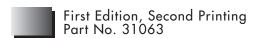
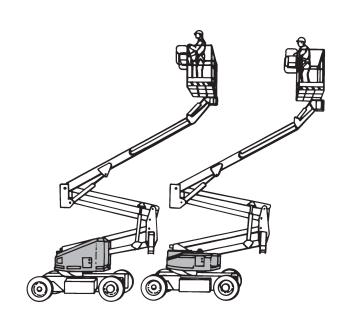


Genie Z-45/22

Operator's Manual

DC POWER BI-FUEL TRI-FUEL DIESEL GAS/LPG





Genîe Z-45/22

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. If you have any questions, call Genie Industries.

Contents

	Page
Safety Rules	1
Controls	6
Pre-operation Inspection & Function Tests	9
Operating Instructions	13
Maintenance Inspection	16
Transport Instructions	18
Decals - DC Power Models	19
Decals - Tri-fuel and Gasoline/LPG Models	22
Decals - Bi-fuel and Diesel Models	25
Specifications	28

Verify Correct Manual

This operator's manual covers the Genie Z-45/22 models with the following power options introduced in 1993:

DC POWER BI-FUEL (Diesel/DC) TRI-FUEL (Gasoline/LPG/DC) DIESEL GAS/LPG

Look for the power option listed on the turntable cover or the serial number plate.

Genie North America

Telephone (206) 881-1800 Toll Free 800 536-1800 in U.S.A. Toll Free 800 426-8089 in Canada Fax (206) 883-3475

Genie Europe

Telephone (44) 01636-813943 Fax (44) 01636-815270

Genie.Industries

Copyright © 1993 by Genie Industries

First Edition:

First Printing February, 1993 Second Printing May, 1993

Genie® is a registered trademark of Genie Industries - Registered 2009987

Printed on recycled paper

Printed in U.S.A.

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 are trained to safely operate the machine.

✓ 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 inspect the entire machine for possible damage and test all machine functions for proper operation.



Do not use this operator's manual with the Genie Z-45/22 4WD and 2WD models introduced in 1991.

Compare turntable cover size and shape.

Do not read any further until you have verified that this is the correct operator's manual for this machine. See facing page. Contact Genie Industries if you have any questions.



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		imum Safe h Distance
Phase to Phase	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 use the machine as a ground for welding.

Tip-over Hazards

Occupants and equipment shall not exceed the maximum platform capacity.

Maximum platform capacity	500 lbs	227 kg
Maximum occupants		2





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



Do not raise the boom in strong or gusty winds.

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

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

Be sure all tires are in good condition and air-filled tires are properly inflated.

DC Power Models only: Batteries are used as counterweight and are critical to machine stability. Each battery must weigh 65 pounds (29.4 kg). Each battery box including batteries must weigh a minimum of 460 pounds (209 kg).

SAFETY RULES

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

Maximum allowable	150 lbs
side force	667 N





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

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 place or attach overhanging loads to any part of this machine.





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

Fall Hazards



Occupants must wear a safety belt or harness in accordance with governmental regulations. Attach lanyard to anchor provided in 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. If a power failure should occur, ground personnel should use the manual controls to lower platform.

Keep the platform floor clear of debris.

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

Explosion and Fire Hazards

Do not operate machine if you smell or detect liquid petroleum gas (LPG), gasoline, diesel fuel or other explosive substances.

Do not refuel machine with engine running.

Refuel machine and charge batteries only in an open, well-ventilated area away from sparks, flames and lighted tobacco.

Do not operate engine unless in a well-ventilated area to avoid carbon monoxide poisoning.

SAFETY RULES

Collision Hazards



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

Be aware of primary and secondary boom and platform position when rotating turntable.

Check work area for overhead obstructions or other possible hazards.





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

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

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





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

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

Component Damage Hazard

Do not use machine as a ground for welding.

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-45/22 Service Manual*.

Be sure all decals are in place and legible.

Be sure safety and operator's manuals are legible and in the storage box located on the platform.

Decal Legend

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



Red—used to indicate the presence of a hazard that **will** cause death or serious injury.



Orange—used to indicate the presence of a hazard that **may** cause death or serious injury.



Yellow—used to indicate the presence of a hazard that **will** or **may** cause serious personal injury or damage to the machine.



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.

Battery pack must remain in upright position.

Do not expose battery or charger to water and/or rain.

Explosion Hazards



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

The battery pack cover must remain off during charging.

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

Component Damage Hazards

Do not use any battery charger greater than 36V to charge batteries.

Both battery packs must be charged together.

Disconnect battery pack plug before removing battery pack.

Electrocution Hazards



Connect 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.

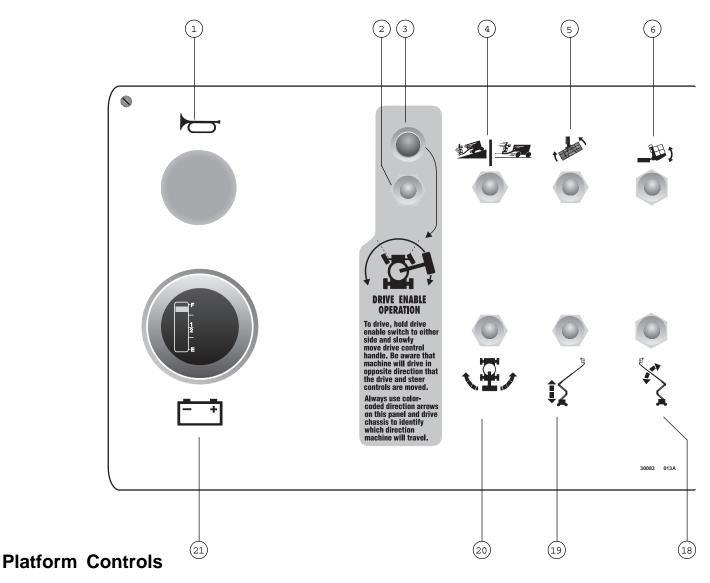
Tip-over Hazard

DC Power Models only: Batteries are used as counterweight and are critical to machine stability. Each battery must weigh 65 pounds (29.4 kg). Each battery box including batteries must weigh a minimum of 460 pounds (209 kg).

