Owner's Manual, Operating Instructions Manual, and Replacement Parts Manual

SpinGo Personnel Lifter



SpinGo

This Owner's Manual, Operating Instructions Manual, and Replacement Parts Manual must remain on the *SpinGo* Personnel Lifter in the container provided.

If you need a replacement for this manual, contact your authorized Lift-Rite Sales and Service Center whose name appears on the back cover.

This publication, 1239530A, applies to the Lift-Rite *SpinGo* Personnel Lifter, and to all subsequent releases of this product until otherwise indicated in new editions. Changes occur periodically to the information in this publication.

To order additional copies of this manual, part number 1239530A, contact your local authorized Lift-Rite Sales and Service Center.

If you need assistance with your personnel lifter, contact your local authorized Lift-Rite Sales and Service Center.

For more information, please visit www.liftrite.com.

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TABLE OF CONTENTS

INTRODUCTION	1
HAZARD AND TERMINOLOGY SYMBOLS	1
RESPONSIBILITY OF OWNER	2
SAFETY	3
GENERAL INFORMATION	3
SAFETY STANDARDS COMPLIANCE	3
OPERATOR COMPREHENSION	3
PERSONNEL LIFTER INSPECTION	4
INSPECTION OF THE WORKPLACE	4
OPERATION SAFETY	4
SAFETY REQUIREMENTS	5
RISK OF FALLING	6
ELECTROCUTION HAZARD	7
STABILITY	8
CRUSHING AND IMPACT HAZARDS	9
PERSONNEL TRAINING	10
Operator training requirements:	10
Training supervision	10
PREPARATION INSPECTION AND MAINTENANCE	11
COMPLETE DAILY INSPECTION	12
Daily Inspection Checklist Procedures	13
COVER REMOVAL/INSTALLATION	15
OPERATION OF THE PERSONNEL LIFTER	17
DESCRIPTION OF THE PERSONNEL LIFTER	17
FUNCTION OF THE PERSONNEL LIFTER	17
Operation Criteria	17
Battery charging procedure	18
Battery Gauge	20
PLATFORM COMMAND CONSOLE OPERATIONS	21
Platform Emergency Stop Button	21
Operating Compartment Lift and Lower Buttons	22
Brake Release Button	23

i

Raise/Lower Load Tray Lever	24
Caster Lock	24
Tilt Sensor and Level Indicator Light	25
SERVICE COMMAND CONSOLE OPERATIONS	26
Service Emergency Stop Button	26
Service Controls	27
EMERGENCY LOWERING LEVER	28
TRANSPORT PROCEDURES	31
General Information	31
Transport with a Fork Lift Truck	31
Transport Vehicle Tie Down Strapping	32
PARKING THE PERSONNEL LIFTER	32
CAPACITY TAG	33
DECALS	34
LOCATION OF DECALS	35
PERSONNEL LIFTER DIMENSIONS	36
TECHNICAL DATA	37
Location of the serial numbers	38
MAINTENANCE TO BE PERFORMED BY THE OPERATOR	39
Hydraulic oil	39
Blocking Procedure for Personnel Lifter Maintenance	40
BATTERY INSPECTION AND MAINTENANCE PROCEDURE	41
BATTERY SAFETY	41
Battery Terminals Inspection/Maintenance	42
Battery Water Inspection	42
Dead Battery Mitigation	43
PERSONNEL LIFTER CLEANING	44
DAILY INSPECTION CHECKLIST	45
HYDRAULIC SCHEMATIC	48
WIRING DIAGRAM	48
TROUBLESHOOTING	49

ii



Serial Number: _____

iv

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INTRODUCTION

This manual is an important document.

The purpose of this manual is to illustrate the essential precautions and operational procedures for the safe and correct operation of the personnel lifter based upon the utilization anticipated.

These manuals reinforce your training to help prevent personal injury and property damage.

You should read this entire manual before operating the personnel lifter.

If necessary, a replacement copy of this manual can be obtained from your Lift-Rite authorized dealer. Replacement copies of the Service Manual and Manual of Responsibilities can also be obtained from your Lift-Rite authorized dealer.

This manual and the Manual of Responsibilities shall be present on the machine in the weather-resistant storage container at all times.

The machine may not be rented, leased, or offered for use to any individual without permission from the owner. Renting, leasing, or offering for use requires that the user/receiver be familiarized and trained on the equipment.

HAZARD AND TERMINOLOGY SYMBOLS

Hazard symbols are necessary to call attention to potential dangers that could cause injuries. To avoid possible serious injuries or fatal accidents, comply with all of the safety instructions that follow these symbol:



WARNING: Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious iniury.



CAUTION: Caution indicates a potentially hazardous situation, which, if not avoided, could result in minor or moderate injury or in damage to the personnel lifter or nearby objects. It can also be used to alert against unsafe practices.



Indicates information or a policy that relates directly or indirectly to the protection of property.

For:

- Training Materials
- Replacement Manuals
- Questions Regarding Product Safety
- Standard and Regulations Compliance Information
- Questions Regarding Special Product Applications
- Question Regarding Product Modifications

Contact:

Lift-Rite

22 South Canal Street

Greene, NY 13778

Tel: 1-800-558-6012

RESPONSIBILITY OF OWNER

It is the responsibility of the owner of this personnel lifter to maintain records for a minimum of at least four years regarding the following information:

- Name and address of purchaser, including serial number and date. This information should be provided to the manufacturer within 60 days.
- Written records of frequent and annual inspections and repairs performed. The record should include deficiencies found, corrective actions, and person performing the repair. When frequent/annual inspections or repairs are performed by entities other than the owner, the owner shall make sure records of such inspections or repairs are received no later than 60 days after the inspection or repair.
- Personnel lifters shall be inspected, serviced, and adjusted to the manufacturer's requirements prior to each delivery by sale, lease, or rental.
- If rented or leased, the pre-delivery preparation shall be performed prior to each delivery.
- Training information, including:
 - Name of persons trained
 - Name of person and entity providing the training
 - Clear identification that the training covered was on the personnel lifter
 - Date of training
 - Information regarding training and familiarization should be provided to users and trainees. Users are also responsible for maintaining the above listed training records.
- Name of persons receiving familiarization upon delivery (unless familiarization has been provided on the same or similar model within 90 days).
- Name of persons providing familiarization.

Upon rental/lease, owner must:

- Make sure operating and service manuals are conveyed to new owner/user.
- Provide current Manual of Responsibilities for Manually Propelled Elevating Aerial Platforms to new owner.
- Provide repair and parts manual to new owner/user.
- Offer training or advise the new owner/user of where to obtain training.

SAFETY

GENERAL INFORMATION

This section illustrates the precautions necessary for the correct and safe use and maintenance of the personnel lifter. To make sure the personnel lifter is correctly used, it is important to establish a daily inspection procedure based on the directions in this manual.

The safe operation of personnel lifters requires, among other things, scheduled maintenance. Therefore, appropriate maintenance facilities should be provided.

The owner, users, operators, firms offering leasing; and those subjects who leased the personnel lifter must not operate the personnel lifter before: reading this manual; sections 6, 7, and 8 of ANSI/SAIA A92.3, Manual of Responsibilities; all decals on the personnel lifter; and completing training in the operational procedures under the supervision of a qualified instructor.

Upon delivery, the following items are addressed with a receiving entity. Before operating the platform for the first time, make sure that you are properly trained and familiar with the following items. If you are not familiar with these items, ask for assistance from the owner of the lift prior to operating the lift.

- · Become familiar with the location of the weather-resistant compartment for manual storage
- Confirm that the operator's manual and Manual of Responsibilities are present on the personnel lifter
- · Review the control functions, decals, and warnings
- Review the safety devices
- If you are responsible for loading or unloading the lift, be familiar with the loading and unloading procedures in "TRANSPORT PROCEDURES" on page 31.

For further information regarding training, inspection, maintenance, application and prior operation, contact Lift-Rite or an authorized Lift-Rite representative.

SAFETY STANDARDS COMPLIANCE

The personnel lifter complies with the following standards and regulations in effect on the date the personnel lifter was built:

ANSI/SAIA A92.3, Section 4, American National Standards

OPERATOR COMPREHENSION

Federal law and the applicable standards require you to be trained and authorized to operate the personnel lifter.

This manual is not a substitute for training.

- Do not operate the personnel lifter unless you are trained, authorized, and qualified to do so.
- Read and obey all warnings and instructions contained in this manual, sections 6, 7, and 8 of ANSI/SAIA A92.3, Manual of Responsibilities, and on the personnel lifter prior to operating the personnel lifter.
- Use of the personnel lifter is permitted only by trained, authorized and qualified personnel, who have carefully read and fully understand the indications of CAUTION, WARNING and NOTICE as well as the operating instructions of the personnel lifter found in the manual.
- All operators must read and obey the commands, controls, and emergency functions of the personnel lifter specified in the manual.
- Carefully read and obey all company rules, and local and governmental regulations in force relative to the operation of the personnel lifter.

PERSONNEL LIFTER INSPECTION

- Use the personnel lifter only after having completed the daily inspection checklist. For further information, consult the Preparation and Inspection section in this manual.
- Make sure that all of the safety devices function correctly.
- Report any malfunction or unsafe condition immediately. Do not operate the personnel lifter until corrected.



WARNING: Modifications or alterations of the personnel lifter may only be carried out with written authorization from the manufacturer.

- Do not operate the personnel lifter if the decals are illegible or missing.
- Avoid accumulations of debris on the floor of the platform. Prevent mud, oil, grease, or other similar slippery substances from coming into contact with footwear or the platform floor.

INSPECTION OF THE WORKPLACE

- Prior to operating the personnel lifter, and during operation, the operator shall immediately report any potentially hazardous conditions that becomes evident and stop operating the personnel lifter. Do not use the personnel lifter until the unit has been repaired or the hazardous condition has been fixed.
- Personnel lifter is for indoor use only.
- Before operation, check for uneven floors, drop-offs, holes, bumps, debris, and other floor obstructions.
- Do not operate on a slope.
- Check for the presence of unauthorized personnel.
- Before operation, inspect your work area for overhead electrical lines and other obstructions. Ensure that adequate clearance is maintained from overhead obstructions and energized electrical conductors. When the personnel lifter is to operate within the area of travel of a bridge crane or similar equipment, steps shall be taken to prevent a collision with the aerial platform.
- Do not operate or raise the operator compartment on trucks, semi trailer truck beds, railroad cars, boats on the water, scaffolds or similar structures or vehicles.
- Do not travel on unlevel or soft surfaces that could cause personnel lifter to slide or tip.
- Verify the surface can support the weight of the personnel lifter, operator, and load. Do not operate on any incline. Only operate the personnel lifter on a strong, level surface that will support the weight of the personnel lifter, operator, and the load.
- The personnel lifter may be operated at temperatures between 0°F and 104°F (-18°C and 40°C).
- When moving equipment or vehicles are present, special precautions shall be taken to comply with local ordinances or safety standards established by the workplace. Warnings such as, but not limited to, flags, roped off areas, flashing lights, and barricades shall be used as appropriate.
- Operation of the personnel lifter in a hazardous location shall be prohibited if not approved and marked for operation in such locations.

OPERATION SAFETY

- All personnel should check with their employer regarding what personal safety equipment they should wear.
- Check all operating systems and safety devices. Report any malfunction or unsafe condition immediately. Do not operate the personnel lifter until corrected.
- Care shall be taken to prevent items such as rope, electrical cords, and hoses from becoming entangled in the personnel lifter.
- Observe applicable traffic regulations. Yield the right of way to pedestrians. Slow down for turns and on slippery surfaces that could cause the personnel lifter to slide or tip. Stop at intersections and/or whenever vision is obstructed.

- Use the personnel lifter exclusively for lifting a single person and any tools and/or materials that are secured, evenly distributed, below the rated working load limit, and can be safely handled by the operator.
- Avoid quick starts, stops, or turns.
- Only properly secured tools and materials which are evenly distributed and can be safely handled by the operator may be moved on the operator compartment or load tray.
- Make sure that tools are put away properly and are not left hanging by their power cords in the platform work area.
- Maintain adequate clearance from overhead obstructions and energized electrical conductors and parts.
- Always look in the direction of travel.
- Do not travel with a person inside the operator compartment.
- When leaving the personnel lifter unattended, fully lower the operator compartment, turn the key to the OFF position, and remove the key.
- Do not carry passengers. Only one (1) occupant is allowed on the personnel lifter.
- Do not place material in the operator compartment.
- Do not move the personnel lifter unless the operator compartment is fully lowered.
- Keep all portions of the body inside the operator compartment when operating the personnel lifter.
- Keep clear of all obstructions.
- Do not alter the safety devices of the machine, such as the tilt sensor, in any way.
- If you are uncertain of the rated capacity, intended use, maintenance, condition, or safety of operation of the personnel lifter, do not use the personnel lifter and contact the owner, dealer, or manufacturer to answer any questions.

