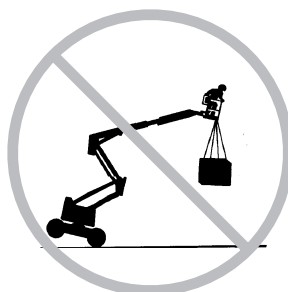
Maximum allowable side force - CE
90 lbs / 400 N

Do not alter or disable machine components that in any way affect safety and stability.

Do not replace items critical to machine stability with items of different weight or specification.

Do not modify or alter an aerial work platform. Mounting attachments for holding tools or other materials onto the platform, toeboards or guard rail system can increase the weight in the platform and the surface area of the platform or the load.

Do not place or attach overhanging loads to any part of this machine.



Do not place ladders or scaffolds in the platform or against any part of this machine.

Do not use the machine on a moving or mobile surface or vehicle.

SAFETY RULES

Be sure all tires are in good condition, castle nuts are properly tightened and cotter pins are properly installed.

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh at least 65 lbs / 29.4 kg. Each battery box including 4 batteries must weigh a minimum of 340 lbs / 154.2 kg.

Do not use the machine as a crane.

Do not push the machine or other objects with the boom.

Do not contact adjacent structures with the boom.

Do not tie the boom or platform to adjacent structures.

Do not place loads outside the platform perimeter.

Do not operate the machine with the chassis trays open.

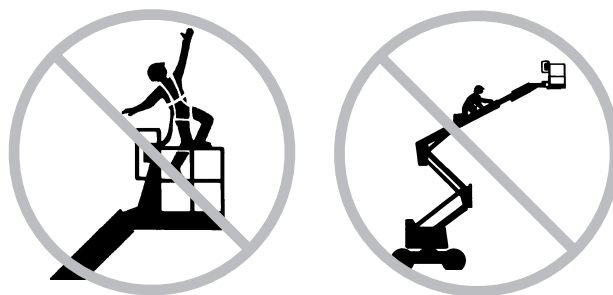
Do not release the brakes with the manual brake release unless the machine is on a firm, level surface or secured.

Fall Hazards



Occupants must wear a safety belt or harness and comply with applicable governmental regulations. Attach lanyard to the anchor provided in the platform.

Do not sit, stand or climb on the platform guard rails. Maintain a firm footing on the platform floor at all times.



Do not climb down from the platform when raised.

Keep the platform floor clear of debris.

Lower the platform entry mid-rail or close the entry gate before operating.

SAFETY RULES

Collision Hazards

Be aware of limited sight distance and blind spots when driving or operating.

Be aware of the platform position when rotating the jib boom.

The machine must be on a level surface or secured before releasing the brakes.

Check the work area for overhead obstructions or other possible hazards.

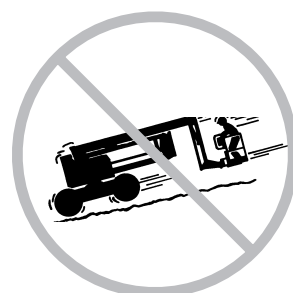


Be aware of crushing hazards when grasping the platform guard rail.

It is recommended that operators wear an approved hard hat when operating the machine.

Observe and use the color-coded direction arrows on the platform controls and drive chassis for drive and steer functions.

Do not lower the platform unless the area below is clear of personnel and obstructions.



Limit travel speed according to condition of ground surface, congestion, slope, location of personnel, and any other factors which may cause collision.

Do not operate a machine in the path of any crane or moving overhead machinery unless the controls of the crane have been locked out and/or precautions have been taken to prevent any potential collision.

Component Damage Hazard

Do not use the machine as a ground for welding.

Bodily Injury Hazard

Do not operate the machine with a hydraulic oil or air leak. An air leak or hydraulic oil leak can penetrate and/or burn skin.

SAFETY RULES

Damaged Machine Hazards

Do not use a damaged or malfunctioning machine.

Conduct a thorough pre-operation inspection of the machine and test all functions before each work shift. Immediately tag and remove from service a damaged or malfunctioning machine.

Be sure all maintenance has been performed as specified in this manual and the *Genie Z-20/8N & Genie Z-20/8 & Genie Z-25/8 Service Manual*.

Be sure all decals are in place and legible.

Be sure the operator's, safety and responsibilities manuals are complete, legible and in the storage container located on the platform.

Decal Legend

Genie product decals use symbols, color coding and signal words to identify the following:



Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

▲ DANGER

Red—used to indicate the presence of an imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲ WARNING

Orange—used to indicate the presence of a potentially hazardous situation which, if not avoided, could result in death or serious injury.

▲ CAUTION

Yellow with safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.

CAUTION

Yellow without safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE

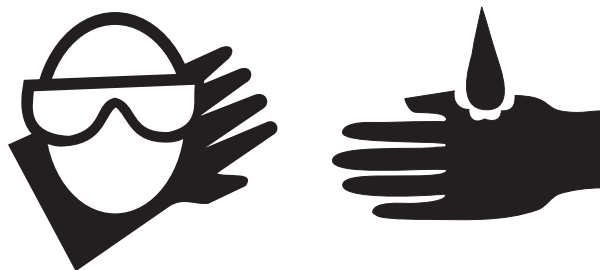
Green—used to indicate operation or maintenance information.

SAFETY RULES

Battery Safety

Burn Hazards

Batteries contain acid. Always wear protective clothing and eyewear when working with batteries.



Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

Do not expose the batteries or the charger to water or rain.

Explosion Hazards



Keep sparks, flames and lighted tobacco away from batteries. Batteries emit an explosive gas.

The battery tray should remain open during the entire charging cycle.

Do not contact the battery terminals or the cable clamps with tools that may cause sparks.

Component Damage Hazards

Do not use any battery charger greater than 48V to charge the batteries.

Disconnect the battery pack plug before removing the battery pack.