Lifting Hazard

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

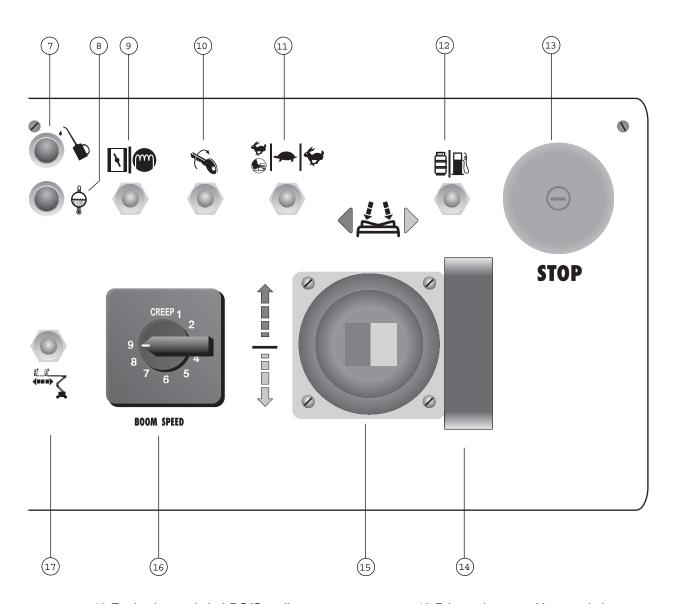
Controls



- 1 Service horn button
- 2 Drive enable switch
- 3 Drive enable indicator light
- 4 Drive select switch:
 - Machine on incline symbol: Low range operation for inclines
 - Machine on level surface symbol: High range operation for maximum drive speed
- 5 Platform rotate switch
- 6 Platform level switch

- 7 Low engine oil pressure indicator light
- 8 Engine overheat indicator light
- 9 Choke switch gasoline models only Glow plug switch - diesel models only
- 10 Engine start switch
- 11 Engine idle (rpm) select switch
 - Rabbit and foot switch symbol: foot switch activated high idle
 - Turtle symbol: low idle
 - Rabbit symbol: high idle

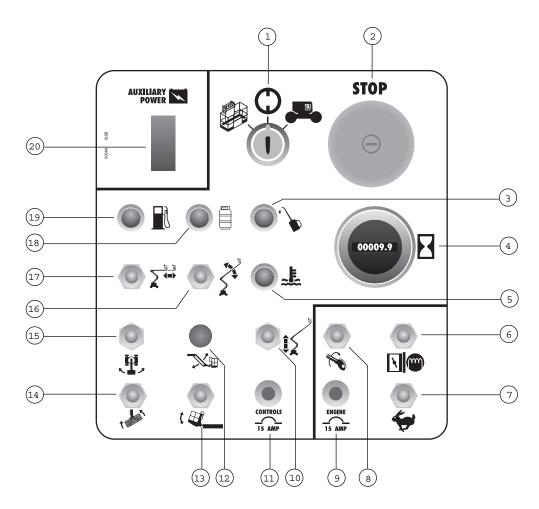
CONTROLS



- 12 Fuel select switch: LPG/Gasoline
- 13 Emergency Stop button
- 14 Wrist rest for drive control handle
- 15 Drive proportional control handle with steering thumb rocker switch
- 16 Boom function speed controller
- 17 Primary boom extend/retract switch

- 18 Primary boom up/down switch
- 19 Secondary boom up/down switch
- 20 Turntable rotate left/right switch
- 21 Battery level gauge
 - models with DC power only

CONTROLS



Ground Controls

- 1 Controls select key switch
- 2 Emergency Stop button
- 3 Low engine oil pressure indicator light
- 4 Hour meter (engine running only)
- 5 Engine coolant overheat indicator light
- 6 Choke switch gasoline models only Glow plug switch - diesel models only
- 7 Engine high idle (rpm) switch
- 8 Engine start switch
- 9 15A breaker for engine electrical circuits
- 10 Secondary boom up/down switch

- 11 15A breaker for control electrical circuits
- 12 not used
- 13 Platform level switch
- 14 Platform rotate switch
- 15 Turntable rotate left/right switch
- 16 Primary boom up/down switch
- 17 Primary boom extend/retract switch
- 18 Fuel selection indicator light, LPG gasoline/LPG models
- 19 Fuel selection indicator light, gasoline gasoline/LPG models
- 20 not used

Pre-operation Inspection & Function Tests



Observe and Obey:

- ☑ Conduct a thorough pre-operation inspection and function test before each work shift.
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- Repair any machine damage or malfunctions before operating machine.

Pre-operation Inspection

Be sure that all decals are legible and in place.

Be sure that operator's and safety manuals are legible and in the storage box located on the platform.

Check the engine oil, hydraulic oil, coolant and fuel levels.