SAFETY REQUIREMENTS



WARNING: Industrial equipment can be hazardous when improperly used.

Personnel lifter accidents may result from:

- Careless operators
- Untrained and unauthorized use
- Poor maintenance

Your personnel lifter is part of a system that has three parts:

- The operator
- The personnel lifter
- The workplace environment

Safe operation of your personnel lifter requires:

- Your knowledge, training, skill and attitude
- Active and attentive supervision to reinforce correct operational behavior
- Good personnel lifter maintenance
- A safe workplace with an appropriately configured personnel lifter

RISK OF FALLING



WARNING: Falling from platform could cause death or serious injury.

- Do not operate the personnel lifter without placing gates in the closed position.
- Keep both feet firmly planted on the platform floor at all times.
- Do not set ladders, boxes, steps, boards or other similar articles on the platform floor in order to increase the overall working height.
- Do not step on the gates, rails, or the tray.
- Pay very close attention when getting on or off the platform. Make sure that the operator compartment is completely lowered. When getting on or off the platform, do so facing the personnel lifter.
- Always keep three points of contact with the personnel lifter, doing so in such a manner that at least both hands and one foot or both feet and one hand are continuously in contact with the personnel lifter when getting on or off.
- Avoid sudden shifts in loads or operator positions.
- Guard rails are provided for fall protection. Do not lean any part of your body against the rails.
- Do not overload.

- Do not load unevenly.
- Do not push or pull on objects adjacent to the operator compartment.
- Keep the gates closed at all times while the unit is in operation.
- Always operate from the designated operating position. All parts of your body shall be well within the compartment, gate, rails, or tray of the personnel lifter.

ELECTROCUTION HAZARD

- The personnel lifter is not electrically insulated.
- Maintain a distance of at least 10 ft. (3 m) between any part of the personnel lifter, its occupant, and tools or equipment, and an electrical power line or piece of equipment with an electrical charge rated at least 50,000 Volts.
- It is necessary to add 1 ft. (0.3 m) for each additional voltage increase equal to or less than 30,000 Volts.
- It is possible to reduce the minimum safe operational distance in the presence of insulating barriers for the prevention of contact, if those barriers have been adjusted to the voltage of the electrical lines they are set to protect.
- The barriers must not be a part of the personnel lifter nor may they be connected to it. The minimum operational safety distance may be reduced within the operational dimensions indicated by the insulating barriers. This distance is to be determined by a qualified person subject to the company, local, and governmental regulations regarding the undertaking of work operations in the proximity of high voltage equipment.



VOLTAGE RANGE (FROM PHASE TO PHASE)	MINIMUM OPERATIONAL SAFETY DISTANCES ft. (m)	
From 0 to 50 kV	10 (3)	
From over 50 kV to 200 kV	15 (5)	
From over 200 kV to 350 kV	20 (6)	
From over 350 kV to 500 kV	25 (8)	
From over 500 kV to 750 kV	35 (11)	
From over 750 kV to 1000 kV	45 (14)	
NOTE: These minimum operational safety distances are to be applied except in cases in which company, local, or governmental regulations are more stringent.		

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STABILITY

- Your personnel lifter is designed to be steady and stable. Stability is affected by:
 - Vehicle weight
 - Load weight, height, and distribution
 - · Load position while picking and when placed on lifter
 - Operator weight
- The personnel lifter's platform configuration tag lists the maximum rated workload (including operators).
- The personnel lifter can tip or overturn. This can be caused by:
 - Careless load handling by the operator
 - Excessive load weight and height
 - Poor floor conditions
 - Lateral load greater than 50 lbs. (22 kg)
 - Operator weight greater then 286 lbs. (130 kg)
- Do not travel or lift on any incline or uneven surface. Only operate the personnel lifter on a strong, level surface that will support the weight of the personnel lifter, operator, and the load.
- Before travel on floors, bridges, trucks or other surfaces, verify that the surface can support the weight of the personnel lifter, operator and the load.
- Do not push the personnel lifter unless it is fully lowered.
- Do not travel with a person inside the operator compartment.
- Do not overload the personnel lifter. Check "CAPACITY TAG" on page 33 for rated loads. Always keep loads evenly distributed. Do not handle unstable or loosely stacked loads.
- Never exceed the rated capacity when loads are transferred at any level.
- Do not exceed the maximum lateral load of 50 lbs. (22.6 kg) for the personnel lifter.
- Keep the chassis of the personnel lifter at a minimum distance of 2 ft. (0.6 m) from holes, rough areas, descents, obstacles, debris, and other potential hazards that may be found at ground level.
- Do not attempt to use the personnel lifter as a crane. Do not tie or bind the personnel lifter to any other adjacent structure.
- Do not position the operator compartment against another object to steady the operator compartment or attempt to improve stability.
- Do not increase the size of the operator compartment with extensions to the landing or other unauthorized additions.
- If the operator compartment becomes restricted when elevated and cannot be lowered by the service controls or emergency lower lever, transfer the operator to a safe location.
- Do not enter or exit the operator compartment when raised.
- Do not replace items critical to machine stability with items of different weight or specification. Consult with Lift-Rite authorized dealer for replacement parts.

CRUSHING AND IMPACT HAZARDS

- When the personnel lifter is being used or the operator compartment is being raised or lowered, observe the distances above, below, and on both sides of the operator compartment itself. Always look in the direction of travel.
- Do not allow anyone to stand or pass under the operator compartment or tray. Mark the floor with appropriate barriers, as needed.
- Always verify that there is not equipment or personnel below the platform before lowering the compartment.
- Do not lean out from the operator compartment railings.
- While lifting, always operate from the designated operating position, all parts of your body shall be within the compartment, gate, rails, or tray of the personnel lifter.
- When pushing the personnel lifter in areas of limited visibility, have an assigned person proceed ahead to indicate any hazard.
- When pushing, always keep pedestrians at a distance of at least 6 ft. (1.8 m) from the personnel lifter.
- Adjust the travel speed you are pushing based upon the following conditions: ground or floor surface conditions, traffic, visibility, load stability, location of other personnel, and any other factors that could constitute a hazard of collision, load or personnel lifter tip-over, or personnel injuries.
- Always travel at a speed that allows you to stop safely.
- Do not move at high speed in restricted, tight, or narrow areas.
- Notify operators of other overhead and floor level machines regarding the presence of the personnel lifter. Disconnect the electrical power to elevated cranes.

PERSONNEL TRAINING

Federal law and the applicable standards require you to be trained and authorized to operate this personnel lifter.

This manual is not a substitute for training.



CAUTION: Operate this personnel lifter slowly in an open area until you understand the controls completely.

The personnel lifter is a manually propelled device used to lift personnel to retrieve and transport loads.

Therefore, it is to be used and maintained exclusively by trained and qualified personnel.

The operator must not operate the personnel lifter until trained, which includes fully reading and understanding this manual and completing operator training under the supervision of a qualified instructor.

This training shall include general instructions regarding the inspection, application and operation of the personnel lifter, including recognition and avoidance of hazards associated with their operation, shall operate the personnel lifter.

Never allow the personnel lifter to be used by another person without authorization and trained by a qualified instructor.

Operator training requirements:

- 1. The purpose and use of manuals
- 2. That Owner's Manual, Operating Instructions Manual, Replacement Parts Manual and Manual of Responsibility are an integral part of the personnel lifter and must be stored properly in the weather-resistant compartment when not in use
- 3. A pre-start inspection
- 4. Responsibilities associated with problems or malfunctions affecting the operation of the personnel lifter
- 5. Factors affecting stability
- 6. The purpose of decals
- 7. Workplace inspection
- 8. Safety rules and regulations
- 9. Authorization to operate
- 10. Operator warnings and instructions
- 11. Actual operation of the personnel lifter under the direction of a qualified instructor. The trainee shall operate the personnel lifter for a sufficient period of time to demonstrate proficiency in the actual operation of the personnel lifter.

Training supervision

10

Training must be given under the supervision of a qualified instructor, in an open area, free of obstacles. It must continue until the trainee is capable of using the personnel lifter safely.

The operator shall be retrained, when so directed by the user, based on the user's observation and evaluation of the operator.

PREPARATION INSPECTION AND MAINTENANCE

Lift-Rite provides information relative to the personnel lifter inspection, indicated in the following table.

All inspections, maintenance, and repairs shall be performed in accordance with the manufacturer's recommendations, and should be based on the environment and severity of use. See tables below for maintenance intervals. When performing maintenance, all precautions listed in the service manual must be adhered to. Replacement parts shall be identical or equivalent to the original components. Contact your authorized Lift-Rite dealer if you have any questions. Maintenance personnel shall be trained in inspection and maintenance. Only qualified personnel shall inspect and maintain the aerial platform. Repairs must be completed by a qualified technician. If, during any inspection, the personnel lifter is not found to be in proper operating condition, it shall be removed from service and repaired.

ТҮРЕ	FREQUENCY	MAIN RESPONSABILITY	QUALIFICATION FOR INSPECTION	REFERENCE
DAILY INSPECTION	Before each shift, or operator change.	User or operator	User or operator	Refer to page 45
FREQUENT INSPECTION	At an interval of 3 months, or if the personnel lifter has not been used for over 3 months, or if it has been purchased used.	Owner or user	Lift-Rite Qualified Mechanic	Refer to Service Manual
ANNUAL INSPECTION	Annual, within 13 months from the last inspection.	Owner or user	Lift-Rite Qualified Mechanic	Refer to Service Manual

Table 1: Personnel Lifter Inspection

The frequency of inspections and maintenance procedures must increase when the personnel lifter is used under adverse environmental conditions, as specified in the chart below, or with greater frequency.

Type of Service	Working Environment	Service Frequency
Normal	An eight hour day of basic use	90 days
Severe	Extended operating hours or constant use. A duty cycle greater than 20 lift/lower cycles per hour	60 days
Extreme	 Dusty or sandy conditions, such as in cement plants, lumber or flour mills, coal dust, or stone-crushing areas High temperature areas, such as in steel mills, foundries, enclosed applications Corrosive chemical atmosphere, such as: fish, meat, or poultry processing plants, tanneries, or any other similar applications chlorine or salt-sea air environments Adverse high humidity, wet, damp, or moist conditions 	30 days

COMPLETE DAILY INSPECTION



WARNING: To avoid possible injuries, the electrical power supply of the personnel lifter shall be turned off during the visual inspection.



CAUTION: Do not neglect the visual inspection and operational inspection for any portion of the personnel lifter.



CAUTION: Check and verify that there are no foreign objects or debris present that could cause serious damage to the personnel lifter.

It is the responsibility of the operator to make a thorough daily inspection of the personnel lifter before each shift.

The purpose of the daily inspection is to check and verify that the personnel lifter is in working order, with no faults or malfunctions and to determine if routine maintenance is required.

See "DAILY INSPECTION CHECKLIST" on page 45.

NOTE: Front cover removal is necessary to complete the daily inspection (see "COVER REMOVAL/ INSTALLATION" on page 15 for cover removal instructions.



12

WARNING: If any damage or unauthorized changes to the personnel lifter are found, do not use the personnel lifter.



Daily Inspection Checklist Procedures



WARNING: If the personnel lifter does not function properly, turn it off immediately. Notify maintenance personnel of the problem. Do not use the personnel lifter until it has been declared suitable for safe operation.

1. Perform the visual inspection portion of the daily checklist. (See "DAILY INSPECTION CHECKLIST" on page 45.)

Follow the procedures below for the operational inspection portion of the daily inspection.

- 2. Make sure that all the personnel lifter functions are disabled when the emergency stop button on the platform command console is activated (pressed). See "PLATFORM COMMAND CONSOLE OPERATIONS" on page 21.
- 3. From the service command console, without a load, perform the following operations: (See "SERVICE COMMAND CONSOLE OPERATIONS" on page 26.)
 - a. Make sure that all of the personnel lifter functions are disabled when the emergency stop button is activated (pressed).
 - b. Set the key switch to service.
 - c. Actuate the lift button. The operator compartment should not lift without pressing the enable button.
 - Actuate the enable button and actuate the lift button. The operator compartment should lift.
 Verify both the lift and lower buttons by lifting and lowering the operator compartment 2 to 3 ft.
 (0.61 to 0.92 m) several times.
 - e. Check and verify the proper function of the emergency lowering lever by lifting the operator compartment to full height and pull the emergency lowering lever until the operator compartment is completely lowered.
- 4. Brakes Check and verify the proper function of the brakes by actuating the brake release button and travel in forward and reverse. Follow the prior procedure without actuating the brake release button. With the brake release button not pressed, the personnel lifter should not move easily. With the brake release button pressed, the personnel lifter should move freely.
- 5. Platform gate opening limit: Open gates and make sure the gates spring close. Gates shall be perpendicular to the side rails when closed.
- 6. Tilt Sensor: Remove front cover. See "COVER REMOVAL/INSTALLATION" on page 15. Inspect slope alarm by pushing one side of the tilt sensor. (See "Tilt Sensor and Level Indicator Light" on page 25.) The level indicator light of the personnel lifter will indicate a sloped condition.