Electrocution Hazards



Connect the battery charger to a grounded, AC 3-wire electrical outlet only.

Inspect daily for damaged cord, cables and wires. Replace damaged items before operating.

Avoid electrical shock from contact with battery terminals. Remove all rings, watches and other jewelry.

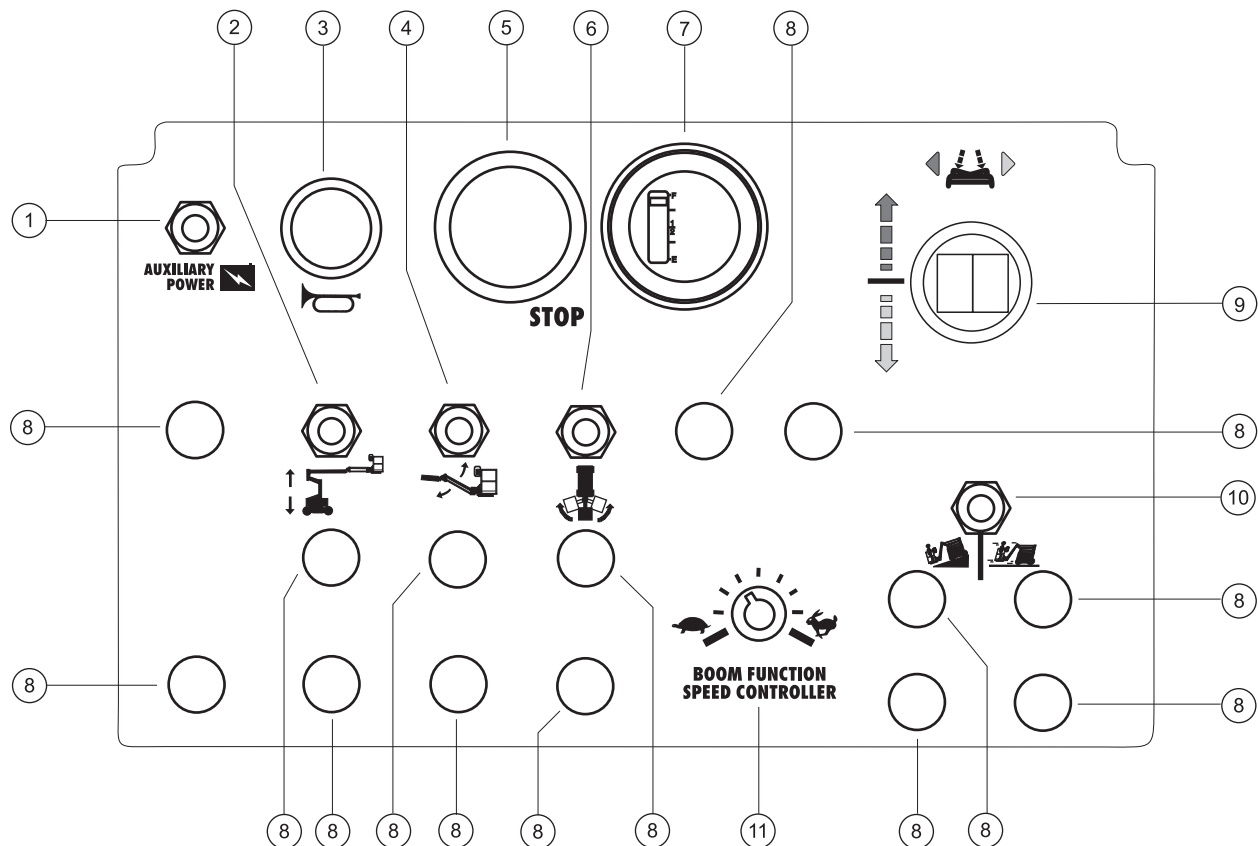
Tip-over Hazard

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh at least 65 lbs / 29.4 kg. Each battery box including 4 batteries must weigh a minimum of 340 lbs / 154.2 kg.

Lifting Hazard

Use a forklift to remove or install the battery pack(s).

