Ezy-Lift™

Ezy-Lift™ for John Deere ProGator™
SAFETY, INSTALLATION, OPERATION & MAINTENANCE

OM EZJDPG C-2011

OWNER'S MANUAL

MODEL PG850

LIFT

LOAD

GO.....

UNLOAD

TABLE OF CONTENTS

INTRODUCTION

Using your Operator's Manual

Read this entire Operator's Manual, especially the Safety Information, before operating.

This Manual is an important part of your machine.

Keep all Manuals in a convenient location so they can be accessed easily.

Use the Safety and Operating information in both the Ezy-Lift™ Operator's Manual and the Machine Operator's Manual to operate and service the unit safely and correctly.

If your ProGator™ Manual has a section called "Preparing the Machine", it means that you may need to do something additional to your ProGator™ before you can install the Ezy-Lift™ system.

The Assembly and Installation sections of this Manual provide information to assemble and install the Ezy-Lift™ system into the cargo box of your vehicle.

Refer to the Service section if any adjustments are required.

If you have any questions or concerns with the assembly, installation or operation of the unit, contact your Ezy-Lift™ System Representative or

Ezy-Lift™ CUSTOMER CONTACT CENTER:

1-866-943-2282

PRODUCT IDENTIFICATION

Product Compatibility

The Ezy-Lift™ System PG850 is compatible with ProGator™ utility vehicles with the following Serial Numbers;

TC202AT010001 and above
TC202AF010001 and above
TC203AT010001 and above
TC203AF010001 and above

When contacting the Ezy-Lift™ Customer Contact Center for information on servicing, always provide the Product Serial Number (located above the system On/Off Switch) and Date of Purchase.

Locate the Product Serial Number and record all relevant information in the spaces below.

DATE OF PURCHASE:
_____

DEALER NAME:
_____

DEALER PHONE:
_____

PRODUCT SERIAL NUMBER:
_____

SAFETY

CAUTION

READ THIS ENTIRE OPERATOR'S MANUAL BEFORE BEGINNING WORK

ALWAYS WEAR SAFETY GLASSES AND USE CARE WHEN WORKING WITH POWER TOOLS

Safety is a primary concern in the design and manufacturing of Ezy-Lift™ products. Unfortunately, all efforts to provide safe equipment can be totally negated by a single careless act by an Installer or Operator.

Accident Prevention and Safety are dependent upon the awareness and proper training of the personnel who operate and maintain this equipment. The best safety device is a careful and informed Owner/Operator. Taking precedence over any specific rule, however, is the most important rule of all: **SAFETY FIRST**

⚠ WARNING

Ezy-Lift™ model ProGator™ lift system has a rated lift capacity of 385kg (850 lbs)
Maximum Hydraulic load capacity at full extension – 385kg (850 lbs)
Maximum Winch load capacity at full extension – 385kg (850 lbs)
Maximum Vehicle operating angle – 5 degrees

OVERLOADING YOUR VEHICLE CAN CAUSE POTENTIAL SAFETY HAZARDS!

Read and obey all Safety Symbols, Warnings, Cautionary Notes and Operating Instructions on the Ezy-Lift™ and in this Manual.
Ensure that all placards are in place and legible.
Failure to comply with safety precautions in this Manual and on the Ezy-Lift™ is a safety violation that may result in serious injury, death or property damage.

SAFETY LABELS

Understanding Machine Safety Labels

The unit's Safety Labels, as shown in this section, are placed in important areas on your Ezy-Lift™ unit to draw attention to potential safety hazards.

The Safety Labels on your unit are pictorial, ensuring they are most easily and universally understood.

Where necessary, the Operator's Manual explains any potential safety hazards in special safety messages identified with the words **CAUTION** or **BE CAREFUL**, and incorporate the Safety-Alert symbols shown below.

SAFETY LABELS (cont...)

CAUTION

CAUTION - KEEP HANDS AWAY

This label is positioned on the lifting arms near the "pinch points" where the lift arms, unit frame and linkages converge, as well as on the lift arm hydraulic cylinders where they pass into and out of the lift frame.
To avoid risk of serious injury it is essential to keep hands away from this area while the unit is in use.
It is the responsibility of the Operator to advise others, including bystanders of this risk.
NEVER remove the CAUTION label and replace immediately if missing.