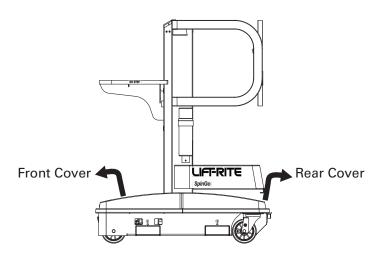


- 7. From the platform command console, without a load, perform the following operations. See "PLATFORM COMMAND CONSOLE OPERATIONS" on page 21.
 - a. Set the key switch to platform.
 - b. Actuate the lift button. The operator compartment should not lift without the deadman pedal pressed.
 - c. Actuate the deadman pedal and actuate the lift button. The operator compartment should lift.
 - d. Stand within the operator compartment with the gates closed and foot on the deadman pedal.
 - e. Lift and lower the operator compartment 2 to 3 ft. (0.61 to 0.92 m) several times. Check and verify that the lifting and the lowering of the operator compartment is operating properly.

COVER REMOVAL/INSTALLATION

Removal

Unlatch the left and right hasps that connect the front cover with the rear cover.



Front Cover

Lift the front cover from the front to free it from the bumper on the base frame. Then slide the front cover forward while lifting it to completely detach the front cover from the personnel lifter. Use caution when maneuvering around the load tray.



Rear Cover



WARNING: Crushing hazard: Do not inspect or initiate repair on the rear part of the unit unless the operator compartment is supported by a 4×4 in. (0.1 \times 0.1 m) square section wood block that is between 30 and 40 in. (0.76 and 1.02 m) tall. The integrity of the wood block should be visually inspected to make sure there are no cracks, crookedness, bowing, or other compromising features. Reference "Blocking Procedure for Personnel Lifter Maintenance" on page 40.

Use the service command console to lift the operator compartment to access the rear cover. Lift the rear cover from the rear end to free the cover from the bumper on the base frame. Then slide the rear cover backwards while lifting it to detach the rear cover from the personnel lifter.



Installation

Front Cover

Position the front cover on the bumper on the upper part of the frame and slide it backwards, towards the operator compartment. Use caution when maneuvering around the load tray.



Rear Cover



16

WARNING: Crushing hazard: Do not inspect or initiate repair on the rear part of the unit unless the operator compartment is supported by a 4×4 in. (0.1 \times 0.1 m) square section wood block that is between 30 and 40 in. (0.76 and 1.02 m) tall. The integrity of the wood block should be visually inspected to make sure there are no cracks, crookedness, bowing, or other compromising features. Reference "Blocking Procedure for Personnel Lifter Maintenance" on page 40.

Use the service command console to lift the operator compartment high enough for the rear cover to fit. Position the rear cover on its relative bumper on the upper part of the frame and slide it forward, towards the operator compartment.

Latch both the left and right hasps when front and rear covers are installed.

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OPERATION OF THE PERSONNEL LIFTER

THE MANUFACTURER HAS NO DIRECT CONTROL OF THE APPLICATION OR THE OPERATION OF THE PERSONNEL LIFTER. THE USER AND OPERATOR ARE RESPONSIBLE FOR FOLLOWING THE CORRECT SAFETY PROCEDURES.

This section provides information necessary for understanding the controls.

DESCRIPTION OF THE PERSONNEL LIFTER

This lifting device is a manually propelled *SpinGo* personnel lifter and it is equipped with an aerial work platform or operator compartment, mounted on a strut elevation mechanism, actuated by a single hydraulic cylinder with a synchronized effect.

The purpose of the personnel lifter is to allow access to areas above ground level, and the retrieval and transport of loads, on the load tray.

The *SpinGo* is equipped with a manually actuated load tray and load deck which is reserved only for objects and materials.

The *SpinGo* has two free caster wheels in the rear and two self braking wheels in the front. It is necessary to use the service command console (see page 26) when the personnel lifter is being serviced, when functional verifications are performed, or in case of emergency if the operator is not capable of lowering the operator compartment.

NEVER TRAVEL WITH A PERSON INSIDE THE OPERATOR COMPARTMENT.

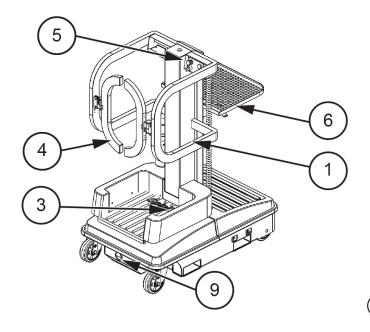
FUNCTION OF THE PERSONNEL LIFTER

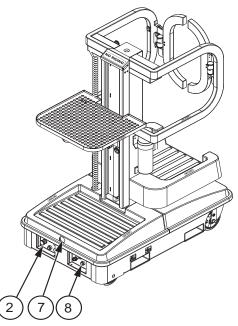
Operation Criteria

Before activating the personnel lifter using the commands on the service command console or those on the platform, it is necessary to satisfy the following conditions.

- Level indicator light is not ON.
- Battery voltage must be sufficient for operation.
- The key switch on the platform command console must be set to either the service command mode or the platform command mode.
- The emergency stop buttons on the command panel of the platform and on the service command console must be in the RESET position (extended outward).
- In platform command mode, the *SpinGo* personnel lifter raises and lowers only if the operator presses the deadman pedal on the platform and actuates the lift or lower button, see page 20.
- In service command mode, the *SpinGo* personnel lifter raises and lowers only if the operator presses the enable button and actuates the lift or lower button on the service control.
- The light/horn activates during travel, lifting, and lowering of the operator compartment.
- Brakes shall disengage when the platform is lowered and the operator toggles the brake release button.

LIFT-RITE





- 1. Operator Compartment
- 2. Service Command Console
- 3. Deadman Pedal
- 4. Platform Entry Gate
- 5. Platform Command Console
- 6. Load Tray
- 7. Light/Horn
- 8. Level Indicator Light
- 9. Battery Gauge

Battery charging procedure

This personnel lifter is equipped with a battery charger with an AC electrical power input/DC electrical power output. The battery charger stops charging the batteries automatically when they have reached full charge.

- NOTE: When the red LED is illuminated on the battery gauge the battery needs to be charged.
- NOTE: When the battery charger is connected to an AC electrical outlet, operator compartment lift/lower is disabled.

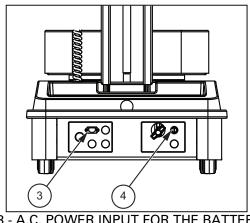


THE LEAD ACID BATTERIES MAY GENERATE EXPLOSIVE HYDROGEN GAS DURING NORMAL OPERATION. KEEP SPARKS, OPEN FLAMES, OR LIT TOBACCO AWAY FROM THE BATTERIES. DURING BATTERY CHARGING, PROVIDE FOR ADEQUATE VENTILATION IN THE AREA. DO NOT CHARGE A FROZEN BATTERY. CAREFULLY STUDY THE PRECAUTIONS SPECIFIED BY THE BATTERY MANUFACTURER RELATIVE TO THE SPEED OF CHARGING RECOMMENDED AS WELL AS THE POSSIBILITY OF REMOVAL OF THE CELL CAPS DURING CHARGING.

1. Park the personnel lifter in a well ventilated area near an AC wall socket.



2. Always use a grounded AC socket. Connect the battery charger to a correctly installed AC socket with ground connection according to all of the local regulations in force. The grounded socket is necessary so as to reduce the risk of electrical shocks. Do not use grounded adapters and do not modify the plug. If an extension is used, avoid excessive drops in voltage by using the 3 wire 12 AWG type.



3 - A.C. POWER INPUT FOR THE BATTERY CHARGER

4 - CHARGE STATUS LIGHT

The charge status lights for the batteries are located on the right panel of the chassis.

- 1. Upon the first connection, the battery charger LED will blink for a few seconds, then the charging begins.
- 2. When the GREEN LED illuminates, the batteries are charged. At this point, it is possible to disconnect the battery charger from the AC main power supply. (Grasp the plug and pull it out from the wall outlet. To avoid damage on the cord, do not pull on the cord.)



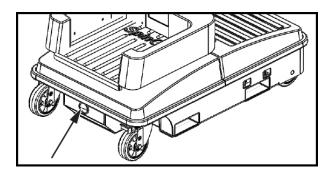
NOTE: When the green LED is ON, the battery charger switches OFF automatically.

LIFT-RITE®

Battery Gauge

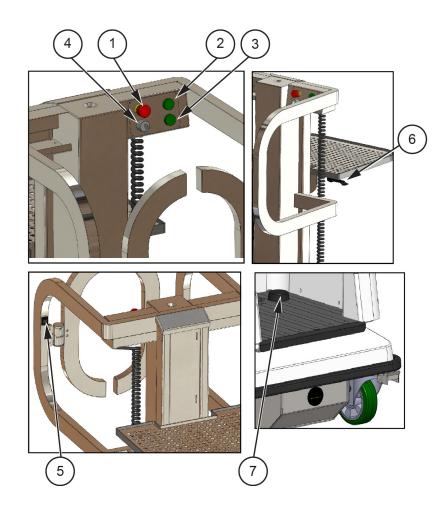
The battery gauge shows the battery charge status. When the red LED is illuminated, lifting of the operator compartment is prohibited and the battery must be charged.

Batteries shall only be charged in well-ventilated areas free of flames, sparks, or other hazards that may cause fire or explosion.



NOTE: SWITCHING OFF THE PERSONNEL LIFTER WHEN NOT IN USE INCREASES THE BATTERY LIFE.

PLATFORM COMMAND CONSOLE OPERATIONS



- 1. Emergency Stop Button
- 2. Lift Button
- 3. Lower Button
- 4. Key Switch
- 5. Brake Release Button
- 6. Load Tray Adjustment Lever
- 7. Deadman Pedal

Platform Emergency Stop Button

When pressed, the emergency stop button immediately stops all operations of the personnel lifter.

Reset of the emergency stop button **DOES NOT** actuate the personnel lifter, but enables the command devices.

NOTE: In order to operate the personnel lifter, the emergency stop buttons on the service command console (refer to page 18) and on the platform must both be set to the RESET position.

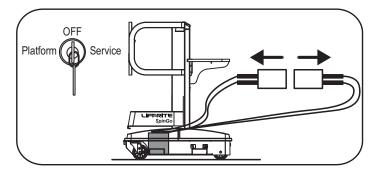
Operating Compartment Lift and Lower Buttons

The operator must not for any reason climb up on top of the operator compartment railings, or use ladders or other items on the platform or railing to achieve greater work heights or to reach further. In addition, the operator must never lean outside of the railing of the operator compartment.

Before activating the personnel lifter, as part of our pre-operation check, verify that:

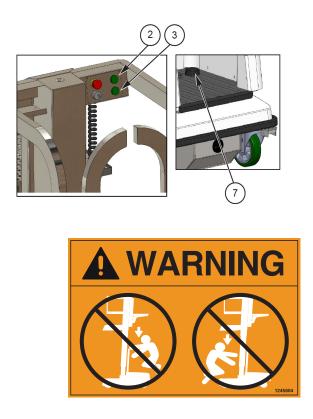
- the personnel lifter is on a strong, level surface that will support the weight of the personnel lifter, operator, and the load.
- there are no aerial obstacles in the work area
- the level indicator light is not illuminated

To enable the platform control, the key switch should be set to platform.



Push and hold down the deadman pedal (7) and the lift button (2) to lift the operator compartment. Release of the button or the deadman pedal automatically stops operator compartment movement.

Push and hold down the deadman pedal (7) and the lower button (3) to lower the operator compartment. Release of the button or the deadman pedal automatically stops operator compartment movement.

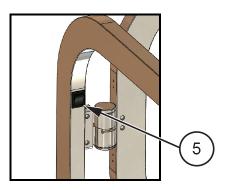


Brake Release Button

Push and hold the brake release button (5) to release the brakes on the fixed caster to allow horizontal travel on the *SpinGo*.

Release of the button engages the brakes on the fixed caster system.

NOTE: Releasing the brakes is possible only when the key switch is switched to platform and the operator compartment is completely lowered.

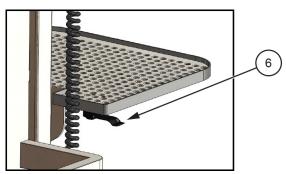


Raise/Lower Load Tray Lever

The load tray has been designed for a maximum load of 198 lbs. (90 kg). It may be raised or lowered vertically on the front part of the operator compartment using the release lever underneath the load tray.

Push and hold the load tray adjustment lever (6) and lift up with both hands to raise the tray. Release of the lever automatically stops its movement.

Push and hold the load tray lever (6) and push down with both hands to lower the tray. Release of the lever automatically stops its movement.