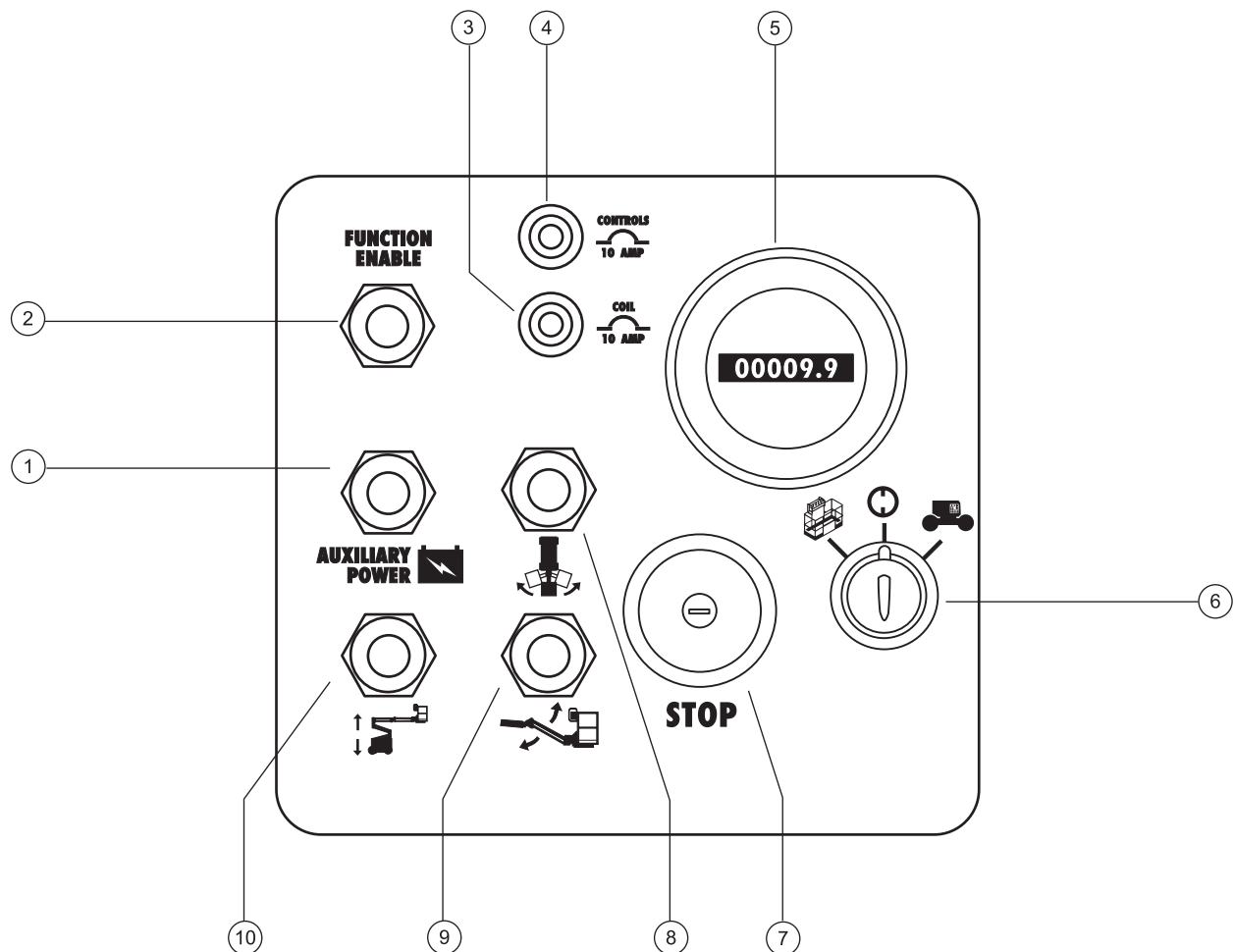
Controls



Platform Control Panel

- | | |
|---------------------------------|--|
| 1 Auxiliary power switch | 7 Battery charge indicator (option) |
| 2 Secondary boom up/down switch | 8 Not used |
| 3 Horn button | 9 Proportional control handle for drive function and thumb rocker for steer function |
| 4 Jib boom up/down switch | 10 Drive speed select switch |
| 5 Emergency Stop button | 11 Boom function speed controller |
| 6 Jib boom rotate switch | |

CONTROLS

**Ground Control Panel**

- | | | | |
|---|----------------------------------|----|--|
| 1 | Auxiliary power switch | 6 | Key switch for platform/off/ground selection |
| 2 | Function enable switch | 7 | Emergency Stop button |
| 3 | 10A breaker for coil circuits | 8 | Jib boom rotate switch |
| 4 | 10A breaker for control circuits | 9 | Jib boom up/down switch |
| 5 | Hour meter | 10 | Boom up/down switch |

Pre-operation Inspection



Do Not Operate Unless:

- ☑ You learn and practice the principles of safe machine operation contained in this operator's manual.

1 Avoid hazardous situations.

2 Always perform a pre-operation inspection.

Know and understand the pre-operation inspection before going on to the next section.

3 Always perform function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.

Fundamentals

It is the responsibility of the operator to perform a Pre-operation Inspection and routine maintenance.

The Pre-operation Inspection is a visual inspection performed by the operator prior to each work shift. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests.

The Pre-operation inspection also serves to determine if routine maintenance procedures are required. Only routine maintenance items specified in this manual may be performed by the operator.

Refer to the list on the next page and check each of the items and locations for modifications, damage or loose or missing parts.

A damaged or modified machine must never be used. If damage or any variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications. After repairs are completed, the operator must perform a pre-operation inspection again before going on to the function tests.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications and the requirements listed in the responsibilities manual.

PRE-OPERATION INSPECTION

Pre-operation Inspection

- ☐ Be sure that the operator's, safety and responsibilities manuals are complete, legible and in the storage container located on the platform.
- ☐ Be sure that all decals are legible and in place. See Decals section.
- ☐ Check for hydraulic oil leaks and proper oil level. Add oil if needed. See Maintenance section.
- ☐ Check for battery fluid leaks and proper fluid level. Add distilled water if needed. See Maintenance section.
- ☐ Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.
- ☐ Be sure that the chassis trays are in place, latched and properly connected.

Check the following components or areas for damage, modifications and improperly installed or missing parts:

- ☐ Electrical components, wiring and electrical cables
- ☐ Hydraulic power unit, tank, hoses, fittings, cylinders and manifolds
- ☐ Drive motors
- ☐ Boom wear pads
- ☐ Tires and wheels
- ☐ Limit switch, alarms and horn
- ☐ Nuts, bolts and other fasteners
- ☐ Platform entry mid-rail/gate
- ☐ Beacon and alarms (if equipped)
- ☐ Brake release components

Check entire machine for:

- ☐ Cracks in welds or structural components
- ☐ Dents or damage to machine

Maintenance



Observe and Obey:

- ☑ Only routine maintenance items specified in this manual shall be performed by the operator.
- ☑ Scheduled maintenance inspections shall be completed by qualified service technicians, according to the manufacturer's specifications and the requirements specified in the responsibilities manual.

Maintenance Symbols Legend

NOTICE

The following symbols have been used in this manual to help communicate the intent of the instructions. When one or more of the symbols appear at the beginning of a maintenance procedure, it conveys the meaning below.



Indicates that tools will be required to perform this procedure.



Indicates that new parts will be required to perform this procedure.

Check the Hydraulic Oil Level



Maintaining the hydraulic oil at the proper level is essential to machine operation. Improper hydraulic oil levels can damage hydraulic components. Daily checks allow the inspector to identify changes in oil level that might indicate the presence of hydraulic system problems.