BE CAREFUL

BE CAREFUL

NEVER depend on the winch or wire rope to support a lifted load.
NEVER stand or move under a lifted load.
While operating the winch use the holding strap to maneuver the load.
DO NOT grip the wire rope or the rope hook.
It is recommended that leather gloves are used when rewinding the wire rope after use.

BE CAREFUL

BE CAREFUL	TENGA CUIDADO
OVERHEAD HOIST! STAY CLEAR OF LOAD DO NOT HOLD HOOK OR CABLE WHILE OPERATING - USE HOLDING STRAP	GRUA PUENTE! MANTENGASE ALEJADO DE AREA DE CARGA NO TOCAR EL GANCHO O EL CABLE DURANTE EL FUNCIONAMIENTO- USAR LA CORREA

AVOID INJURY

Only trained personnel should be allowed to service or maintain the unit.
Improper service or maintenance can lead to potential unit failure and injury while in use.

BE CAREFUL

BE CAREFUL

STOW LIFT BEFORE OPERATING VEHICLE

Ensure that the lift frame is lowered all the way to the stowed (flat, horizontal) position and that the load is secured before moving the vehicle.
DO NOT move the vehicle with a load suspended from the lift frame or winch.
Failure to comply with this instruction could cause the load to move or the lift frame to come in contact with overhead obstacles, resulting in damage, injury or both.

OPERATIONAL SAFETY

It is the Owner's/Operator's responsibility to use good judgment in the operation and maintenance of the Ezy-Lift™ Load Lift System.

PLEASE READ THIS ENTIRE OPERATOR'S MANUAL BEFORE BEGINNING WORK

It is the Owner's/Operator's responsibility to instruct and ensure that all Operators fully understand the safe operation and maintenance of the Ezy-Lift™ System. Anyone who operates the equipment must read and fully understand this Manual prior to operating the lift system.
Failure to observe these instructions and safety procedures can result in serious injury and/or property damage.
Train Ezy-Lift™ inspection and maintenance personnel for routine and periodic inspections and maintenance. Such training requirements should also provide information for compliance with any Federal, State and Local Code Requirements, existing Company safety rules and regulations and instructions furnished for the Ezy-Lift™ system.
Because Ezy-Lift™, Inc. has no direct involvement or control over the operation and application of the Ezy-Lift™ System once it is installed on a vehicle, conforming to good safety practices is the responsibility of the Owner, the User, and its operating personnel. Therefore, it is essential that all personnel who will install, inspect, test, maintain and operate the Ezy-Lift™ unit, read and completely understand the contents of this Owner's Manual.
Only those authorized and qualified personnel who have shown that they have read and understood the Owner's Manual and have understood the proper operation and maintenance of the Ezy-Lift™ System should be permitted to operate the Ezy-Lift™ System.

General Safety Information

READ and save all instructions.
NEVER engage in any practice that will divert your attention while operating the Ezy-Lift™ System.
NEVER operate the Ezy-Lift™ System from the Driver or Passenger seats.
ALWAYS disconnect the Ezy-Lift™ Controller and cable from the receptacle when moving the vehicle.
NEVER overload. Overloads can cause damage and create unsafe operating conditions. Ensure that the rated load capacity of any sling, lifter or fitting is not exceeded. Learn to use the Ezy-Lift™ System correctly.
Take time to practice so that you are comfortable with the operating system.

Maximum Hydraulic load capacity at full extension – 385 kg (850 lbs)
Maximum Winch load capacity at full extension – 385 kg (850 lbs)
Maximum vehicle operating angle – 5 degrees

NEVER handle the wire winch cable with bare hands
ALWAYS use leather gloves when handling the winch cable.
NEVER allow children or unauthorized personnel to operate the Ezy-Lift™ System at any time.
NEVER use the unit for lifting, supporting or transporting people.
NEVER stand beneath the load or Ezy-Lift™ System lift frame or use over areas where people are present.
NEVER operate the Ezy-Lift™ System with Driver or Passenger in the vehicle.

OPERATIONAL SAFETY (cont...)

General Safety Information (cont...)

NEVER operate the Ezy-Lift™ System when someone is within an unsafe distance (clear of moving components).