Check for damage and improperly installed or missing parts:

- Electrical components, wiring and electrical cables
- Hydraulic power units, hoses, fittings, cylinders and manifolds
- · Fuel and hydraulic tanks
- · Drive and turntable motors and torque hubs
- · Boom wear pads
- · Dents or damage to machine
- · Tires and wheels
- · Engine and related components (if equipped)
- · Limit switches
- · Alarms, horn and beacon
- · Nuts. bolts and other fasteners
- · Platform entry mid-rail or gate
- · Cracks in welds or structural components
- Compartment covers are in place and secured
- DC models: Both battery packs are in place and properly connected.

Perform quarterly (or every 150 hours) and annual machine inspections. Keep records for three years. See the *Genie Z-45/22 Service Manual* for details.

PRE-OPERATION INSPECTION & FUNCTION TESTS

Function Tests

1 Select a test area that is firm, level and free of obstruction.

At the Ground Controls

- 2 Turn the key switch to ground control.
- 3 Pull out the red Emergency Stop button to the on position.
- Result: Beacon (if equipped) should flash.
- 4 Start the engine (if equipped). See *Starting The Engine*, page 13.

Test Emergency Stop

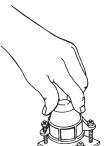
- 5 Push in the red Emergency Stop button to the OFF position.
- Result: Engine should turn off and all ground and platform control functions should not operate.
- 6 Pull out the red Emergency Stop button to the on position and restart the engine.

Test the Machine Functions

- 7 Turn boom function speed controller to "9".
- 8 Activate each boom and platform function toggle switch.
- Result: All boom and platform functions should operate through a full cycle. Descent alarm (if equipped) should sound while primary or secondary boom is being lowered.

Test the Tilt Sensor

- 9 Pull out the platform red Emergency Stop button to the on position. Turn the key switch to platform control.
- 10 Open the turntable cover on the engine side. Locate the tilt sensor next to the ground control box.
- 11 Press down one side of the tilt sensor.
- Result: The alarm, located in the platform, should sound.



At the Platform Controls

Test Emergency Stop

- 12 Restart the engine.
- 13 Push in the platform red Emergency Stop button to the OFF position.
- Result: The engine should turn off and all ground and platform control functions should not operate.

Test the Service Horn

- 14 Pull out the red Emergency Stop button to the on position but do not start the engine.
- 15 Push the service horn button.
- Result: The service horn should sound.

Test the Foot Switch

- 16 Press down the foot switch and attempt to start engine by moving the start toggle switch to either side.
- Result: The engine should not start.
- 17 Do not press down the foot switch and restart engine.
- 18 Do not press down the foot switch. Activate each machine function.
- Result: The machine functions should not operate.

PRE-OPERATION INSPECTION & FUNCTION TESTS

Test Machine Functions

- 19 Press down the foot switch.
- 20 Activate each boom function toggle switch.
- Result: All boom/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

- 21 Press down the foot switch.
- 22 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 triangles point on the drive chassis.
- 23 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 triangles point on the drive chassis.

Test Drive and Braking

- 24 Press down the foot switch.
- 25 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 control 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 a complete stop.
- 26 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 control 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 a complete stop.

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

Test the Drive Enable System

- 27 Press down the foot switch. Then lower the boom to the stowed position.
- 28 Rotate the turntable until the primary boom moves past one of the steering wheels (figure 1).
- Result: The drive enable indicator light should come on and remain on while the primary boom is anywhere in the range shown in figure 2.



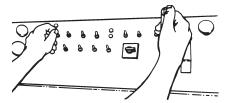
29 Move the drive control

handle off center.

• Result: The drive function should **not** operate.

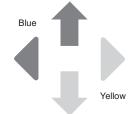
PRE-OPERATION INSPECTION & FUNCTION TESTS

30 Move and hold the drive enable toggle switch to either side and slowly move the drive control handle off center.



• Result: The drive function should operate.

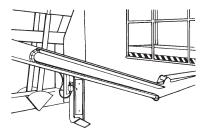
Note: When the drive enable system is in use, the machine will drive in the opposite direction that the drive and steer control handle is moved.



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

Test Limited Drive Speed

- 31 Press down the foot switch.
- 32 Raise the primary boom to just above the drive limit switch.



- 33 Move the drive select switch to high range and then slowly move the drive control handle to the full drive position.
- Result: The maximum achievable drive speed with the primary or secondary boom raised should not exceed 40 feet per 150 seconds (12.2 meters per 150 seconds). If the drive speed with the boom raised exceeds 40 feet per 150 seconds (12.2 meters per 150 seconds), immediately tag and remove the machine from service.

Any person working on or around a machine must be aware of all known safety hazards. Personal safety and the continued safe operation of the machine should be your number one priority.

Operating Instructions



Before Each Use:

- ☑ Read, understand and obey all safety rules (see *Safety Rules*, page 1).
- Conduct a thorough pre-operation inspection of the machine (see *Pre-operation Inspection*, page 9).
- ☑ Test all machine functions for proper operation (see *Function Tests*, page 10).
- Repair any machine damage or malfunctions before operating the machine.

Starting the Engine (if equipped)

- 1 At ground controls, turn key switch to desired position.
- 2 Be sure both ground and platform red Emergency Stop buttons are pulled out to the on position.
- 3 Gasoline/LPG equipped models: Choose fuel by moving fuel select switch at platform controls to desired position.
- 4 Move engine start toggle switch to either side. If engine fails to start or dies, the restart delay will disable start switch for 3 seconds.



Cold engine - Gasoline equipped models: Use choke switch during start and until engine is warm.

Cold engine - Diesel equipped models: move glow plug switch to pre-heat for 15 seconds before starting.