- 1 Be sure the boom is in the stowed position.
 - 2 Check the hydraulic oil filler cap/dipstick, located at the top of the hydraulic tank.
- ⦿ Result: The hydraulic oil level should be at the FULL mark.

Hydraulic oil specifications

Hydraulic oil type	Dexron equivalent
--------------------	-------------------

MAINTENANCE

Check the Batteries



Proper battery condition is essential to good engine performance and operational safety. Improper fluid levels or damaged cables and connections can result in engine component damage and hazardous conditions.

⚠ WARNING Electrocution hazard. Contact with hot or live circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

⚠ WARNING Bodily injury hazard. Batteries contain acid. Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

NOTICE Perform this test after fully charging the batteries.

- 1 Put on protective clothing and eye wear.
- 2 Be sure that the battery cable connections are tight and free of corrosion.
- 3 Remove the battery vent caps.
- 4 Check the battery acid level. If needed, replenish with distilled water to the bottom of the battery fill tube. Do not overfill.
- 5 Install the vent caps.

Scheduled Maintenance

Maintenance performed quarterly, annually and every two years must be completed by a person trained and qualified to perform maintenance on this machine according to the procedures found in the service manual for this machine.

Machines that have been out of service for more than three months must receive the quarterly inspection before they are put back into service.

Function Tests



Do Not Operate Unless:

- ☑ You learn and practice the principles of safe machine operation contained in this operator's manual.

1 Avoid hazardous situations.

2 Always perform a pre-operation inspection.

3 Always perform function tests prior to use.

Know and understand the function tests before going on to the next section.

4 Inspect the work place.

5 Only use the machine as it was intended.

Fundamentals

The Function Tests are designed to discover any malfunctions before the machine is put into service. The operator must follow the step-by-step instructions to test all machine functions.

A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service. Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service.

- 1 Select a test area that is firm, level and free of obstruction.
- 2 Be sure both battery connectors are connected.

At the Ground Controls

- 3 Turn the key switch to ground control.
- 4 Pull out the red Emergency Stop button to the on position.
- ⦿ Result: The beacon (if equipped) should flash.

Test Emergency Stop

- 5 Push in the red Emergency Stop button to the off position.
- ⦿ Result: No ground or platform control functions should operate.
- 6 Pull out the red Emergency Stop button to the on position.

Test the Boom Functions

- 7 Do not hold the function enable switch to either side. Attempt to activate each boom and platform function toggle switch.
- ⦿ Result: No boom or platform functions should operate.
- 8 Hold the function enable switch to either side and activate each boom and platform function toggle switch.
- ⦿ Result: All boom and platform functions should operate through a full cycle. The descent alarm (if equipped) should sound while the boom is lowering.

FUNCTION TESTS

Test Auxiliary Controls

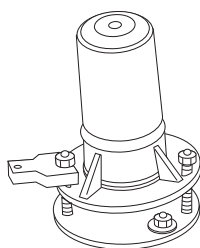
- 9 Turn the key switch to ground control.
- 10 Simultaneously hold the auxiliary power switch on and activate each boom function toggle switch.

Note: To conserve battery power, test each function through a partial cycle.

- ⦿ Result: All boom functions should operate.

Test the Tilt Sensor

- 11 Pull out the platform red Emergency Stop button to the on position.
- 12 Fully lower the platform.
- 13 Locate the tilt sensor on the chassis under the boom.
- 14 Press down one side of the tilt sensor and place the tilt sensor test tool under one of the posts.



- ⦿ Result: The alarm, located in the platform, should sound.
- 15 Raise the secondary boom.
 - ⦿ Result: The secondary boom should stop raising when the bottom of the platform is approximately 6 feet / 1.8 m from the ground
 - 16 Test all ground control functions.
 - ⦿ Result: The up function should not operate. The jib rotation function should not operate. The down function should operate.
 - 17 Fully lower the platform.
 - 18 Turn the key switch to platform control. Do not remove the tilt sensor test tool.

At the Platform Controls**Test the Tilt Sensor**

- 19 Move the lift/drive select switch to the lift position (if equipped).
- 20 Raise the secondary boom.
- ⦿ Result: The secondary boom should stop raising when the bottom of the platform is approximately 6 feet / 1.8 m from the ground.
- 21 Test all boom functions.
- ⦿ Result: The up function should not operate. The jib rotation function should not operate. The down function should operate.
- 22 Move the lift/drive select switch to the drive position (if equipped).
- 23 Test the drive functions.
- ⦿ Result: The drive functions should not operate.
- 24 Move the lift/drive select switch to the lift position (if equipped).
- 25 Lower the boom and remove the tilt sensor test tool.

Test Emergency Stop

- 26 Push in the platform red Emergency Stop button to the off position.
- ⦿ Result: No platform control functions should operate.

Test the Horn

- 27 Pull out the red Emergency Stop button to the on position.
- 28 Push the horn button.
- ⦿ Result: The horn should sound.

FUNCTION TESTS

Test the Foot Switch

- 29 Move the lift/drive select switch to the appropriate position (if equipped).
- 30 Do not press down the foot switch. Activate each machine function.
- ⦿ Result: No machine functions should operate.

Test Machine Functions

- 31 Move the lift/drive select switch to the lift position (if equipped).
- 32 Press down the foot switch.
- 33 Activate each machine function control handle or toggle switch.
- ⦿ Result: All boom and platform functions should operate through a full cycle.

Note: Control the speed of boom functions by adjusting the boom function speed controller. Platform, drive and steer functions are not affected by the boom function speed controller.

Test the Steering

- 34 Move the lift/drive select switch to the drive position (if equipped).
- 35 Press down the foot switch.
- 36 Depress the thumb rocker switch on top of the drive control handle in the direction identified by the blue triangle on the control panel.
- ⦿ Result: The steer wheels should turn in the direction that the blue triangle points on the control panel.