NEVER lift a load with a weight exceeding 385 kg (850lb).

Maximum Hydraulic load capacity at full extension – 385 kg (850 lbs)

Maximum Winch load capacity at full extension – 385 kg (850 lbs)

NEVER lift anything with the Ezy-Lift™ System while the ProGator™ is on an incline or side of hill.

Maximum vehicle operating angle – 5 degrees

NEVER lift anything into the bed that will not fit, cause the vehicle to be unstable when driven or that cannot be safely secured as to not move around when transported.

USE CAUTION - keep people, pets and property clear of the path of the load - keep work area clear and free of obstructions.

DO NOT use for supporting an unattended load.

DO NOT use for towing other vehicles.

ALWAYS install cargo bed locking pins before operating the Ezy-Lift™ System.

Before Operating

Visually inspect the hook, winch cable, winch and accessories for any damage or wear.

Reject nylon slings with abnormal wear, torn stitching, broken or cut fibers or discoloration or deterioration.

Reject wire-cable with kinking, crushing, bird-caging or other distortions, evidence of heat damage, cracks, deformation or worn end attachments, six randomly broken wires in a single cable lay, three broken wires in one strand of cable, cracked hooks and hooks open more than 15% at the throat.

Ensure that the ProGator™ cargo bed and suspension system are in good condition; i.e. shocks, springs etc.

Check to see that all fasteners are secure and that the gusset screws are all tight.

Check to ensure that the Cargo Bed/Box is locked to the main frame with provided locking device.

Check for any evidence of hydraulic fluid leaks.

NEVER MOVE ProGator™ WITH A SUSPENDED LOAD

OPERATIONAL SAFETY (cont...)

Moving a Load

Center the hook over the load to keep the cable from slipping out of the drum grooves and overlapping, and to prevent the load from swinging when it is lifted. Inspect the drum to verify that the cable is in the grooves. Lift the load only high enough to clear the tailgate or rear of the cargo bed.

Keep fingers and arms well clear of the pinch points between the Ezy-Lift™ System arms and frames.

NEVER stand in cargo bed when loading or unloading.

NEVER operate Ezy-Lift™ System while the ProGator™ is on an incline or side of a hill.

AVOID SIDE PULLS - These can cause the winch cable to slip out of the drum groove, damaging the wire or destabilizing the winch.

NEVER leave suspended loads unattended. In an emergency where the Ezy-Lift™ System has become inoperative, or if a load must be left suspended for any length of time, barricade and post signs under the load and on all three sides. Turn off the ProGator™ and lock it so it cannot be moved.

Disclaimer

The Ezy-Lift™ System Model PG850 is manufactured to exacting specifications and standards using high quality materials, components and workmanship.

Guidelines for load lifting and safe operation need to be observed when using/operating the Ezy-Lift™ Model PG850 load lift system. Overall performance of the system depends on the guidelines and safe operation information in the OM being observed in conjunction with conditions on the day.

Examples of "conditions on the day" could be temperature variations, including highs and lows; hot, dry, cold, raining; as well as size and type of load being lifted.

Ezy-Lift™ and/or John Deere are not able to control your working environment or safe operating practices at any given time, and are therefore not liable for variations in performance or injury resulting from misuse or variations in "conditions on the day".

INSTALLATION INSTRUCTIONS

INSTALLING CARGO BED LOCK PIN KIT

IDENTIFY BED LOCK PIN KIT CONTENTS

(See Figure 1)

Item	Description	Qty
1.	Lock Pin & Chain	2
2.	Upstop Bracket	2
3.	Lock Plate	2
4.	Bolt 1/2" - 20 x 1-1/4" & nut	2
5.	Bolt 12mm x 35mm - 1.75	2