All models: In extreme cold conditions, 20°F (-6°C) and below, warm engine for 5 minutes to prevent hydraulic system damage.

If engine fails to start after 15 seconds of cranking, determine cause and repair any malfunction. Wait 60 seconds before trying to start again.

Emergency Stop

Push in either ground or platform red Emergency Stop button to the OFF position to stop all ground and platform control functions and turn engine off.

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

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

Operating manual controls will override ground and platform Emergency Stop buttons.

OPERATING INSTRUCTIONS

Operation from Ground

- 1 Turn key switch to ground control.
- 2 Pull out red Emergency Stop button to the ON position.
- 3 Start the engine (if equipped).

To Position Platform

1 Move appropriate toggle switch according to markings on control panel.

Drive and steer functions are not available from the ground controls.

Operation from Platform

- 1 Turn key switch to platform control.
- 2 Pull out both ground and platform red Emergency Stop buttons to the on position.
- 3 Start the engine (if equipped). Do not press down the foot switch when starting engine.

To Position Platform

 Set boom function speed controller to desired speed.

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

- 2 Press down the foot switch.
- 3 Move appropriate toggle switch according to markings on control panel.

To Steer

- 1 Press down foot switch.
- 2 Turn steering wheels with thumb rocker switch located on top of drive control handle.

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

To Drive

- 1 Press down foot switch.
- 2 Increase speed: Slowly move drive control handle off center.

Decrease speed: Slowly move drive control handle toward center.

Stop: Return drive control handle to center or release foot switch.

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

Machine travel speed is restricted when boom is raised.

Drive Enable

Light on indicates that primary boom has moved just past either steering wheel and drive function has been interrupted.

To drive, hold drive enable switch to either side and slowly move drive control handle off center.

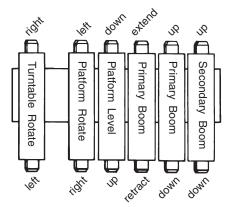
Be aware that machine will move in opposite direction that drive and steer controls are moved.

Always use color-coded direction arrows on platform controls and drive chassis to identify direction machine will travel.

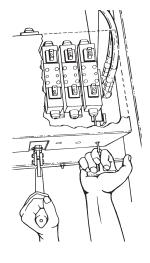
OPERATING INSTRUCTIONS

Manual Controls

All boom functions can be operated with the hand pump located on the turntable in front of the hydraulic manifold.

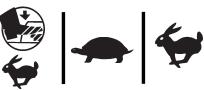


- Select a function and it's corresponding valve.
- 2 Manually open the valve by pushing in on the end of the valve spool with a T-handle.
- 3 Hold the valve in the open position and operate the hand pump with a push/pull motion.
- 4 Remove the T-handle from the valve spool to close the valve.



Engine Idle Select (rpm)

Select engine idle (rpm) using symbols on control panel.



- Rabbit and foot switch symbol: foot switch activated high idle
- Turtle symbol: low idle
- · Rabbit symbol: high idle

Stopping the Engine

Push in red Emergency Stop button and turn key switch to the OFF position.

After Each Use

- 1 Select a safe parking location-firm level surface, clear of obstruction and traffic.
- 2 Lower boom to stowed position.
- 3 Rotate turntable so that the boom is between the non-steering wheels.
- 4 Turn key switch to the OFF position and remove key to secure from unauthorized use.
- 5 Chock wheels.

Drive Range Select

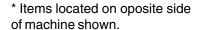


- Machine on incline symbol: Low range operation for inclines
- Machine on level surface symbol: High range operation for maximum drive speed

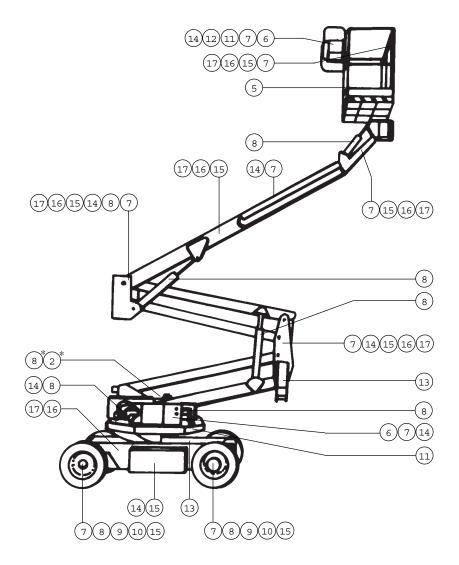
Maintenance Inspection



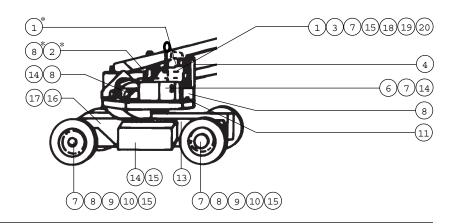
- ☑ The Maintenance Inspection shall be completed daily by a person trained and qualified on the maintenance of this machine.
- Immediately tag and remove from service a damaged or malfunctioning machine.
- Repair any machine damage or malfunctions before operating machine.



DC Power model used for illustrative purposes.



Engine model used for illustrative purposes. Some component locations may vary.



MAINTENANCE INSPECTION

Daily Checklist

Make copies of this checklist to use for each inspection.