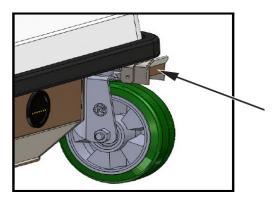
WARNING: Do not raise or lower the load tray when there is a load on it. Your head, arms, hands, legs, or feet can be seriously injured.



Caster Lock

24

The caster lock lever prevents the caster from swiveling and allows the personnel lifter to be pushed in a straight line when traveling.



Tilt Sensor and Level Indicator Light

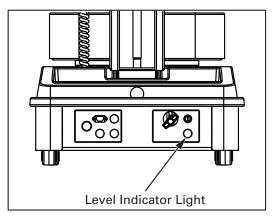
The SpinGo includes a level indicator light.

The level indicator light is activated by the tilt sensor.

Do not use the personnel lifter when the level indicator light is illuminated. If raised, lower the operator platform and proceed with caution while pushing the personnel lifter back onto a level surface.

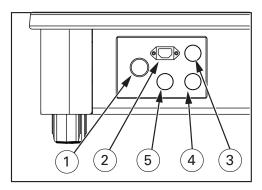
When the tilt sensor indicates a tilt condition, the red level indicator light will illuminate and the operator compartment will not lift. The tilt condition remains until the operator compartment is completely lowered and the tilt condition has been eliminated.





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SERVICE COMMAND CONSOLE OPERATIONS



The *SpinGo* service command console is in the front of the chassis. Service command console functions include:

- 1. Emergency Stop Button
- 2. Battery Charger Socket
- 3. Lift Button

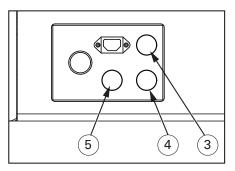
26

- 4. Lower Button
- 5. Enable Button

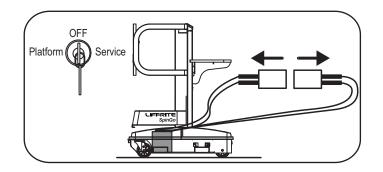
Service Emergency Stop Button

Immediately stops all lift/lower movement of the personnel lifter when pushed. Reset **DOES NOT** actuate the personnel lifter, but enables the command devices.

Service Controls



The platform key switch must be set to service to enable the lift/lower service command console controls.



To lift the operating compartment, push and hold down the **enable button (5) and the lift button (3)**.

RELEASE TO STOP THE LIFTING OF THE OPERATOR COMPARTMENT.

To lower the operating compartment, push and hold down the **enable button (5) and the lower button (4).** RELEASE TO STOP THE LOWERING OF THE OPERATOR COMPARTMENT.



EMERGENCY LOWERING LEVER

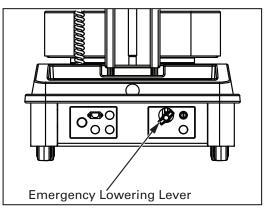


WARNING: Crushing Hazard: During the following operations for emergency descent, the operator must not allow anyone to stand or pass under the operator compartment.



The emergency lowering lever allows personnel on the ground to lower the operator compartment in the event that the operator is unable to do so after the platform has been elevated.

The emergency lowering lever is indicated by a decal.

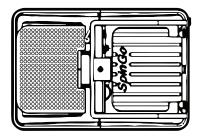


To lower the operator platform manually, pull the lever. The operator compartment will begin to lower very slowly.

RELEASE the lever to stop the lowering of the operator compartment.

PICKING PROCEDURE

Place the right or left side of the personnel lifter close to the racking (see figure below). Make sure to keep the personnel lifter parallel to the racking. Avoid sudden shifts in loads or operator positions. Do not push or pull on objects adjacent to the operator compartment.



Racking

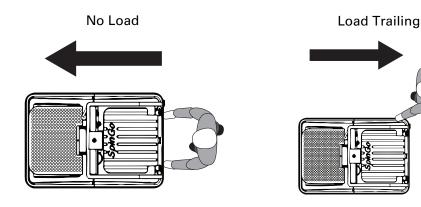
- Check the level indicator light for a tilt condition. If a tilt condition is present, do not attempt to lift. Proceed with caution while pushing the personnel lifter back onto a level surface.
- Adjust the height of the tray if needed prior to adding any load.
- Lift the operator compartment to the height required to pick the load.
- Do not lift more than 25 lbs. (11.3 kg) at a time while picking a load.
- It is acceptable to reach your arms only over the railing to pick loads, but never lean against the railing.
- When picking multiple loads make sure their weight is distributed equally on the shelf and is secure and stable.

Refer to "SAFETY" on page 3 for inspections, operation safety, safety requirements, and hazards.

LIFT-RITE

TRAVEL PROCEDURES

- Before travel on floors, bridges, trucks or other surfaces, verify that the surface can support the weight of the personnel lifter, operator, and the load.
- Do not travel on uneven or soft surfaces, over obstructions, bumps, holes, or debris.
- Slow down for turns and on slippery surfaces that could cause the personnel lifter to slide or tip.
- Make sure that your loads are secure and stable. Travel at a speed that prevents any loads from moving or tipping.
- Always look in the direction of travel. Keep a clear view, and when the load interferes with visibility, travel with the load trailing.
- During normal operation bring the personnel lifter to a complete stop before releasing the brake release button.



LIFT-RITE -

TRANSPORT PROCEDURES

General Information

The *SpinGo* may be transported within the workplace with the following method:

- manual pushing
- with a fork lift truck

The *SpinGo* may be transported between sites with the following method:

• in a semi-tractor trailer with the personnel lifter tied down

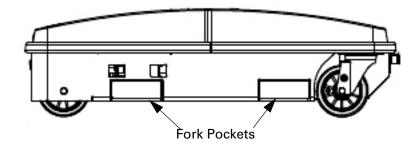
Before transport on floors, trucks, and other surfaces, verify that the surface can support the weight of the fork lift truck and load.

Before transport, make sure that the operator compartment has been completely lowered and all surfaces are empty (for example, no load is present).

Transport with a Fork Lift Truck

A qualified fork lift operator and a fork lift truck capable of carrying the weight of the personnel lifter shall be used for the below procedure. See technical specifications of the personal lifter.

Position the forks of a lift truck with sufficient capacity in the *SpinGo's* fork pockets. This allows the personnel lifter to be transported to the work area or lifted to an upper level by way of a standard fork lift.



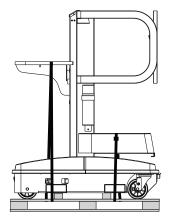
LIFT-RITE®

Transport Vehicle Tie Down Strapping

NOTE: The personnel lifter should be turned off and the brakes should be set.

IF EXCESSIVE FORCE IS EXERTED WHEN SECURING THE PERSONNEL LIFTER (LOAD ON THE WHEELS) COMPONENTS INCLUDING THE REAR CASTER WHEELS OR OF THE FRONT CASTER WHEEL ASSEMBLIES MAY BE DAMAGED.

Utilizing suitable strapping, secure the personnel lifter to the pallet by routing one strap over the platform covers and through the pallet and routing a second strap over the load tray through the pallet (make sure load tray is completely lowered).



PARKING THE PERSONNEL LIFTER

- 1. Drive the personnel lifter to a well sheltered and ventilated area.
- 2. Make sure that the operator compartment is completely lowered and turn the key switch to "OFF".
- 3. Remove the key from the platform to prevent unauthorized persons from using the personnel lifter.
- NOTE: If necessary, charge the batteries in preparation for the following working day (See Battery Charging).

CAPACITY TAG

CAPAC	TY
MAX NUMBER OF OCCUPANTS	1
MAX OPERATOR LOAD (A)	286 lbs. (130 kg)
MAX TRAY LOAD (B)	198 lbs. (90 kg)
MAX DECK LOAD (C)	198 lbs. (90 kg)
MAX LATERAL LOAD (D)	50 lbs. (22 kg)
MODEL	SpinGo 85
NOM BATT VOLTAGE	12 V
MIN BATT WEIGHT	46 lbs. (21 kg)
BATT CHARGER VOLTAGE	120 V
MACHINE WEIGHT	728 lbs. (330 kg)
MAX WHEEL LOAD	392 lbs. (178 kg)
POWER	700W
MAX PLATFORM HEIGHT	85 in. (2160 mm)
MAX WORKING HEIGHT	164 in. (4160 mm)
THE OWNER OF THIS VEHICLE IS RESPONSIBLE FOR SECTION 6, 7 AND 8 OF ANSI/SAIA A92.3.	R PERIODIC INSPECTIONS PER
REFER TO MANUAL FOR INSPECTION INFORMATIO THE MANDATORY REQUIREMENTS OF ANSI/SAIA A	

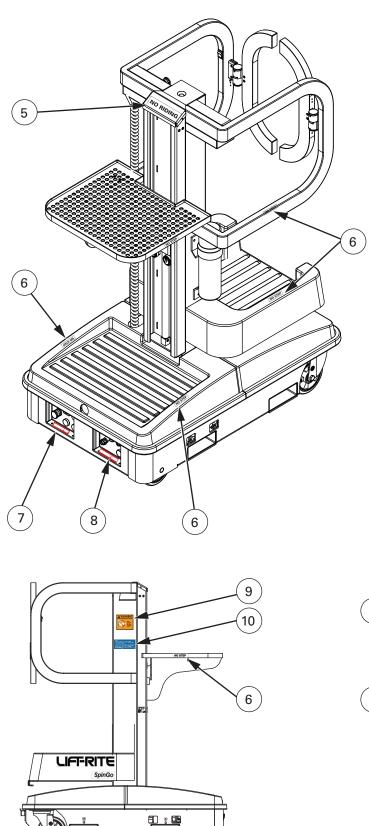
LIFF-RITE

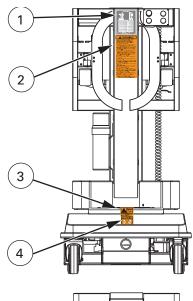
DECALS

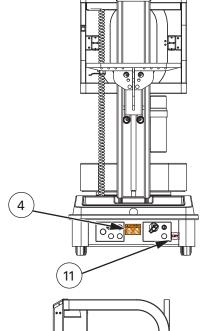
Read and obey all decals. If you have any questions about these decals, ask your supervisor. If a decal is damaged or missing, report it to your supervisor. Your local authorized Lift-Rite representative will replace it without charge. (See page 35 for location of the numbered decals shown below).

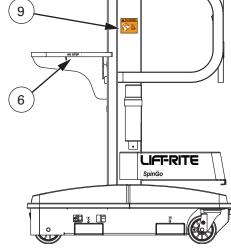


LOCATION OF DECALS

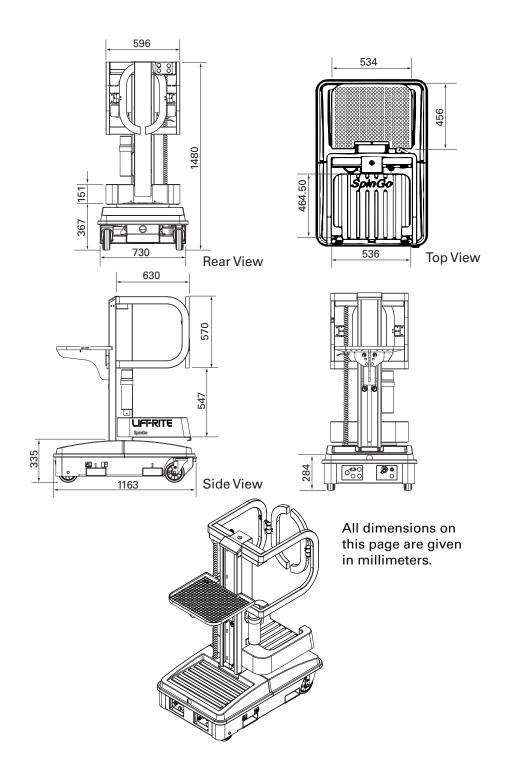




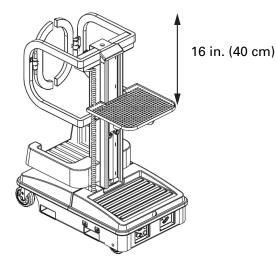




PERSONNEL LIFTER DIMENSIONS



TECHNICAL DATA



TECHNICAL SPECIFICATIONS SpinGo

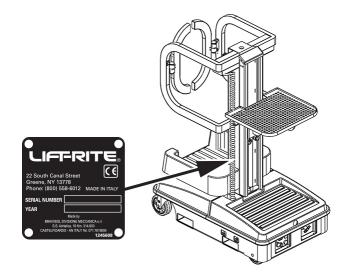
Turning Radius	(Internal)	ZERO
Platform Cycle Performance		Raising 18 sec Lowering 15 sec
Tires		Anti-Skid polyurethane
Tilt Condition Setting		1.2 Degrees
Max Wheel Load		392 lb./178 kg
LOAD CAPACITIES		
Operator Weight		286 lb./130 kg
Front Cover Load Capacity		198 lb./90 kg
Load Tray Load Capacity		198 lb./90 kg
Maximum Lateral Load		50 lbs./22 kg
POWER SUPPLY		
Batteries		N 01, 12V 85 Ah@20 hr.
Power Supply		12 V
Battery Weight		46 lb./21 kg
Minimum Battery Weight		46 lb./21 kg
Maximum Hydraulic System Pressure		1160 psi/7998 kPa
Charger Input Voltage		110 V AC 60Hz/220 V AC 50 Hz
Noise Level		Less than 70 dB (A)
<i>Platform Height</i> (Operator Compartment Fully)		85 in./216 cm

<i>Personnel Lifter Height Total</i> (Platform in Completely Lowered Rest Position)	58 in./148 cm
Personnel Lifter Length (Total)	45 in./115 cm
Personnel Lifter Width (Total)	29 in./73 cm
<i>Occupants:</i> (persons permitted on the platform)	1
Platform Entry Height	14 in./36 cm
Personnel Lifter Gross Weight (Personnel Lifter Empty)	728 lb./330 kg

INDOOR USE ONLY

Location of the serial numbers

For identification purposes, the serial number is engraved on the personnel lifter tag.