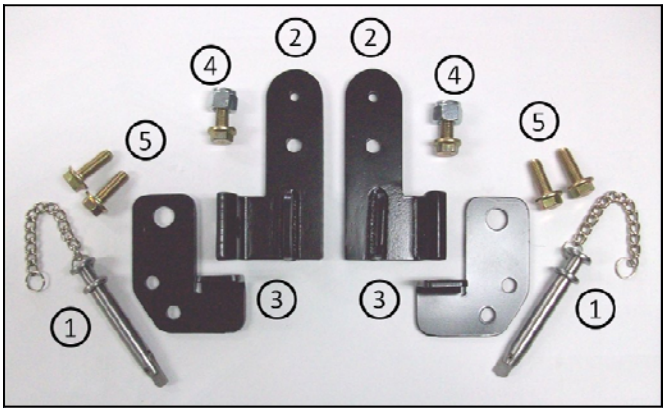


Figure 1

While the cargo box is still in the raised position with safety support in place (see Pg 10 of JD ProGator™ OM), locate and remove rubber upstops under bed rail, below front edge of ProGator™ cargo bed, on both sides.
Using a 13mm (1/2") drill bit and power drill, resize upstop mounting holes to 13mm (1/2").
Attach rubber upstop to new bracket and tighten.
Attach new bed lock bracket with 1/2 " bolt and tighten.
(See Figure 2)

Figure 2

On left hand side of frame rail, remove two upper bolts and discard. Attach new locking plate using longer bolts and nuts (Item 5). Only when left hand side is complete, repeat for right hand side. (See Figures 3a and 3b).

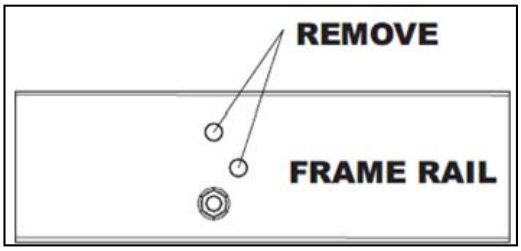


Figure 3a

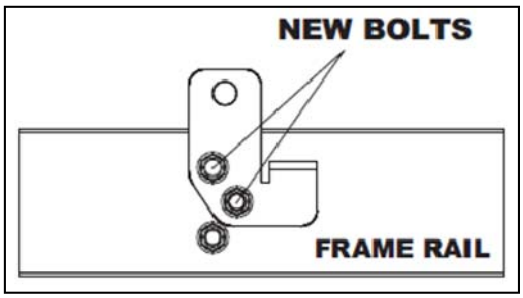


Figure 3b

Install lock pin and attach pin safety chain to lock plate. Ensure pin safety tang is across pin when inserted, to prevent pin falling out. (See Figure 4)

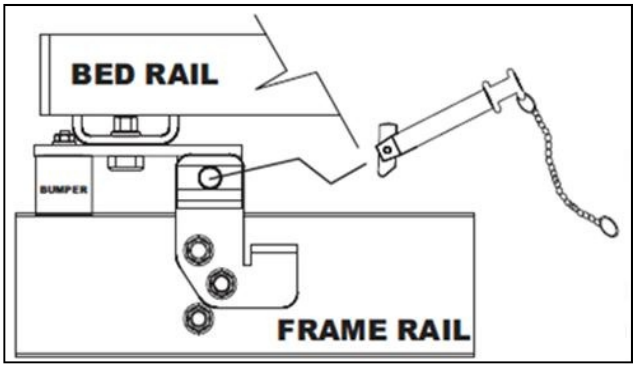


Figure 4

When bed is being used for tipping, place lock pin in storage hole on locking plate.

Ensure pin safety tang is aligned across pin when inserted, to prevent pin falling out. (See Figure 5)

Figure 5

INSTALLATION INSTRUCTIONS (cont...)

BEFORE INSTALLING LIFT SYSTEM -

PARK THE ProGator™ ON FLAT LEVEL GROUND, SET PARK BRAKE AND CHOCK THE WHEELS

After the ProGator™ is securely parked, clear the ProGator™ bed of any objects and ensure that it is clean. If it has a bed liner, it must be removed. (See Figure 1)

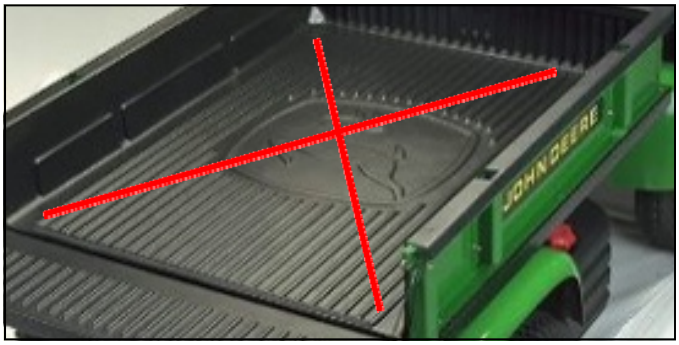


Figure 1

Before taking the next steps - lay out the following tools. (See Figure 2)