- 37 Depress the thumb rocker switch in the direction identified by the yellow triangle on the control panel.

- ⦿ Result: The steer wheels should turn in the direction that the yellow triangle points on the control panel.

Test Drive and Braking

- 38 Press down the foot switch.
- 39 Slowly move the drive control handle in the direction indicated by the blue arrow on the control panel until the machine begins to move, then return the handle to the center position.
- ⦿ Result: The machine should move in the direction that the blue arrow points on the drive chassis, then come to an abrupt stop.
- 40 Slowly move the drive control handle in the direction indicated by the yellow arrow on the control panel until the machine begins to move, then return the handle to the center position.
- ⦿ Result: The machine should move in the direction that the yellow arrow points on the drive chassis, then come to an abrupt stop.

Note: The brakes must be able to hold the machine on any slope it is able to climb.

FUNCTION TESTS

Test Limited Drive Speed

- 41 Move the lift/drive select switch to the lift position (if equipped).
- 42 Press down the foot switch.
- 43 Fully lower the platform.
- 44 Raise the secondary boom until the platform clears the counterweights.
- 45 Move the lift/drive select switch to the drive position (if equipped).
- 46 Slowly move the drive control handle to the full drive position.
- ⦿ Result: The maximum achievable drive speed with the secondary boom raised should not exceed 1 foot / 30 cm per second.

If the drive speed with the secondary boom raised exceeds 1 foot / 30 cm per second, immediately tag and remove the machine from service.

Test Auxiliary Controls

- 47 Move the lift/drive select switch to the appropriate position (if equipped).
- 48 Press down the foot switch.
- 49 Simultaneously hold the auxiliary power switch on and activate each function control handle or toggle switch.

Note: To conserve battery power, test each function through a partial cycle.

- ⦿ Result: All boom, steer and drive functions should operate.

Test the Lift/Drive Select Function (CE models)**Machines with lift/drive select switch:**

- 50 Move the lift/drive select switch to the lift position.
- 51 Press down the foot switch.
- 52 Move the drive control handle off center.
- ⦿ Result: No drive functions should operate.
- 53 Activate each boom function toggle switch.
- ⦿ Result: All boom functions should operate.
- 54 Move the lift/drive select switch to the drive position.
- 55 Press down the foot switch.
- 56 Activate each boom function toggle switch.
- ⦿ Result: No boom functions should operate.
- 57 Move the drive control handle off center.
- ⦿ Result: The drive functions should operate.
- 58 Repair any malfunctions before operating the machine.

Machines without lift/drive select switch:

- 59 Press down the foot switch.
- 60 Move the drive control handle off center and activate a boom function toggle switch.
- ⦿ Result: No boom functions should operate. The machine will move in the direction indicated on the control panel.
- 61 Repair any malfunctions before operating the machine.

Workplace Inspection



Do Not Operate Unless:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's manual.

- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.

4 Inspect the workplace.

Know and understand the workplace inspection before going on to the next section.

- 5 Only use the machine as it was intended.

Workplace Inspection

Be aware of and avoid the following hazardous situations:

- drop-offs or holes
- bumps, floor obstructions or debris
- overhead obstructions and high voltage conductors
- hazardous locations
- inadequate surface support to withstand all load forces imposed by the machine
- wind and weather conditions
- the presence of unauthorized personnel
- other possible unsafe conditions

Fundamentals

The Workplace Inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace.

It is the operator's responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up and operating the machine.

Operating Instructions



Do Not Operate Unless:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's manual.
 - 1 Avoid hazardous situations.
 - 2 Always perform a pre-operation inspection.
 - 3 Always perform function tests prior to use.
 - 4 Inspect the workplace.
 - 5 **Only use the machine as it was intended.**

Fundamentals

The Operating Instructions section provides instructions for each aspect of machine operation. It is the operator's responsibility to follow all the safety rules and instructions in the operator's, safety and responsibilities manuals.

Using the machine for anything other than lifting personnel and tools to an aerial work site is unsafe and dangerous.

Only trained and authorized personnel should be permitted to operate a machine. If more than one operator is expected to use a machine at different times in the same work shift, they must all be qualified operators and are all expected to follow all safety rules and instructions in the operator's, safety and responsibilities manuals. That means every new operator should perform a pre-operation inspection, function tests, and a work place inspection before using the machine.

Emergency Stop

Push in the red Emergency Stop button to the off position to stop all ground and platform control functions.

Repair any function that operates from the ground or platform controls when the Emergency Stop button at the ground controls is pushed in.

Repair any function that operates from the platform when the Emergency Stop button at the platform controls is pushed in.

Selecting and operating the ground controls will override the platform Emergency Stop button.

OPERATING INSTRUCTIONS

Auxiliary Controls

Use auxiliary power if the primary power source fails.

- 1 Turn the key switch to ground or platform control.
- 2 Pull out the red Emergency Stop button to the on position.
- 3 Be sure that both battery packs are connected before operating the machine.
- 4 Press down the foot switch when operating the auxiliary controls from the platform.
- 5 Move the lift/drive select switch to the appropriate position (if equipped) when operating the auxiliary controls from the platform.
- 6 Simultaneously hold the auxiliary power switch on and activate the desired function.

Note: The boom, steer and drive functions will operate with auxiliary power.

Operation from Ground

- 1 Be sure that both battery packs are connected before operating the machine.
- 2 Turn the key switch to ground control.
- 3 Pull out the red Emergency Stop button to the on position.

To Position Platform

- 1 Hold the function enable switch to either side.
- 2 Move the appropriate toggle switch according to markings on the control panel.

Note: Drive and steer functions and boom function speed control are not available from the ground controls.