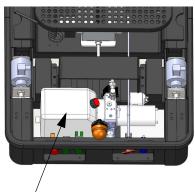
MAINTENANCE TO BE PERFORMED BY THE OPERATOR

Hydraulic oil

The level of the hydraulic oil in the reservoir can vary according to the temperature of the oil. That is, in a cold personnel lifter, it is possible that the oil level will not reach the FULL mark. Lift and lower the platform several times to obtain a more precise reading of the level. When the hydraulic oil is heated up, verify the reading, which should indicate a level equal to or near the FULL mark.

- DO NOT FILL BEYOND THE FULL MARK.
- FILL the oil if its level is below the mark.

NOTE: Check the level of the hydraulic oil with the operator compartment completely lowered.



Réservoir

If necessary, fill as follows:

- Unscrew the hydraulic oil fill cap.
- Fill with a paraffinic oil with the specifications below.

Viscosity Grade 1260911	ISO 22
Oil Type	Paraffinic
Density at 20°C (68°F)	858 Kg/m ³
Viscosity at 40°C (104°F)	22 cSt
Viscosity at 100°C (212°F)	5.2 cSt
Viscosity Index	180
Pour Point	- 31°C (-24°F)
Flash Point	205°C (401°F)

- Check and verify the oil level. If necessary, fill again.
- Tighten the filler cap well.

LIFT-RITE

Blocking Procedure for Personnel Lifter Maintenance



WARNING: Crushing hazard: Do not inspect or initiate repair on the rear part of the unit unless the operator compartment is supported by a 4×4 in. (0.1 $\times 0.1$ m) square section wood block that is between 30 and 40 in. (0.76 and 1.02 m) tall. The integrity of the wood block should be visually inspected to make sure there are no cracks, crookedness, bowing, or other compromising features.



- Using the Service Controls, lift the operator compartment to a height that will enable cover removal and wood block installation.
- Remove the front and rear covers.
- Position the 4 x 4 (0.1 x 0.1 m) square section wood block between the lower frame and the operator compartment and adjacent to the mast assembly.
- Lower the operator compartment onto the wood block. Make sure that the block is secured and prevents any movement of the operator platform.
- Take caution against dislodging the wood block while performing inspection and maintenance on the personnel lifter.

BATTERY INSPECTION AND MAINTENANCE PROCEDURE



WARNING: Crushing Hazard: Do not inspect or initiate repair on the rear part of the unit unless the operator compartment is supported by a 4×4 in. (0.1 \times 0.1 m) square section wood block that is between 30 and 40 in. (0.76 and 1.02 m) tall. The integrity of the wood block should be visually inspected to make sure there are no cracks, crookedness, bowing, or other compromising features.

BATTERY SAFETY



WARNING: Explosive hydrogen gas forms when a battery is charging. An open flame or spark can cause this gas to explode. Serious personal injury or property damage could occur. This can happen even hours after charging. Ventilate the area to eliminate this hazard.



WARNING: The battery contains sulfuric acid, which causes burns to skin and clothing. If battery acid contacts your clothing or skin, flush the area immediately with cold water. If battery acid gets in your face or eyes, flush the area with cold water immediately and get medical attention.

- 1. Wear personal protective equipment for eyes, face, and skin. This equipment includes goggles or face shield, rubber gloves (with or without arm shields), and a rubber apron. Make sure a shower and eye wash station are nearby.
- 2. Do not smoke, use open flames, or use devices that produce sparks.
- 3. Ventilate the battery charging area.
- 4. Never lay tools or metal objects on top of the battery. A short circuit could cause the battery to explode.
- 5. Keep batteries, filler plugs, terminals, cables, and connectors clean and in good condition.
- 6. Keep filler plugs firmly in place except when checking the battery or adding water to the cells.
- 7. Make sure the vent holes in the filler plugs are open.
- 8. Do not let cleaning solution, dirt, or any foreign matter enter the cells.
- 9. Charge batteries at specified intervals.

BEFORE PERFORMING ANY PROCEDURES ON THE BATTERIES, disconnect the main red connector under the rear cover.



Battery Terminals Inspection/Maintenance

If oxidation or grime build-up is found during the inspection of the battery terminal connectors on the personnel lifter, proceed as follows:

- Disconnect the terminal connectors and clean them with a rag, wet with water. If the oxidation layer is particularly thick, brush off the top layer and clean them with a rag wet with water.
- Dry the terminal connectors well.
- Put the connectors back in their place, paying close attention to the correct positive/negative pole connection, then tighten.
- Coat the terminal connectors with a protective lubricant for electrical contacts (such as a lubricant with a Pharmaceutical Vaseline oil base).

Battery Water Inspection

42

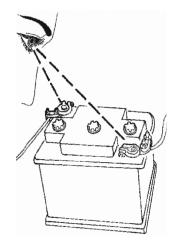
The inspection of the battery water level is to be performed every 4 working days or AFTER each and every battery recharge.

It is possible to check the levels by lifting the cover.

The water level must always be at least 0.2 in. (5 mm) above the internal element plates. If necessary, fill with demineralized water.

Given that part of the water evaporates during recharging, it is necessary to check the level again after 30 minutes of work.

Perform the job for 30 minutes, and then repeat the battery check and fill until the proper level is achieved.



Dead Battery Mitigation



WARNING: Travel is prohibited while following the procedure below.

If the battery is dead on the personnel lifter and cannot lift the operator compartment, to access battery proceed as follows:

Use the following for the procedures below:

- 1. Bypass Harness (303.SB175)
- 2. 12 V Battery
- Remove the front cover.



• Unplug the red connectors.



LIFT-RITE®

• Connect the terminals to a known good battery first, then plug the harness in.





44

WARNING: Crushing Hazard: Do not inspect or initiate repair on the rear part of the unit unless the operator compartment is supported by a 4×4 in. (0.1 \times 0.1 m) square section wood block that is between 30 and 40 in. (0.76 and 1.02 m) tall. The integrity of the wood block should be visually inspected to make sure there are no cracks, crookedness, bowing, or other compromising features.

• Raise the platform from the service controls.

PERSONNEL LIFTER CLEANING

As the personnel lifter works in presence of dusts, it is necessary to clean it daily or sooner if needed.

Before each cleaning operation, switch off the key switch.

Use a cloth slightly dampened with water to perform the cleaning on the external surfaces.

DAILY INSPECTION CHECKLIST



WARNING: To avoid possible injuries, the electrical power supply of the personnel lifter shall be turned off during the visual inspection.

WARNING: If the personnel lifter does not function properly, or fails any part of the daily checklist, turn it off immediately. Notify maintenance personnel of the problem. Do not use the personnel lifter until it has been declared suitable for safe operation.



CAUTION: Do not neglect the visual inspection and operational inspection for any portion of the personnel lifter.



WARNING: Check and verify that there are no foreign objects or debris present that could cause serious damage to the personnel lifter.

Daily Record (Perform these checks at the start of each shift)			
Model:	Serial Number:	Operator:	
Shift Number:	Personnel Lifter Number:	Date:	
Mark Each Box OK or R/A (Repair/Adjust)			

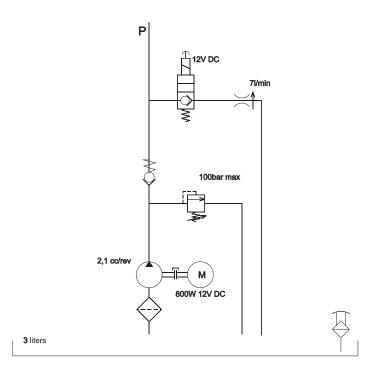
	Visual Inspection: Key Switch Turned OFF (O)	Mark
V-1	PERSONNEL LIFTER	
	No cracks or damage in welds or frame	
	Examine personnel lifter for loose or missing hardware	
V-2	WHEELS AND TIRES	
	 No gouges, chunking, other damage, or flat spots 	
	No foreign objects or debris attached to or around the tires or wheels	
V-3	LIFT/LOWER SYSTEM	
	No loose parts	
	No leaks; also check floor under personnel lifter for any dripping fluid	
	Visually inspect hydraulic fluid level, electrical and mechanical components	
	• No wires or cables have come loose or hang from the underside of the personnel lifter	
	Buttons move smoothly without binding and return to neutral when released	
V-4	DEADMAN PEDAL	
	Moves smoothly without binding	
	Returns to neutral when released	

	Visual Inspection: Key Switch Turned OFF (O)	Mark
V-5	ENABLE BUTTON	
	Moves smoothly without binding	
	Returns to neutral when released	
		T
V-6	GUARDS, COVERS, DECALS	
	 All guards and covers installed correctly and securely 	
	Decals in place and readable	
	Specification and Capacity tags in place and readable	
V-7	OTHER	
	All plugs, terminals, cables, and receptacles in good condition	
	Check operator compartment and the operator compartment railings for damage or cracks	
	Operator compartment gate shuts	
	Check that all manuals are in the weather resistant container	
	Check all safety and personnel protection devices function properly	

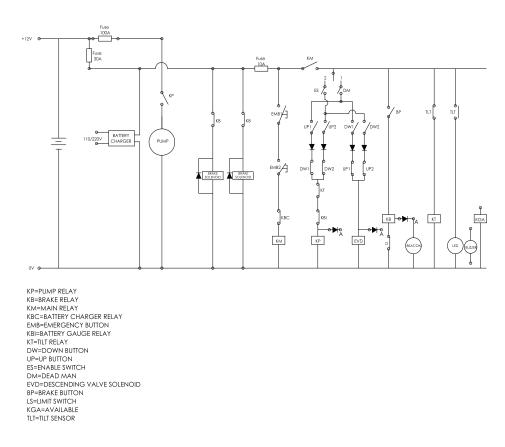
	Operational Inspection: Key Switch Turned ON (I)	Mark
0-1	BATTERY	
	Charged	
0-2	EMERGENCY STOP BUTTON	
	Applies brake and disables Lift/Lower functions when pressed	
0-3	DEADMAN PEDAL	
	Disables lift/lower functions when released	
		1
0-4	ENABLE BUTTON	
	Disables lift/lower functions when released	
0-5	BRAKE BUTTON	
0-5	Check and verify correct operation	
0-6	LIFT/LOWER/TRAVEL SYSTEM	
	All controls perform their functions correctly and smoothly	
	• Check and verify the correct operation of the key switch on the platform command console	

	Operational Inspection: Key Switch Turned ON (I)	Mark	
0-7	SAFETY		
	Emergency lower lever operates properly		
	All warning and working lights operate correctly		
	All limit switches operate correctly		
	Tilt sensor and level indicator light operate correctly		
	Gates operate correctly		
COMI	COMMENTS:		

HYDRAULIC SCHEMATIC



WIRING DIAGRAM



TROUBLESHOOTING

If you have a problem with your personnel lifter, use the table below to decide what to do. Do *not* try to service this personnel lifter unless you are properly trained and authorized to do so. Contact your Service Department or local authorized Lift-Rite Dealer listed on the back of this manual.

Problem	Procedure
Nothing happens when the key switch is turned ON.	Check the battery and battery connections. Check that the emergency stop buttons are not pressed. Contact the Service Department.
Battery discharges quickly or does not indicate a full charge after charging.	Even though a battery has been fully recharged, it may not display 100% on the battery gauge. The maximum value displayed depends upon the battery's type, age, and condition. Try another battery. If the same problem happens again, contact the Service Department.
Any system malfunction (no travel, lift, or lower function).	Contact the Service Department.