- Power Drill
- 8mm (5/16") Drill Bit
- 44mm (1-3/4") Metal Hole Saw
- Tape Measure
- Marker Pen

Figure 2

To prepare the bed for the electric cable feed-hole on the Driver's side (left rear side), use a tape measure to measure a distance of 14cm (5-1/2") from the rear of the bed and 64mm (2-1/2") from the left side of the bed. Using the Marker Pen, mark the intersect point. Using the 8mm (5/16") drill and 44mm (1-3/4") hole saw, drill a hole completely through the bed at the intersect point that you marked with the Marker Pen. (See Figure 3)

Figure 3

INSTALLING LIFT SYSTEM

Your ProGator™ Ezy-Lift™ System is shipped in a box on a pallet. Using a crane, forklift or similar, place the box/ pallet on flat level ground, positioning it behind and in line with the ProGator™ . This will make the installation easier. (See Figure 1)

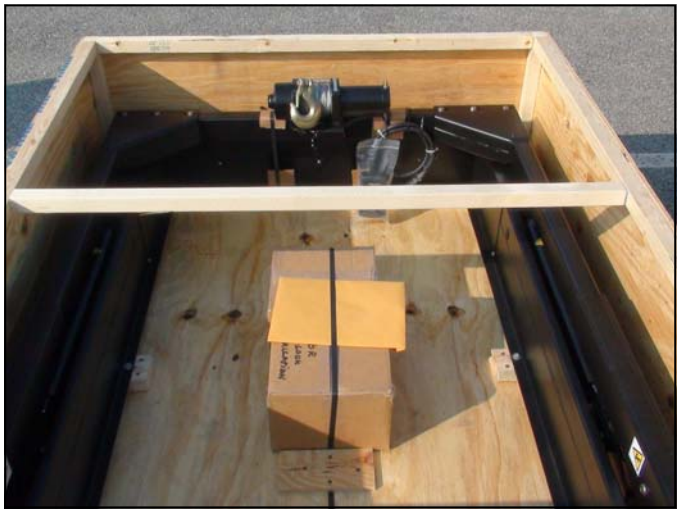


Figure 1

Remove the sides of the box.
Remove the hardware package.
Remove the hardware that is securing the Lift System to the base of the box/pallet. (See Figure 2)

Figure 2

INSTALLATION INSTRUCTIONS (cont...)

With the hardware removed, sling the unit ready for lifting by using 4 reinforced strap slings. Measure 60 cm (23.5") & 79 cm (31") from the outside top edge of the winch frame and attach the first 2 slings. (See Figure 3)

Figure 3

Repeat for opposite side and attach slings to lifting hook. Attaching the sling straps in this way will properly balance the unit for lifting off the pallet and ready it for installation in the bed of the ProGator™ (See Figure 4 & 5)

Figure 4

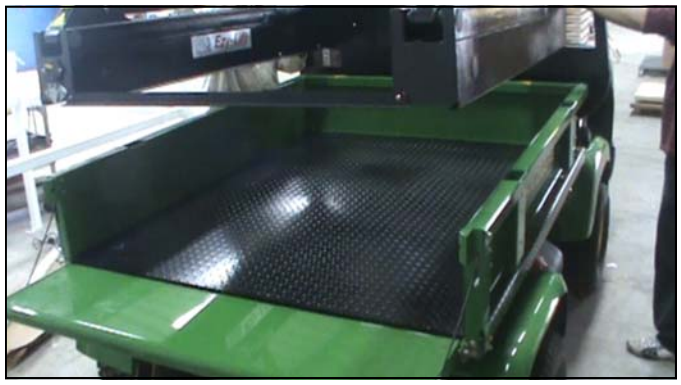


Figure 5

Open the tailgate completely. Lift and lower the Ezy-Lift™ System into the ProGator™ bed. (See Figure 6)

Figure 6

Ensure electrical power cables are clear and are able to be guided through the hole in the bed of the Cargo Box. (See Figure 7)

Figure 7

Finish lowering the Ezy-Lift™ System into the Cargo Box until it is settled on the bed. Ensure power cables are free to move under the bed floor while pulling the cables taut. (See Figure 8)

Figure 8

INSTALLATION INSTRUCTIONS (cont..)