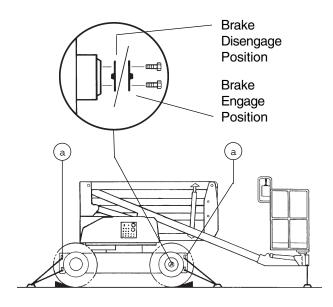
 Index No.			Index No.	
_	Inspect decals and placards for damage and legibility (see <i>Decals</i> section).		15	Check that all structural and other critical components are present and all associated
1	Check fuel level(s) and inspect for fuel leaks.			fasteners and pins are in place and properly tightened.
2	Check hydraulic oil level.		16	Check for dents or damage to machine.
3	Check engine oil level and inspect for leaks.		17	Inspect all welds and structural surfaces for visible cracks.
4	Check engine coolant level and inspect for leaks.		_	Check descent alarm, travel alarm and flashing beacon (if equipped)
5	Inspect operator's and safety manuals for damage and legibilty.			on turntable cover, from ground and platform controls.
6	Check platform and ground control		Eve	ry 100 Hours
ope 7	ration. Inspect for damage and loose or		18	Drain fuel filter/water separator (Kubota Diesel models).
	missing parts.		19	Replace engine oil and oil filter
8	Inspect hydraulic components for leaks and damage.			(Engine models).
9	Check air-filled tire pressure:		20	Replace engine air filter (Engine models).
	Industrial - 100 psi (6.89 bar)		Note	es: Perform quarterly (or every 150
10	Check wheel lug nuts, torque to 125 ft-lbs (169.5 Nm).		hour Kee	rs) and annual machine inspections. o records for three years. See the
11	Check tilt sensor and alarm operation.		Gen	<i>ie Z-45/22 Service Manual</i> for details.
12	Check drive brake operation.			
13	Check limit switch operation.	Inspe	ected B	У
14	Check electrical cables and wiring for frays, abrasions or	Date		
	other physical damage.	Seria	l No.	
		Mode	el	

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.
- ☑ Transport vehicle must be parked on a level surface.
- ☑ Transport vehicle must be secured to prevent rolling while machine is being loaded.
- ✓ Vehicle capacity, loading equipment and surfaces must be capable of supporting machine weight (see Specifications, page 28).
- Always transport the machine with the boom in the stowed position.
- The machine must be secured to the transport vehicle with chains or straps of ample load capacity.



a crane lifting points

Securing to Transport Vehicle for Transit

Always chock machine wheels in preparation for transport.

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

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

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

Inspect entire machine for loose or unsecured items.

Free-wheel Configuration for Winching

Chock wheels to prevent machine from rolling.

Be sure winch line is properly secured to drive chassis tie points and path is clear of all obstruction.

Release non-steer wheel brakes by turning over torque hub disconnect caps.

Reverse procedure described to re-engage brakes.

Note: Towing of the Genie Z-45/22 is not recommended. If machine must be towed, do not exceed 2 mph (3.2 km/h).

Decals - DC Power Models

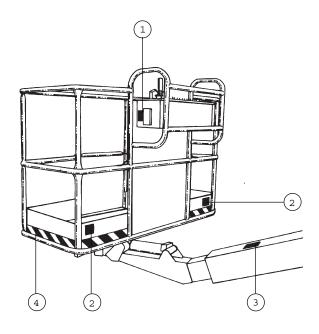
Index	Part No. Decal Description	Quantity
1	28174 Power to Platform, 220V AC or	2
	28235 Power to Platform, 115V AC	2
2	28177 Warning - Crushing Hazard	2
3	28181 Warning - Fall Hazard	1
4	1699 Safety Tape	_
5	31508 Notice - Power to Battery Charger	1
6	27206 Triangle, Blue	2
7	27204 Arrow, Blue	1
8	27207 Triangle, Yellow	2
9	28175 Caution - Improper contact with	4
10	27205 Arrow, Yellow	1
11	31066 Caution - Component Damage Hazard	1
12	28176 Notice - Missing Manuals	1
13	28236 Warning - Improper Use Hazard	1
14	29800 Danger - Safety Rules	2
15	29799 Platform Control Panel	1
16	29801 Notice - Pre-operation Inspection	2
	To operation mopoulon	

Index	Part No. Control Decal Description	uantity
17	29798 Notice - Platform Operating Instructions	1
18	28163 Notice - Maximum Allowable Side Force	1
19	31053 Notice - Foot Switch	1
20	30080 Notice - Maximum Load	1
21	28161 Warning - Crushing Hazard	4
22	30084 Ground Control Panel	1
23	31062 Notice - Manual Controls	1
24	28179 Danger - Tip-over Hazard	2
25	29792 Notice - Battery Charger Operating Instructi	2 ons
26	29793 Notice - Battery Connection Diagram	2
27	28372 Caution - Component Damage Hazard	2
28	29794 Danger - Tip-over Hazard	2
29	31052 Danger - Failure to obey	2
30	29796 Notice - Ground Operating Instructions	1
31	31784 Notice - Tire Pressure	1
32	25980 Danger - Electrocution Hazard	3

DECALS - DC POWER MODELS

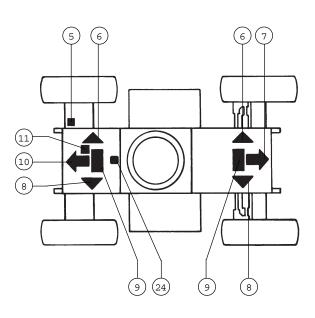
Index	Part No. Decal Description	Quantity
33	28157 Notice - Dexron II ATF equivalent	2
34	29797 Serial Plate	1
35	29803 Notice - Hazardous Materials	1
36	28173 Danger - Crushing Hazard	1
37	31746 Danger - Tip-over Hazard (platform moun	2 t)