LIFT-RITE[®] SpinGo WARRANTY CERTIFICATE

Your new SpinGo is warranted against defects in materials and workmanship as follows:

Components found to be defective by the product manufacturer or an authorized *SpinGo LIFT-RITE* Dealer during 1) the first year after delivery of the *SpinGo* will be replaced or repaired and 2) the second year after delivery of the *SpinGo* will be exchanged upon receipt of the defective component for a replacement part. Notwithstanding the foregoing, mast components (hydraulic cylinder and mast only) found to be defective by the product manufacturer or an authorized *SpinGo LIFT-RITE* Dealer will be exchanged upon receipt of a replacement for a replacement part at any time during the lifetime of the *SpinGo.*

Components other than mast components replaced or repaired during the warranty periods above will be warranted for the balance of the applicable warranty period, or 90 days, whichever is longer. Mast components replaced during the warranty period will be warranted for 90 days. Transportation of the product to and from a *SpinGo LIFT-RITE* authorized dealer, local taxes, and customs charges, if any, and labor to install replacement components more than one year after delivery are excluded.

This warranty does not apply to oil leaks, adjustments, or loose hardware.

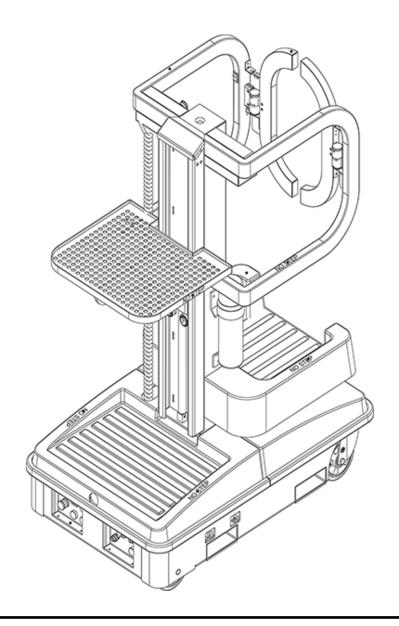
This warranty is void in the event of defects or damage caused by lack of scheduled maintenance (as described in the Service Manual or *LIFT-RITE* service information), misuse, abuse, accident, or impact.

LIFT-RITE reserves the right to make changes and improvements in design without making changes to previously manufactured products of the same description. Notwithstanding any other language contained herein, this warranty is expressly voided without any further notice if any modification is made to the *LIFT-RITE* product, or if additional components or devices are added to the *LIFT-RITE* product, without prior approval having been granted in writing by *LIFT-RITE*.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED, IMPLIED, OR STATUTORY. THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event shall *LIFT-RITE* be liable for incidental, special, or consequential damages.

Replacement Parts

Lift-Rite SpinGo



Model Lift-Rite SpinGo **Serial Number**

Nov 28, 2016

Generated Nov 28, 2016

Table of Contents	
SECTION 1 General Information	
Critical	1-2 1-3
SECTION 2 Finish & Accessories	
Major Assemblies	
Decals and Covers	
SECTION 3 Steering & Controls	
SECTION 4 Drive & Brake	4-2
SECTION 5 Electrical Comp. & System	
Chassis Parts	5-2
Fuses and Horn	
SECTION 6 Hydraulic Components	
Hydraulic Components	6-2
SECTION 7 Mast	
SECTION 8 Options & Kits	
APPENDIX A Alphabetical Parts Index	
APPENDIX B Numerical Parts Index	

SECTION 1 General Information

Critical	 1-2
Recommended	 1-3

Critical

SERVICE TYPE	PART NUMBER	DESCRIPTION	SERVICE GROUP	ITEM NO.	QTY			
С	301.12001	Battery	501	5	2			
С	302.12010	Charger, Battery	501	6	1			
С	703.2002	Cylinder Assembly, Lift	601	5	1			
С	701.0006	Power Unit, Hydraulic	601	1	1			
С	318.0002	Solenoid, Brake	501	7	1			
Service Typ	Service Type C = Critical Part							

List 1-C: Critical

Recommended

SERVICE TYPE	PART NUMBER	DESCRIPTION	SERVICE GROUP	ITEM NO.	QTY			
R	102.6004A	Bearing	202	2	4			
R	102.6304A	Bearing	202	3	4			
R	251.0019	Bearing, Pin	202	1	4			
R	309.24010	Fuse, 10 Amp	502	8	1			
R	311.0007	Horn 12V	502	9	1			
R	311.0012	Indicator Lamp, Charger	501	16	1			
R	316. E21365	Кеу	501	14	1			
R	108.05	Lever, Emergency	601	4	1			
R	315.0003	Relay	502	5	4			
R	310.0270	Sensor, Tilt	501	10	1			
R	108.9007	Spring, Gas	202	4	1			
R	315.9003	Switch	501	12	1			
R	316.0021	Switch, Emergency	202	14	1			
R	316.0018	Switch, Key	501	15	1			
R	316.0013	Switch, N.C.	202	17	1			
R	316.0012	Switch, N.O.	202	16	1			
R	702.0001	Valve, Pull, Emergency	601	2	1			
R	100.B160050TR	Wheel, Caster	401	2	2			
R	100.A160050TR	Wheel, Front	401	1	2			
Service Typ	Service Type R = Recommended Spare							

List 1-R: Recommended

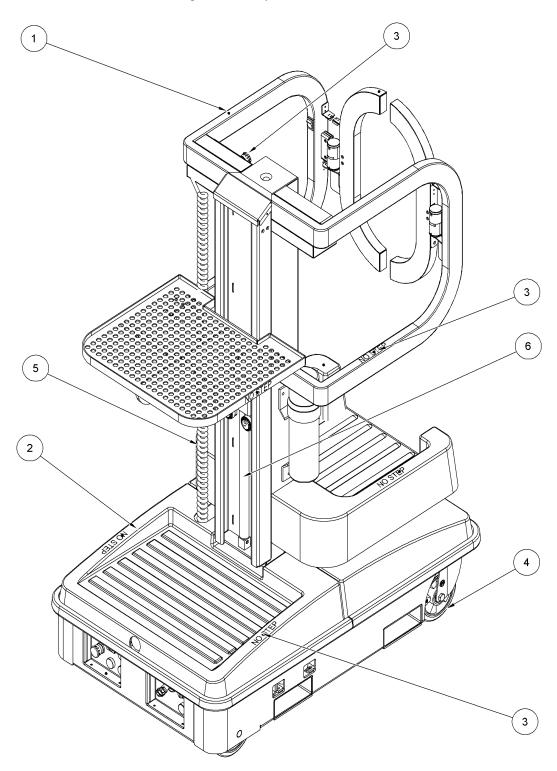
SECTION 2 Finish & Accessories

Major Assemblies	2-2
Platform Assembly	2-4
Bumpers	2-6
Decals and Covers	2-8

Major Assemblies

Major Assemblies

Figure 2-1: Major Assemblies



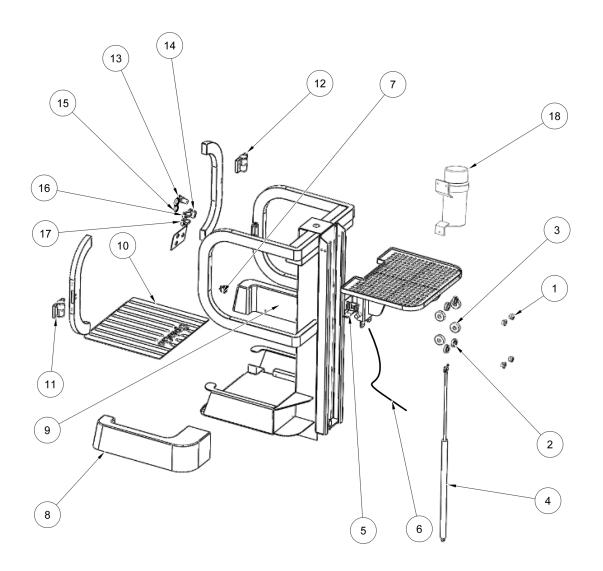
Major Assemblies

FIGURE 2-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	SERVICE TYPE	USED ON
			Major Assemblies		
1		Ref.	Frame (See 202)		
2		Ref.	Covers (See 204)		
3		Ref.	Decals (See 204)		
4		Ref.	Wheels (See301)		
5		Ref.	Electrical (See 501)		
6		Ref.	Hydraulic (See 601)		

List 2-1: Major Assemblies

Platform Assembly

Figure 2-2: Platform Assembly



Platform Assembly

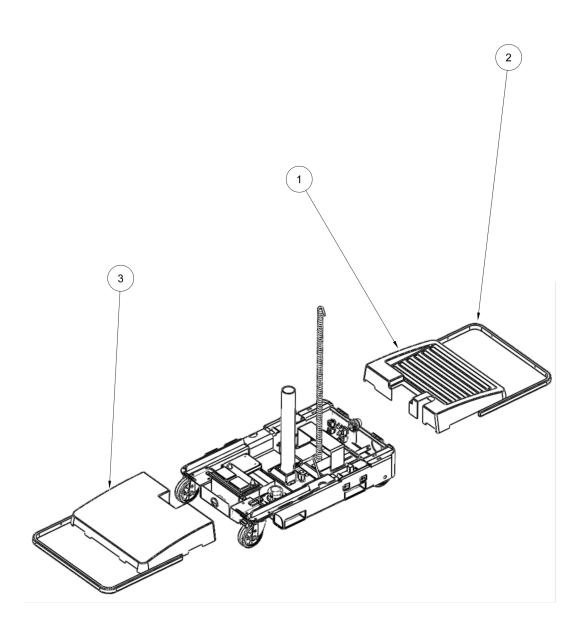
FIGURE 2-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	SERVICE TYPE	USED ON
			Platform Assembly		
1	4	251.0019	Bearing, Pin	R	
2	4	102.6004A	Bearing	R	
3	4	102.6304A	Bearing	R	
4	1	108.9007	Spring, Gas	R	
5	1	108.9009	Lever, Tray		
6	1	108.9008	Cable, Lever		
7	1	316.0026	Button, Brake Release		
8	1	1243345/001	Cover, Right Basket Yellow		
	1	1243345/002	Cover, Right Basket Black, Chrome		
9	1	1243344/001	Cover, Left Basket Yellow		
	1	1243344/002	Cover, Left Basket Black, Chrome		
10	1	501.08002	Mat, Basket, Rubber		
11	1	104.0005	Hinge, Clockwise		
12	1	104.0004	Hinge, Counterclockwise		
13	1	316.0022	Button, Push, Emergency		
14	1	316.0021	Switch, Emergency	R	
15	1	316.0002	Button, Green		
16	1	316.0012	Switch, N.O.	R	
17	1	316.0013	Switch, N.C.	R	
18	1	508.0003	Box, Manual		
Service Type R =	= Reco	mmended Spare			

List 2-2: Platform Assembly

Bumpers

Bumpers

Figure 2-3: Bumpers



Bumpers

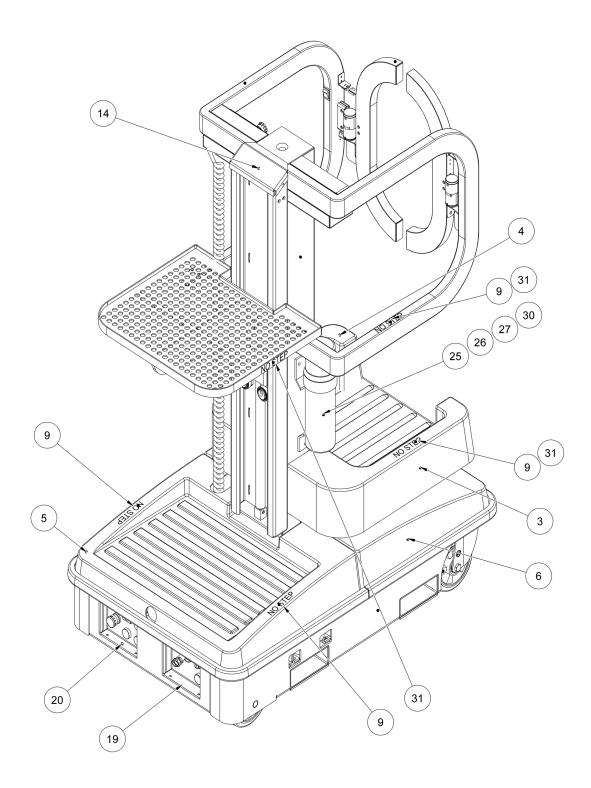
FIGURE 2-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	SERVICE TYPE	USED ON
			Bumpers		
			Figure 3		
1	1	Ref.	Cover, Front (See 204)		
2	2	501.08001	Bumper		
3	1	Ref.	Cover, Rear (See 204)		