Push the Ezy-Lift™ System all the way forward to cargo bed end by pushing on the shipping bar. The Ezy-Lift™ System should now be in the correct position.
To confirm positioning, measure the distance between the side of the Ezy-Lift™ System and the bed of the ProGator™ ensuring that it is the same distance on both the driver and passenger sides. (See Figure 9)

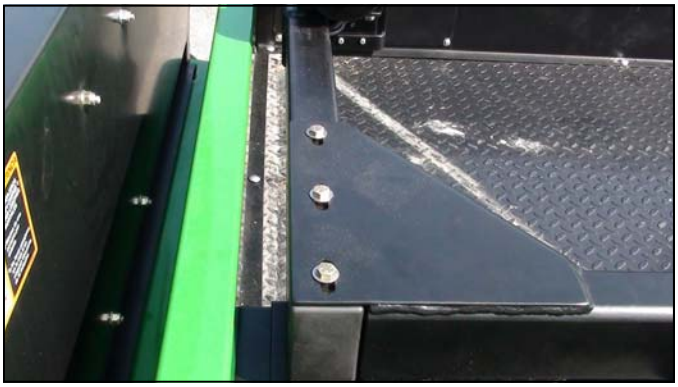


Figure 9

Close tail-gate and check for clearance of 25mm to 38mm (1.5" to 2").
This is important for correct tailgate clearance and location.
(See Figure 10)

Figure 10

Lay out the 7 carriage bolts, washers and nuts needed to secure the Ezy-Lift™ to the bed.
It is best to use 1/4" drive ratchet, an extension and a 1/2" deep socket. (See Figure 11)

Figure 11

Use the drill, 8mm (5/16") drill bit and the pre-drilled holes in the Ezy-Lift™ System as a guide, drill the 7 holes required to fasten the Ezy-Lift™ System to the ProGator™ bed. Place a 5/16" carriage bolt through each of these seven holes. Place the washer, then lock nut on the bottom side and use a ratchet and deep socket to tighten the nut. Repeat for all. (See Figure 12)

Figure 12

With the carriage bolts in place, the bed can be raised to gain better access to the carriage bolt nuts when tightening them from the underside of the bed.
NOTE: If this method is employed, it is necessary to engage the standard cargo bed safety brace to ensure that the cargo box cannot descend while you are working to tighten the carriage bolt nuts. (See Figure 13)

Figure 13

Remove the shipping bar from the unit and store in a safe place for future use. The bar can be reused to assist with the future removal of the Ezy-Lift™ System from the ProGator™, otherwise it can be discarded. (See Figure 14)

Figure 14

INSTALLATION INSTRUCTIONS (cont..)

Using the 2 x Tie Straps provided, mount the Fuse Holder to the rear upper frame tubular cross member as shown. (See Figures 15 & 16)

Figure 15

Figure 16

Install the protective rubber grommet over the plug/cable and insert in the previously prepared electric cable feed-hole on the Driver's side rear of the cargo bed. (See Figure 17)

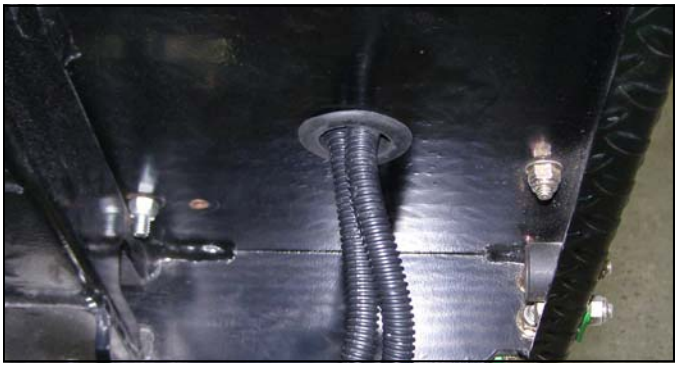


Figure 17

Feed the red (+ positive) and black (- ground/negative) cables through the frame from battery side and connect. (See Figure 18)