Operation from Platform

- 1 Be sure that both battery packs are connected before operating the machine.
- 2 Turn the key switch to platform control.
- 3 Pull out both ground and platform red Emergency Stop buttons to the on position.

To Position Platform

- 1 Set the boom function speed controller to the desired speed.
- 2 Move the lift/drive select switch to the lift position (if equipped).
- 3 Press down the foot switch.
- 4 Move the appropriate toggle switch according to the markings on the control panel.

Note: Platform, drive and steer functions are not affected by the boom function speed controller.

To Steer

- 1 Move the lift/drive select switch to the drive position (if equipped).
- 2 Press down the foot switch.
- 3 Turn the steering wheels with the thumb rocker switch located on top of the drive control handle.

Use the color-coded direction arrows on the platform controls and the chassis to identify the direction the wheels will turn.

OPERATING INSTRUCTIONS

To Drive

- 1 Move the lift/drive select switch to the drive position (if equipped).
- 2 Press down the foot switch.
- 3 Increase speed: Slowly move the drive control handle off center.
Decrease speed: Slowly move the drive control handle toward center.
Stop: Return the drive control handle to center or release the foot switch.

Use the color-coded direction arrows on the platform controls and the chassis to identify the direction the machine will travel.

Machine travel speed is restricted when the secondary boom is raised.

Battery condition will affect machine performance.

Drive Speed Select

- Machine on incline symbol: Low range operation for inclines
- Machine on level surface symbol: High range operation for maximum drive speed

Low Voltage Interrupt

Light on indicates that the battery charge is almost gone and the boom up function will not work. The batteries need to be charged.

After Each Use

- 1 Select a safe parking location—firm level surface, clear of obstruction and traffic.
- 2 Lower the boom to the stowed position.
- 3 Turn the key switch to the off position and remove the key to secure from unauthorized use.
- 4 Chock the wheels.
- 5 Charge the batteries.

OPERATING INSTRUCTIONS

**Battery and Charger Instructions****Observe and Obey:**

- ☒ Do not use an external charger or booster battery.
- ☒ Charge the battery in a well-ventilated area.
- ☒ Use proper AC input voltage for charging as indicated on the charger.
- ☒ Use only Genie authorized battery and charger.

To Charge Battery

- 1 Be sure the batteries are connected before charging the batteries.
- 2 Open the battery compartment. The compartment should remain open for the entire charging cycle.
- 3 Remove the battery vent caps and check the battery acid level. If necessary, add only enough distilled water to cover the plates. Do not overfill prior to the charge cycle.
- 4 Replace the battery vent caps.
- 5 Connect the battery charger to a grounded AC circuit.
- 6 Turn the battery charger on.
- 7 The charger will indicate when the battery is fully charged.
- 8 Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

Dry Battery Filling and Charging Instructions

- 1 Remove the battery vent caps and permanently remove the plastic seal from the battery vent openings.
- 2 Fill each cell with battery acid (electrolyte) until the level is sufficient to cover the plates.

Do not fill to maximum level until the battery charge cycle is complete. Overfilling can cause the battery acid to overflow during charging. Neutralize battery acid spills with baking soda and water.

- 3 Install the battery vent caps.
- 4 Charge the battery.
- 5 Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

Transport Instructions



Observe and Obey:

- ☑ Common sense and planning must be applied to control the movement of the machine when lifting it with a crane or forklift.
- ☑ The transport vehicle must be parked on a level surface.
- ☑ The transport vehicle must be secured to prevent rolling while the machine is being loaded.
- ☑ Be sure the vehicle capacity, loading surfaces and chains or straps are sufficient to withstand the machine weight. See the serial plate for the machine weight.
- ☑ The machine must be on a level surface or secured before releasing the brakes.

Securing to Truck or Trailer for Transit

Always chock the machine wheels in preparation for transport.

Use the tie points on the drive chassis for anchoring down to the transport surface.

Use the lower platform mount between the boom end and the platform to secure the boom from side-to-side movement. Do not use excessive downward force when securing the boom section.

Use chains or straps of ample load capacity.

Turn the key switch to the off position and remove the key before transporting.

Inspect the entire machine for loose or unsecured items.

Brake Release Operation

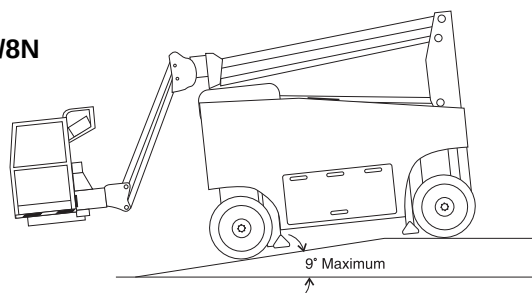
- 1 Chock the wheels to prevent the machine from rolling.
- 2 Be sure the winch line is properly secured to the drive chassis tie points and the path is clear of all obstructions.
- 3 Turn the brake release knob counterclockwise to open the brake valve.
- 4 Pump the brake release pump knob approximately 20 times until resistance is felt. The brakes are now released.

After the machine is loaded:

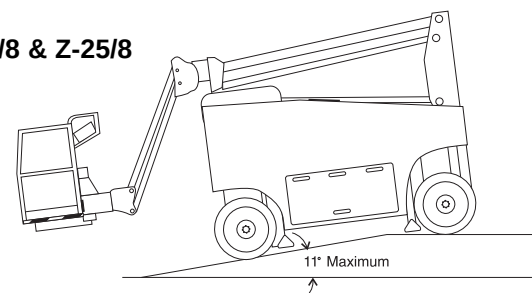
- 1 Chock the wheels to prevent the machine from rolling.
- 2 Turn the brake release knob clockwise to reset the brakes.

Due to the low ground clearance of the machine, the maximum break-over angle for loading and unloading is shown for each model.