List 2-3: Bumpers

Decals and Covers

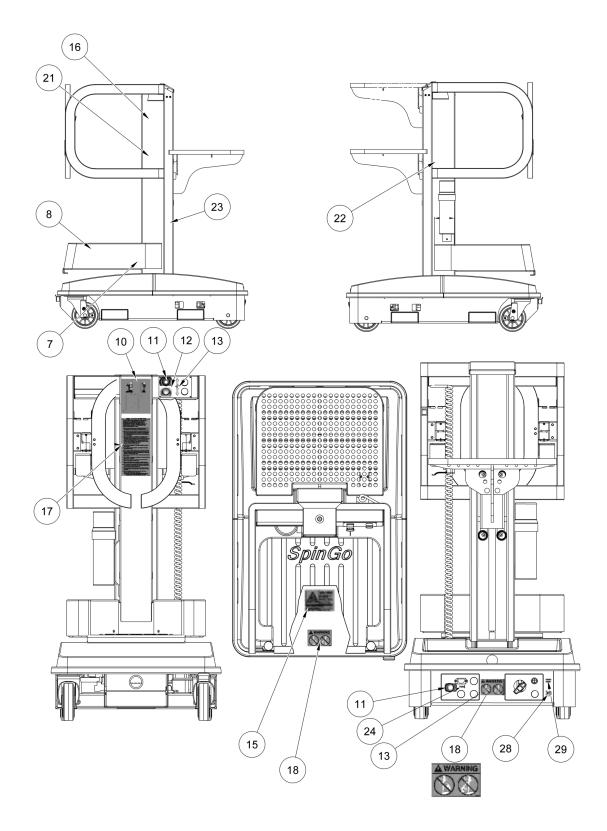
Decals and Covers

Figure 2-4.a: Decals and Covers



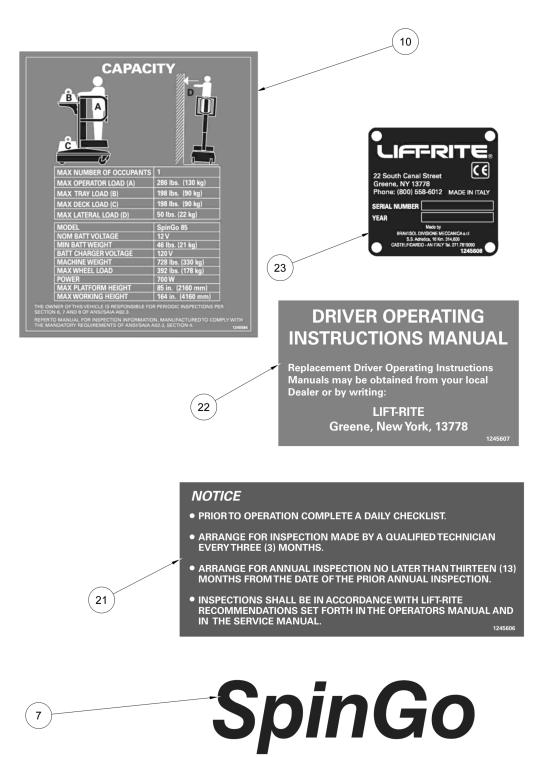
Decals and Covers

Figure 2-4.b: Decals and Covers



Decals and Covers

Figure 2-4.c: Decals and Covers



Decals and Covers

Figure 2-4.d: Decals and Covers

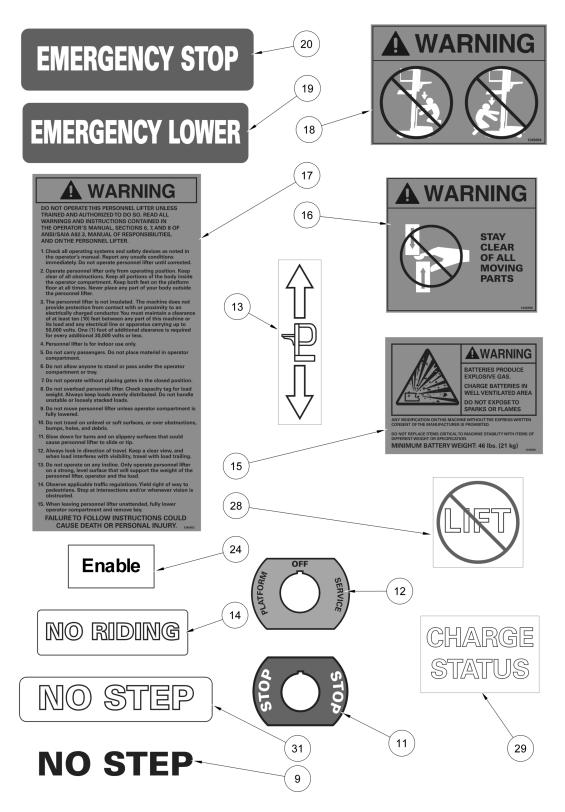


FIGURE 2-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	SERVICE TYPE	USED ON
			Decals and Covers		
3	1	1243344/001	Cover, Left Basket, Yellow		
	1	1243344/002	Cover, Left Basket, Black Chrome		
4	1	1243345/001	Cover, Right Basket, Yellow		
	1	1243345/002	Cover, Right Basket, Black Chrome		
5	1	1243347/001	Cover, Front, Yellow		
	1	1243347/002	Cover, Front, Black Chrome		
6	1	1243348/001	Cover, Rear, Yellow		
	2	1243348/001	Cover, Rear, Black Chrome		
7	2	1241771/001	Decal, Logo, Black		
8	2	1241771/002	Decal, Logo, White, Not Shown		
	2	PL-20501	Decal, Lift-Rite		
9	6	1241731/001	Decal, No Step		
10	1	1245584	Decal, Capacity		
11	2	1245585	Decal, Stop		
12	1	1245586	Decal, Keyswitch		
13	2	1245587	Decal, Lift/Lower		
14	1	1245588	Decal, No Riding		
15	1	1245589	Decal, Warning		
16	2	1245590	Decal, Warning		
17	1	1245602	Decal, Warning		
18	2	1245604	Decal, Warning		
19	1	1245605	Decal, Emergency Lower		
20	1	1245826	Decal, Emergency Stop		
21	1	1245606	Decal, Notice		
22	1	1245607	Decal, Operating Manual		
23	1	1245608	Tag, Specification		
24	1	1245601	Decal Enable		
25	1	1247985	Manual, Installation		
26	1	1239530	Manual, Operator		
27	1	1253145	Reference Guide, M.R.		
28	1	1245603	Decal, No Lift		
29	1	1253646	Decal, Charge Status		
30	1	1251955	Suppliment Part, Daily Checklist		
31	8	1241731/002	Decal, No Step		

List 2-4: Decals and Covers

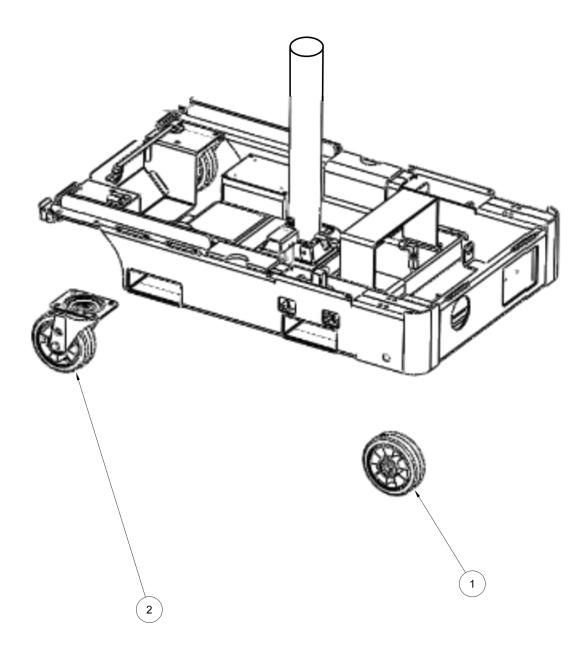
SECTION 3 Steering & Controls

SECTION 4 Drive & Brake

s 4-2



Figure 4-1: Wheels



Wheels

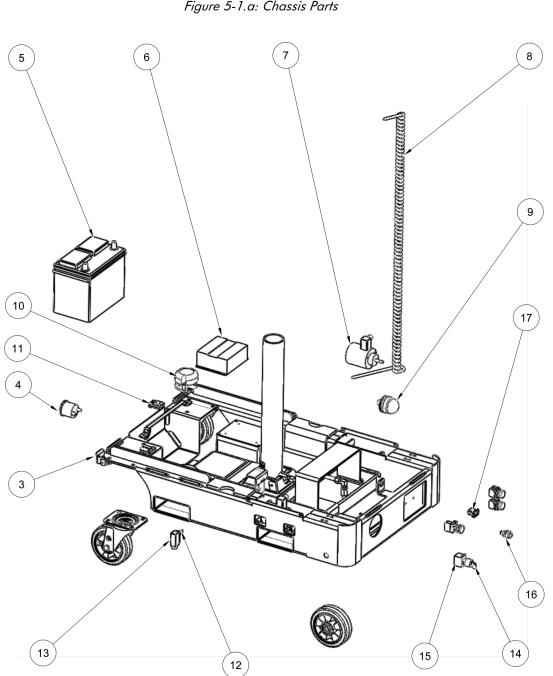
List 4-1: Wheels

FIGURE 4-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	SERVICE TYPE	USED ON
			Wheels		
1	2	100.A160050TR	Wheel, Front	R	
2	2	100.B160050TR	Wheel, Caster	R	
Service Type R =	= Reco	mmended Spare			

SECTION 5 Electrical Comp. & System

Chassis Parts	5-2
Fuses and Horn	5-5

Chassis Parts



Chassis Parts

Figure 5-1.a: Chassis Parts

18 19

Chassis Parts

Figure 5-1.b: Chassis Parts

Chassis Parts

FIGURE 5-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	SERVICE TYPE	USED ON
			Chassis Parts		
3	1	108.9006	Lever, Pedal		
4	1	311.0005	Gauge, Battery		
5	2	301.12001	Battery	С	
6	1	302.12010	Charger, Battery	С	
7	1	318.0002	Solenoid, Brake	С	
8	1	312.090950	Cable, Coil		
9	1	311.0006	Horn		
10	1	310.0270	Sensor, Tilt	R	
11	5	303.SB0502PR	Connector, Red, Battery		
12	1	315.9003	Switch	R	
13	1	315.9002	Cover, Switch		
14	1	316. E21365	Кеу	R	
15	1	316.0018	Switch, Key	R	
16	1	311.0012	Indicator Lamp, Charger	R	
17	1	303.IEC0001	Socket, Power		
18	1	303.SB175	Harness, Battery, Jumper		
19	1	304.0010	Cord, Charging		
ervice Type R =	= Reco	mmended Spare			

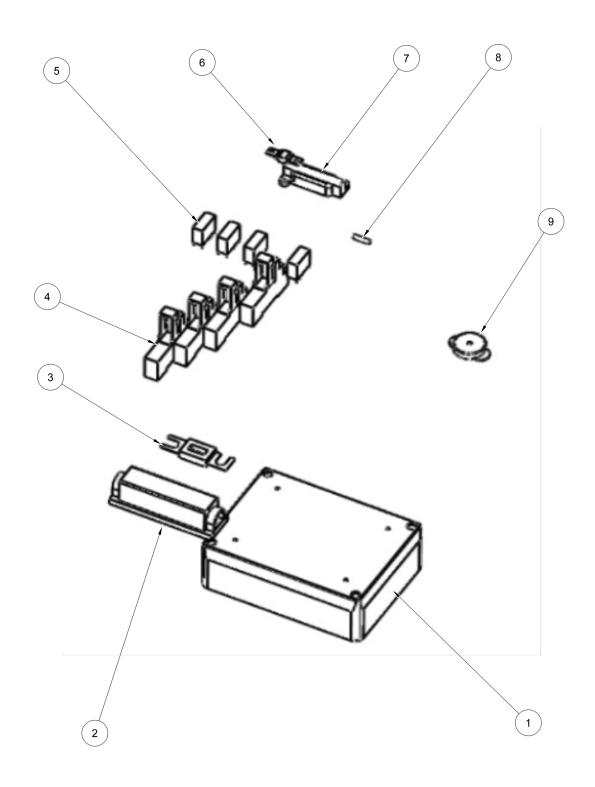
List 5-1: Chassis Parts

Service Type C = Critical Part

Fuses and Horn



Figure 5-2: Fuses and Horn



Fuses and Horn

FIGURE 5-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	SERVICE TYPE	USED ON		
			Fuses and Horn				
1	1	304.GW44207	Housing, Plastic				
2	1	309.1001	Holder, Fuse, 100 Amp	Holder, Fuse, 100 Amp			
3	1	309.80100	Fuse, 100 Amp				
4	1	315.0002	Holder, Relay				
5	4	315.0003	Relay	R			
6	1	309.32030	Fuse, 30A				
7	1	309.1003	Holder, Fuse, 30 Amp	Holder, Fuse, 30 Amp			
8	1	309.24010	Fuse, 10 Amp	R			
9	1	311.0007	Horn 12V R				
Service Type R =	= Reco	mmended Spare					