Platform

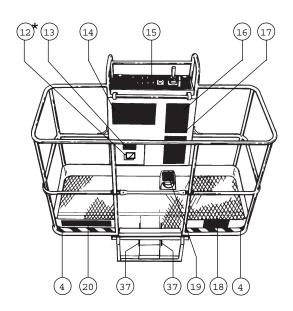


* Decal concealed from view

Drive Chassis - Top



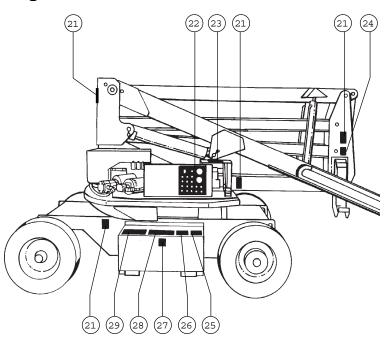
Platform



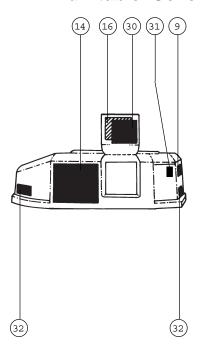
On the 4 foot platform, index numbers 18 and 20 will appear on each side of the platform.

DECALS - DC POWER MODELS

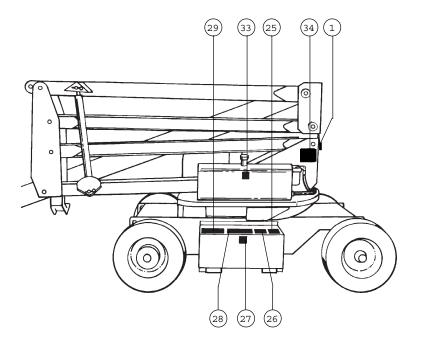
Engine Side



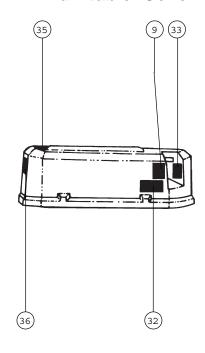
Turntable Cover



Tank Side



Turntable Cover



Decals - Tri-fuel and Gasoline/LPG Models

Index	Part No. Decal Description	Quantity 18	8 28163 Notice - Maximum Allowable Side Force	1
1	28174 Power to Platform, 220V AC	2 19	9 28165 Notice - Foot Switch	1
	or 28235 Power to Platform, 115V AC	2 20	20 30080 Notice - Maximum Load	1
2	28177 Warning - Crushing Hazard	2 2	21 28161 Warning - Crushing Hazard	4
3	28181 Warning - Fall Hazard	1 22	22 28162 Warning - Moving Engine Parts	1
4	1699 Safety Tape	_ 20	3 31055 Notice - Kubota Gas/LPG Engine Specification	1 s
5	31508 - Tri-fuel models only Notice - Power to Battery Charger	1 24	4 30084 Ground Control Panel	1
6	27206 Triangle, Blue	2 25	25 28170 - Gasoline/LPG models only Warning - Battery Safety	1
7	27204 Arrow, Blue	1 26	26 31062 Notice - Manual Controls	1
8	27207 Triangle, Yellow	2 27	27 28179 Danger - Tip-over Hazard	2
9	28175 Caution - Improper contact with	4 28	28 29793 - Tri-fuel models only Notice - Battery Connection Diagram	2
10	27205 Arrow, Yellow	1 29	29 29794 - Tri-fuel models only Danger - Tip-over Hazard	2
11	31066 Caution - Component Damage Hazard	1 30	20 28372 - Tri-fuel models only Caution - Component Damage Hazard	2
12	28176 Notice - Missing Manuals	1 3	11 29792 - Tri-fuel models only Notice - Battery Charger Operating Instructions	2
13	28236 Warning - Improper Use Hazard	1 32	2 31052 - Tri-fuel models only Danger - Failure to obey	2
14	29800 Danger - Safety Rules	2 33	3 28239 Warning - Burn Hazard	1
15	29799 Platform Control Panel	1 34	4 29796 Notice - Ground Operating Instructions	1
16	29801 Notice - Pre-operation Inspection	2 35	5 25980 Danger - Electrocution Hazard	2
17	29798 Notice - Platform Operating Instructions	1 36	6 31784 Notice - Tire Pressure	1

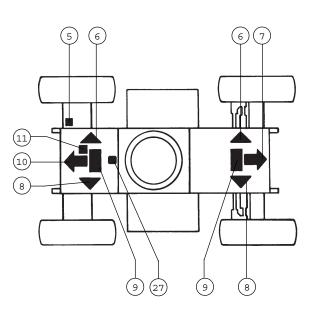
DECALS - TRI-FUEL AND GASOLINE/LPG MODELS

Index	Part No. Decal Description	Quantity
37	28171 Danger - No Smoking	2
38	28158 Notice - Unleaded Gasoline	2
39	28157 Notice - Dexron II ATF equivalent	2
40	29797 Serial Plate	1
41	28173 Danger - Crushing Hazard	1
42	28160 Notice - LPG	1
43	28164 Notice - Hazardous Materials	1
44	31746 Danger - Tip-over Hazard (platform mount	2

2 3

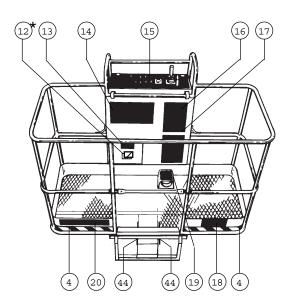
* Decal concealed from view

Drive Chassis - Top



Platform

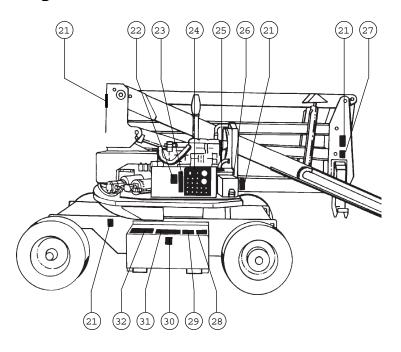
Platform



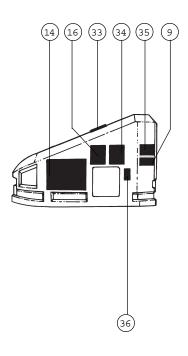
On the 4 foot platform, index numbers 18 and 20 will appear on each side of the platform.