Z-20/8N



Z-20/8 & Z-25/8



Decals

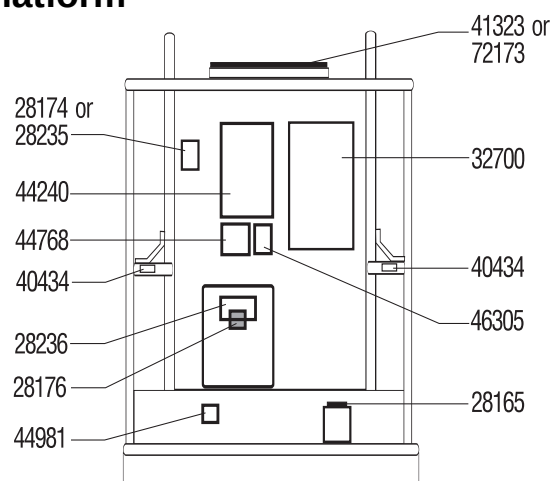
Decal Inspection

Use the pictures on this and the next page to verify that all decals are legible and in place.

Below is a numerical list with quantities and descriptions.

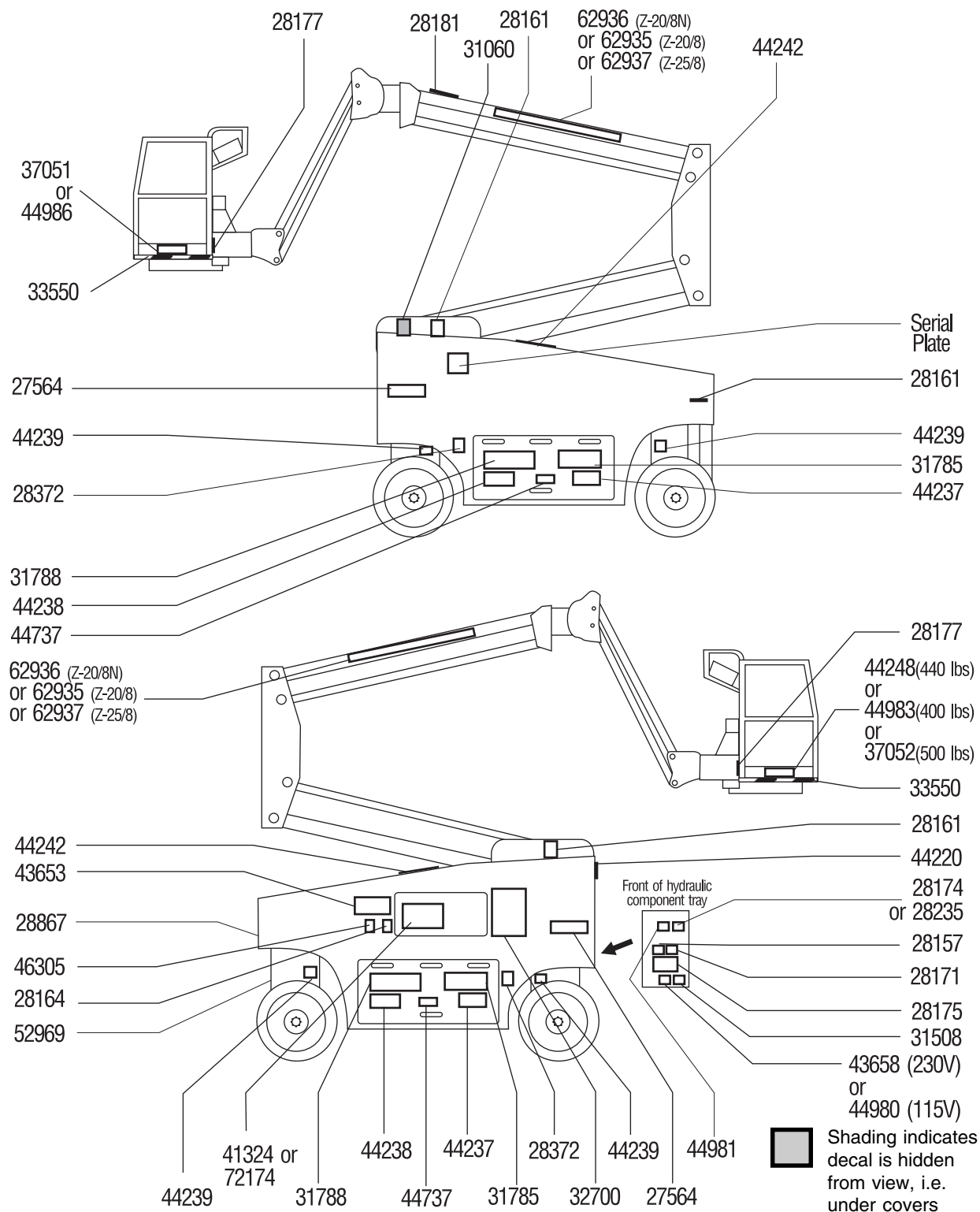
Part No.	Description	Quantity
27564	Danger - Electrocution Hazard	2
28157	Label - Dexron	1
28161	Warning - Crush Hand	3
28164	Notice - Hazardous Materials	1
28165	Notice - Foot Switch	1
28171	Label - No Smoking	1
28174	Power to Platform, 230V	2
28175	Caution - Compartment Access	1
28176	Notice - Missing Manuals	1
28177	Warning - Platform Rotate	2
28181	Warning - No Step Or Ride	1
28235	Power to Platform, 115V	2
28236	Warning - Failure To Read . . .	1
28372	Caution - Component Damage	2
31060	Danger - Do Not Alter Limit Switch	1
31508	Notice - Power to Battery Charger	1
31785	Notice - Battery Charger Operating Instructions	2
31788	Danger - Battery/Charger Safety	2
32700	Danger - General Safety Rules	2
37051	Notice - Maximum Side Force, 150 lbs	1
37052	Notice - Max Load 500 lbs, Z-20/8 & Z-25/8	1
40434	Label - Lanyard Anchorage	2
41323	Platform Control Panel	1
41324	Ground Control Panel	1
43653	Notice - Operating Instructions - Ground	1
43658	Label - Power to Charger, 230V	1