List 5-2: Fuses and Horn

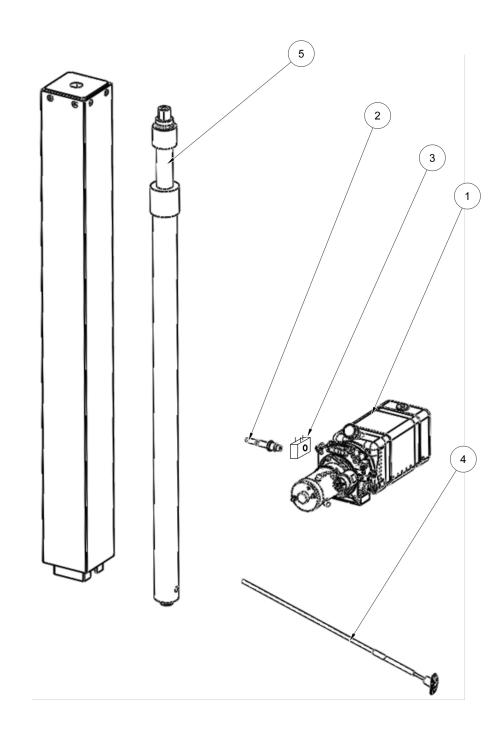
SECTION 6 Hydraulic Components

Hydraulic Components		6-2
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Hydraulic Components

Hydraulic Components

Figure 6-1: Hydraulic Components



Hydraulic Components

FIGURE 6-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	SERVICE TYPE	USEE ON
			Hydraulic Components		
1	1	701.0006	Power Unit, Hydraulic	С	
2	1	702.0001	Valve, Pull, Emergency	R	
3	1	306.0012H	Coil, Solenoid 12 V		
4	1	108.05	Lever, Emergency	R	
5	1	703.2002	Cylinder Assembly, Lift	С	

List 6-1: Hydraulic Components

Service Type C = Critical Part

SECTION 7 Mast

SECTION 8 Options & Kits

APPENDIX A Alphabetical Parts Index

Description	Part No.	Page	Description	Part No.	Page
Battery	301.12001	1-2	Figure 3		2-7
Battery	301.12001	5-4	Fuse, 10 Amp	309.24010	1-3
Bearing	102.6004A	1-3	Fuse, 10 Amp	309.24010	5-6
Bearing	102.6304A	1-3	Fuse, 100 Amp	309.80100	5-6
Bearing	102.6004A	2-5	Fuse, 30A	309.32030	5-6
Bearing	102.6304A	2-5	Fuses and Horn		5-6
Bearing, Pin	251.0019	1-3	Gauge, Battery	311.0005	5-4
Bearing, Pin	251.0019	2-5	Harness, Battery, Jumper	303.SB175	5-4
Box, Manual	508.0003	2-5	Hinge, Clockwise	104.0005	2-5
Bumper	501.08001	2-7	Hinge, Counterclockwise	104.0004	2-5
Bumpers		2-7	Holder, Fuse, 100 Amp	309.1001	5-6
Button, Brake Release	316.0026	2-5	Holder, Fuse, 30 Amp	309.1003	5-6
Button, Green	316.0002	2-5	Holder, Relay	315.0002	5-6
Button, Push, Emergency	316.0022	2-5	Horn	311.0006	5-4
Cable, Coil	312.090950	5-4	Horn 12V	311.0007	1-3
Cable, Lever	108.9008	2-5	Horn 12V	311.0007	5-6
Charger, Battery	302.12010	1-2	Housing, Plastic	304.GW44207	5-6
Charger, Battery	302.12010	5-4	Hydraulic Components		6-3
Chassis Parts	00/ 001011	5-4	Indicator Lamp, Charger	311.0012	1-3
Coil, Solenoid 12 V	306.0012H	6-3	Indicator Lamp, Charger	311.0012	5-4
Connector, Red, Battery	303.SB0502PR	5-4	Кеу	316. E21365	1-3
Cord, Charging	304.0010	5-4	Key	316. E21365	5-4
Cover, Front, Black Chrome	1243347/002	2-12	Lever, Emergency	108.05	1-3
Cover, Front, Yellow	1243347/001	2-12	Lever, Emergency	108.05	6-3
Cover, Left Basket Black, Chrome	1243344/002	2-5	Lever, Pedal	108.9006	5-4
Cover, Left Basket Yellow	1243344/001	2-5	Lever, Tray	108.9009	2-5
Cover, Left Basket, Black Chrome	1243344/002	2-12	Major Assemblies		2-3
Cover, Left Basket, Yellow	1243344/001	2-12	Manual, Installation	1247985	2-12
Cover, Rear, Black Chrome	1243348/001	2-12	Manual, Operator	1239530	2-12
Cover, Rear, Yellow	1243348/001	2-12	Mat, Basket, Rubber	501.08002	2-5
Cover, Right Basket Black, Chrome	1243345/002	2-5	Platform Assembly	701.0007	2-5
Cover, Right Basket Yellow	1243345/001	2-5	Power Unit, Hydraulic	701.0006	1-2
Cover, Right Basket, Black Chrome	1243345/002	2-12	Power Unit, Hydraulic	701.0006	6-3
Cover, Right Basket, Yellow	1243345/001	2-12 5-4	Reference Guide, M.R.	1253145	2-12
Cover, Switch	315.9002		Relay	315.0003	1-3 5-6
Cylinder Assembly, Lift	703.2002 703.2002	1-2	Relay	315.0003	
Cylinder Assembly, Lift Decal Enable	1245601	6-3 2-12	Sensor, Tilt	310.0270 310.0270	1-3 5-4
	1245826	2-12	Sensor, Tilt Socket, Power	303.IEC0001	5-4
Decal, Emergency Stop	1245584	2-12	Solenoid, Brake	318.0002	1-2
Decal, Capacity Decal, Charge Status	1253646	2-12	Solenoid, Brake	318.0002	5-4
Decal, Emergency Lower	1245605	2-12	Spring, Gas	108.9007	1-3
Decal, Keyswitch	1245586	2-12	Spring, Gas	108.9007	2-5
Decal, Lift-Rite	PL-20501	2-12	Suppliment Part, Daily Checklist	1251955	2-12
Decal, Lift/Lower	1245587	2-12	Switch	315.9003	1-3
Decal, Logo, Black	1243387	2-12	Switch	315.9003	5-4
Decal, Logo, White, Not Shown	1241771/001	2-12	Switch, Emergency	316.0021	1-3
Decal, No Lift	1245603	2-12	Switch, Emergency	316.0021	2-5
Decal, No Riding	1245588	2-12	Switch, Key	316.0018	1-3
Decal, No Step	1243388	2-12	Switch, Key	316.0018	5-4
Decal, No Step	1241731/001	2-12	Switch, N.C.	316.0013	1-3
Decal, No Step Decal, Notice	1241/31/002	2-12	Switch, N.C.	316.0013	2-5
Decal, Notice Decal, Operating Manual	1245607	2-12	Switch, N.O.	316.0013	1-3
Decal, Stop	1245585	2-12	Switch, N.O.	316.0012	2-5
Decal, Stop Decal, Warning	1245589	2-12	Tag, Specification	1245608	2-5
Decal, Warning Decal, Warning	1245590	2-12		702.0001	1-3
Decal, Warning Decal, Warning	1245590	2-12	Valve, Pull, Emergency Valve, Pull, Emergency	702.0001	6-3
Decal, Warning Decal, Warning	1245602	2-12	Wheel, Caster	100.B160050TR	0-3 1-3
	174.1014		WHEEL CUSIEL		13

Description	Part No.	Page
Wheel, Front	100.A160050TR	1-3
Wheel, Front	100.A160050TR	4-3
Wheels		4-3

APPENDIX B Numerical Parts Index

Part No.	Description	Page	Part No.	Description	Page
100.A160050TR	Wheel, Front	1-3	302.12010	Charger, Battery	5-4
100.A160050TR	Wheel, Front	4-3	303.IEC0001	Socket, Power	5-4
100.B160050TR	Wheel, Caster	1-3	303.SB0502PR	Connector, Red, Battery	5-4
100.B160050TR	Wheel, Caster	4-3	303.SB175	Harness, Battery, Jumper	5-4
102.6004A	Bearing	1-3	304.0010	Cord, Charging	5-4
102.6004A	Bearing	2-5	304.GW44207	Housing, Plastic	5-6
102.6304A	Bearing	1-3	306.0012H	Coil, Solenoid 12 V	6-3
102.6304A	Bearing	2-5	309.1001	Holder, Fuse, 100 Amp	5-6
104.0004	Hinge, Counterclockwise	2-5	309.1003	Holder, Fuse, 30 Amp	5-6
104.0005	Hinge, Clockwise	2-5	309.24010	Fuse, 10 Amp	1-3
108.05	Lever, Emergency	1-3	309.24010	Fuse, 10 Amp	5-6
108.05	Lever, Emergency	6-3	309.32030	Fuse, 30A	5-6
108.9006	Lever, Pedal	5-4	309.80100	Fuse, 100 Amp	5-6
108.9007	Spring, Gas	1-3	310.0270	Sensor, Tilt	1-3
108.9007	Spring, Gas	2-5	310.0270	Sensor, Tilt	5-4
108.9008	Cable, Lever	2-5	311.0005	Gauge, Battery	5-4
108.9009	Lever, Tray	2-5	311.0006	Horn	5-4
1239530	Manual, Operator	2-12	311.0007	Horn 12V	1-3
1241731/001	Decal, No Step	2-12	311.0007	Horn 12V	5-6
1241731/002	Decal, No Step	2-12	311.0012	Indicator Lamp, Charger	1-3
1241771/001	Decal, Logo, Black	2-12	311.0012	Indicator Lamp, Charger	5-4
1241771/002	Decal, Logo, White, Not Shown	2-12	312.090950	Cable, Coil	5-4
1243344/001	Cover, Left Basket Yellow	2-5	315.0002	Holder, Relay	5-6
1243344/001	Cover, Left Basket, Yellow	2-12	315.0003	Relay	1-3
1243344/002	Cover, Left Basket Black, Chrome	2-5	315.0003	Relay	5-6
1243344/002	Cover, Left Basket, Black Chrome	2-12	315.9002	Cover, Switch	5-4
1243345/001	Cover, Right Basket Yellow	2-5	315.9003	Switch	1-3
1243345/001	Cover, Right Basket, Yellow	2-12	315.9003	Switch	5-4
1243345/002	Cover, Right Basket Black, Chrome	2-5	316. E21365	Кеу	1-3
1243345/002	Cover, Right Basket, Black Chrome	2-12	316. E21365	Кеу	5-4
1243347/001	Cover, Front, Yellow	2-12	316.0002	Button, Green	2-5
1243347/002	Cover, Front, Black Chrome	2-12	316.0012	Switch, N.O.	1-3
1243348/001	Cover, Rear, Yellow	2-12	316.0012	Switch, N.O.	2-5
1243348/001	Cover, Rear, Black Chrome	2-12	316.0013	Switch, N.C.	1-3
1245584	Decal, Capacity	2-12	316.0013	Switch, N.C.	2-5
1245585	Decal, Stop	2-12	316.0018	Switch, Key	1-3
1245586	Decal, Keyswitch	2-12	316.0018	Switch, Key	5-4
1245587	Decal, Lift/Lower	2-12	316.0021	Switch, Emergency	1-3
1245588	Decal, No Riding	2-12	316.0021	Switch, Emergency	2-5
1245589	Decal, Warning	2-12	316.0022	Button, Push, Emergency	2-5
1245590	Decal, Warning	2-12	316.0026	Button, Brake Release	2-5
1245601	Decal Enable	2-12	318.0002	Solenoid, Brake	1-2
1245602	Decal, Warning	2-12	318.0002	Solenoid, Brake	5-4
1245603	Decal, No Lift	2-12	501.08001	Bumper	2-7
1245604	Decal, Warning	2-12	501.08002	Mat, Basket, Rubber	2-5
1245605	Decal, Emergency Lower	2-12	508.0003	Box, Manual	2-5
1245606	Decal, Notice	2-12	701.0006	Power Unit, Hydraulic	1-2
1245607	Decal, Operating Manual	2-12	701.0006	Power Unit, Hydraulic	6-3
1245608	Tag, Specification	2-12	702.0001	Valve, Pull, Emergency	1-3
1245826	Decal, Emergency Stop	2-12	702.0001	Valve, Pull, Emergency	6-3
1247985	Manual, Installation	2-12	703.2002	Cylinder Assembly, Lift	1-2
1251955	Suppliment Part, Daily Checklist	2-12	703.2002	Cylinder Assembly, Lift	6-3
1253145	Reference Guide, M.R.	2-12	PL-20501	Decal, Lift-Rite	2-12
1253646	Decal, Charge Status	2-12			
251.0019	Bearing, Pin	1-3			
251.0019	Bearing, Pin	2-5			
301.12001	Battery	1-2			
301.12001	Battery	5-4			
302.12010	Charger, Battery	1-2			

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