DECALS - TRI-FUEL AND GASOLINE/LPG MODELS

Engine Side

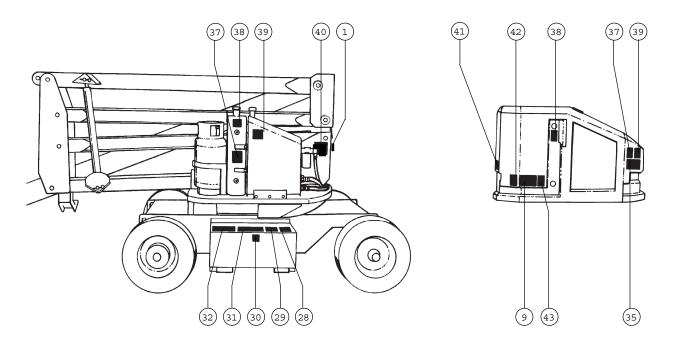


Turntable Cover



Tank Side

Turntable Cover



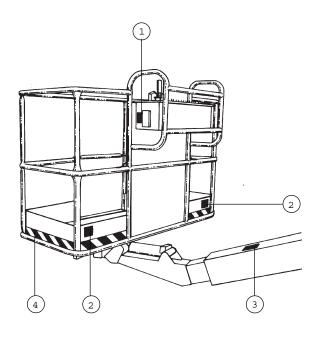
Decals - Bi-fuel and Diesel Models

Index	Part No. Decal Description	Quantity 1	8	28163 Notice - Maximum Allowable Side Force	1
1	28174 Power to Platform, 220V AC	2 1	9	28165 Notice - Foot Switch	1
	or 28235 Power to Platform, 115V AC	2 2	0	30080 Notice - Maximum Load	1
2	28177 Warning - Crushing Hazard	2 2	1	28161 Warning - Crushing Hazard	4
3	28181 Warning - Fall Hazard	1 2	2	28162 Warning - Moving Engine Parts	1
4	1699 Safety Tape	2	:3	31054 Notice - Kubota Diesel Engine Specifications	1
5	31508 - Bi-fuel models only Notice - Power to Battery Charger	1 2	4	30084 Ground Control Panel	1
6	27206 Triangle, Blue	2 2	5	28170 - Diesel models only Warning - Battery Safety	1
7	27204 Arrow, Blue	1	6	31062 Notice - Manual Controls	1
8	27207 Triangle, Yellow	2 2	7	28179 Danger - Tip-over Hazard	2
9	28175 Caution - Improper contact with	4 2	8	29793 - Bi-fuel models only Notice - Battery Connection Diagram	2
10	27205 Arrow, Yellow	1 2	9	29794 - Bi-fuel models only Danger - Tip-over Hazard	2
11	31066 Caution - Component Damage Hazard	1 3	0	28372 - Bi-fuel models only Caution - Component Damage Hazard	2
12	28176 Notice - Missing Manuals	₁ 3	1	29792 - Bi-fuel models only Notice - Battery Charger Operating Instructions	2
13	28236 Warning - Improper Use Hazard	 1 3	2	31052 - Bi-fuel models only Danger - Failure to obey	2
14	29800 Danger - Safety Rules	₂ 3	3	28239 Warning - Burn Hazard	1
15	29799 Platform Control Panel	1 3	4	29796 Notice - Ground Operating Instructions	1
16	29801 Notice - Pre-operation Inspection	2 3	5	25980 Danger - Electrocution Hazard	2
17	29798 Notice - Platform Operating Instructions	₁ 3	6	31784 Notice - Tire Pressure	1

DECALS - BI-FUEL AND DIESEL MODELS

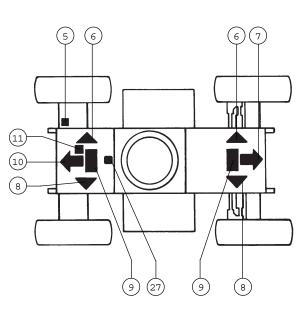
Index	Part No. Decal Description	Quantity
37	28171 Danger - No Smoking	2
38	28159 Notice - Diesel Fuel	2
39	28157 Notice - Dexron II ATF equivalent	2
40	29797 Serial Plate	1
41	28173 Danger - Crushing Hazard	1
42	28164 Notice - Hazardous Materials	1
43	31746 Danger - Tip-over Hazard (platform mount	2 t)

Platform

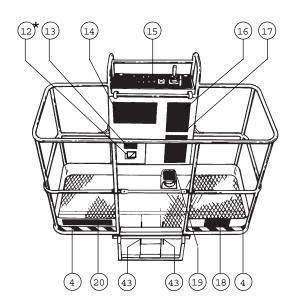


* Decal concealed from view

Drive Chassis - Top



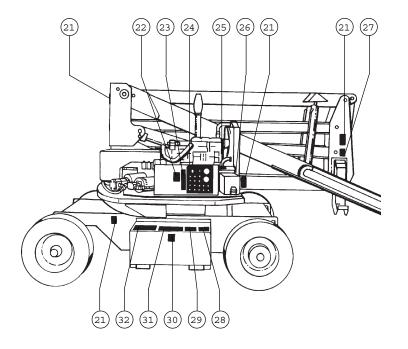
Platform



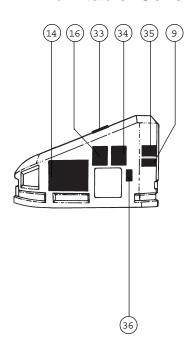
On the 4 foot platform, index numbers 18 and 20 will appear on each side of the platform.