Platform



Part No.	Description	Quantity
44220	Notice - Brake Release Instructions	1
44238	Danger - Tip-over (batteries)	2
44239	Notice - Tire Specifications	4
44237	Battery Connection Diagram	2
44240	Notice - Operating Instructions - Platform	1
44242	Label - 2 Directional Arrows	2
44248	Notice - Max Load 440 lbs, Z-20/8N	1
44737	Danger - Tipover, Trays	2
44768	Danger - Tilt Alarm	1
44980	Label - Power to Charger, 115V	1
44981	Airline to Platform	2
44983	Notice - Max Load 400 lbs, Z-20/8N	1
44986	Notice - Max Manual Force 90 lbs	1
46305	Warning - Crushing Hazard	2
52969	Cosmetic - Genie Boom	1
62935	Cosmetic - Genie Z-20/8	2
62936	Cosmetic - Genie Z-20/8N	2
62937	Cosmetic - Genie Z-25/8	2
72173	Platform Control Panel	1
72174	Ground Control Panel	1

DECALS



Specifications

Z-20/8N

Height, working maximum	26 ft	7.9 m
Height, platform maximum	20 ft	6.1 m
Height, stowed maximum	6 ft 7 in	2.01 m
Horizontal reach maximum	8 ft 8 in	2.6 m
Width	32 in	81.3 cm
Length, stowed	12 ft 4 in	3.76 m
Maximum load capacity		
ANSI & CSA	400 lbs	181 kg
CE	440 lbs	200 kg
Wheelbase	5 ft 4 in	1.63 m
Turning radius (outside)	4 ft 9 in	1.4 m
Turning radius (inside)	10 in	25.4 cm
Ground clearance	1.625 in	4.1 cm
Jib boom rotation (degrees)		180°
Power source	8 6V 255AH batteries	

Drive speeds (maximum)

Boom stowed	2.6 mph 40 ft/10.5 sec	4.2 km/h 12.2 m/10.5 sec
Boom raised or extended	0.6 mph 40 ft/40 sec	1.0 km/h 12.2 m/40 sec
Gradeability (boom stowed)		18%
Controls	24V DC proportional	
Platform dimensions, (length x width)	31 x 40 in 78.7 cm x 1.01 m	
AC outlet in platform	standard	
Hydraulic pressure (maximum) (boom functions)	3500 psi 241 bar	
Weight (Machine weights vary with option configurations)	See Serial Plate	
Airborne noise emissions Maximum sound level at normal operating workstations (A-weighted)	67 dB	

Z-20/8

Height, working maximum	26 ft	7.9 m
Height, platform maximum	20 ft	6.1 m
Height, stowed maximum	6 ft 7 in	2.01 m
Horizontal reach maximum	7 ft 11 in	2.4 m
Width	46 in	2.9 cm
Length, stowed	11 ft 9 in	3.58 m
Maximum load capacity	500 lbs	227 kg
Wheelbase	5 ft 4 in	1.63 m
Turning radius (outside)	6 ft 4 in	1.9 m
Turning radius (inside)	11 in	28 cm
Ground clearance	2 in	5 cm
Jib boom rotation (degrees)		180°
Power source	8 6V 255AH batteries	

Drive speeds (maximum)

Boom stowed	2.7 mph 40 ft/10.1 sec	4.3 km/h 12.2 m/10.1 sec
Boom raised or extended	0.6 mph 40 ft/40 sec	1.0 km/h 12.2 m/40 sec
Gradeability (boom stowed)		20%
Controls	24V DC proportional	
Platform dimensions, (length x width)	46 x 30 in 2.9 m x 76 cm	
AC outlet in platform	standard	
Hydraulic pressure (maximum) (boom functions)	3500 psi 241 bar	
Weight (Machine weights vary with option configurations)	See Serial Plate	
Airborne noise emissions Maximum sound level at normal operating workstations (A-weighted)	67 dB	

Continuous improvement of our products is a Genie policy. Product specifications are subject to change without notice or obligation.

SPECIFICATIONS

Z-25/8

Height, working maximum	31 ft	9.5 m
Height, platform maximum	25 ft	7.6 m
Height, stowed maximum	6 ft 7 in	2.01 m
Horizontal reach maximum	7 ft 11 in	2.4 m
Width	46 in	2.9 m
Length, stowed	16 ft	4.9 m
Maximum load capacity	500 lbs	227 kg
Wheelbase	5 ft 4 in	1.6 m
Turning radius (outside)	6 ft 4 in	1.9 m
Turning radius (inside)	11 in	28 cm
Ground clearance	2 in	5 cm
Jib boom rotation (degrees)		180°
Power source	8 6V 255AH batteries	
Tail swing	18 in	45.7 cm
Nose swing	4 ft 10 in	1.5 m

Drive speeds (maximum)

Boom stowed	2.7 mph 40 ft/10.1 sec	4.3 km/h 12.2 m/10.1 sec
Boom raised or extended	0.6 mph 40 ft/40 sec	1.0 km/h 12.2 m/40 sec
Gradeability (boom stowed)		20%
Controls	24V DC proportional	
Platform dimensions, (length x width)	46 x 30 in 2.9 m x 76 cm	
AC outlet in platform	standard	
Hydraulic pressure (maximum) (boom functions)	3500 psi 241 bar	
Weight	See Serial Plate (Machine weights vary with option configurations)	
Airborne noise emissions Maximum sound level at normal operating workstations (A-weighted)	67 dB	

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