DECALS - BI-FUEL AND DIESEL MODELS

Engine Side

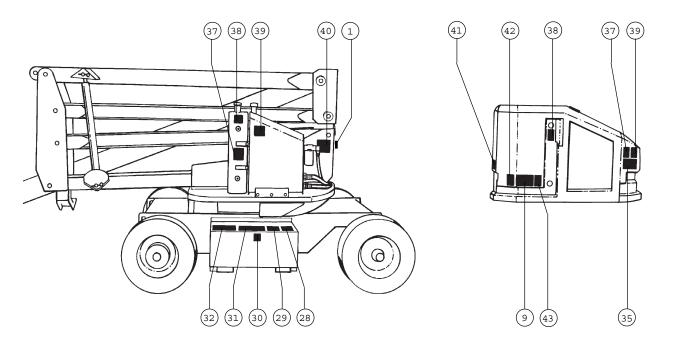


Turntable Cover



Tank Side

Turntable Cover

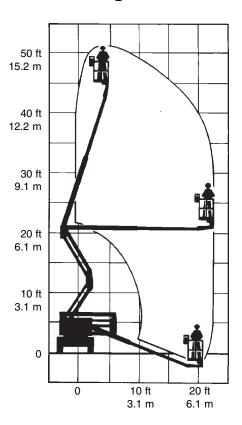


Specifications

All models

Height, working maximum	51 ft	15.54 m
Height, platform maximum	45 ft	13.72 m
Height, stowed maximum	6 ft 6 in	2.0 m
Horizontal reach maximum	23 ft	7 m
Width	5 ft 11 in	1.8 m
Length, stowed	17 ft 8 in	5.4 m
Lift capacity	500 lbs	227 kg
Wheelbase	6 ft 3 in	1.9 m
Turning radius (outside)	14 ft 4 in	4.36 m
Turning radius (inside)	7 ft	2.1 m
Turntable rotation (degrees)		359
Turntable tailswing		0
Controls	12V D	C proportional
Platform dimensions 6 foot 5 foot 4 foot	30 x 72 in 30 x 60 in 30 x 48 in	76 x 183 cm 76 x 152 cm 76 x 121 cm
Platform leveling		self-leveling
Platform rotation		180°
AC outlet in platform		standard
Hydraulic pressure, maximum drive functions		3500 psi 241 bar
Hydraulic pressure, maximum boom functions		2200 psi 152 bar
Industrial tires		9-14.5 LT
Gradeability, stowed		30%
Ground clearance	8 in	20 cm

Range of Motion



SPECIFICATIONS

DC Power models

Power source	12 Group-GC2B, 6V 245AH Batteries	
Travel speed, stowed	0 - 2.5 mph 0 - 4.02 km/h	
Travel speed, raised maximum	40 ft per 150 seconds 12.2 m per 150 seconds	
Hydraulic tank capacity	17.7 gallons	67 liters
Weight	13910 lbs	6309 kg

Bi-fuel models

	D-905 26 Hp I b-GC2B, 6V 24	9
Travel speed, stowed		0 - 3.5 mph 0 - 5.6 km/h
Travel speed, raised maximum	•	150 seconds 150 seconds
Hydraulic tank capacity	22.5 gallons	85 liters
Fuel tank capacity	18.2 gallons	68.9 liters
Weight	14770 lbs	6699 kg

Tri-fuel models

Power source		i-750 24.5 Hp /LPG Engine
and 12 Group	-GC2B, 6V 245	5AH Batteries
Travel speed, stowed		0 - 3.5 mph
		0 - 5.6 km/h
Travel speed,	40 ft per 150 second	
raised maximum	12.2 m per	150 seconds
Hydraulic tank capacity	22.5 gallons	85 liters
Fuel tank capacity	8 gallons	30.2 liters
LPG tank capacity	33.5 lbs	15.2 kg
Weight	14650 lbs	6645 kg

Diesel models

Power source	Kubota	D-905 26 Hp [Diesel Engine
Travel speed, stow	ed		0 - 3.5 mph 0 - 5.6 km/h
Travel speed, raised maximum		•	150 seconds 150 seconds
Hydraulic tank capa	acity	22.5 gallons	85 liters
Fuel tank capacity		18.2 gallons	68.9 liters
Weight		13651 lbs	6192 kg

Gasoline/LPG models

Power source	Kubota WG- Gasoline/	750 24.5 Hp LPG Engine
Travel speed, stowed		0 - 3.5 mph 0 - 5.6 km/h
Travel speed, raised maximum	40 ft per 150 seconds 12.2 m per 150 seconds	
Hydraulic tank capacity	22.5 gallons	85 liters
Fuel tank capacity	8 gallons	30.2 liters
LPG tank capacity	33.5 lbs	15.2 kg
Weight	13531 lbs	6137 kg

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