Figure 18

Connect the looped long red (+ positive) cable to right side of the fuse. Then connect the short red (+ positive) cable to the battery + positive terminal. Connect the long black (- ground) cable to the battery - ground/negative terminal. Ensure that protective conduit is properly wrapped and positioned around all cables. (See Figure 19)

Figure 19

Read all Operating Procedures carefully.
Become very familiar with all operating instructions and cautions before using your PG850 Ezy-Lift™ System.
Your Ezy-Lift™ System is now ready for operation.
Carefully follow all Operating Instructions beginning on Page 13.

REMOVAL AND STORAGE

The procedure for removing and storing the unit, if desired, is as simple as reversing the Installation Procedure. Unless permanently removing the unit, the bed lock kit does not need to be removed.

Ezy-Lift™ OPERATING CONTROLS

OPERATING HAND CONTROLLER

STEP 1: Plug the controller cable plug into the receptacle. (See Figure 1)

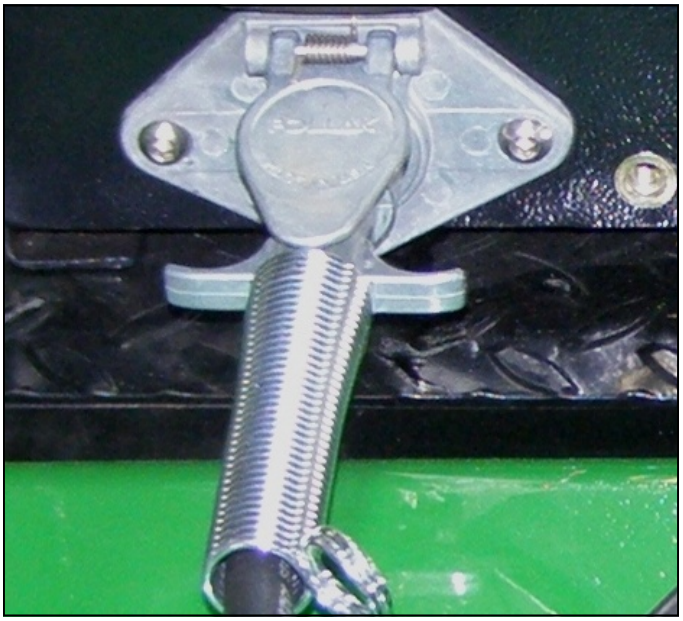


Figure 1

STEP 2: Turn the Main Switch to **ON** to power your Ezy-Lift™ System. (See Figure 2)

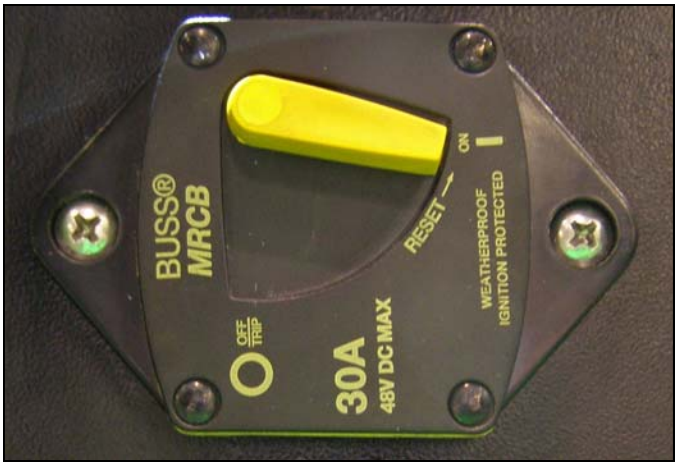


Figure 2

ON

STEP 3: Use the hand controller to lift and load. (See Figure 3)

Figure 3

STEP 4: Using the Hand Controller

The TOP ROCKER SWITCH operates the "Boom." Push the switch toward "OUT" to extend the lift arms. Push the switch toward "IN" to retract the lift arms. (See Figures 4a & 4b)

Figure 4a

Figure 4b

The BOTTOM ROCKER SWITCH operates the Winch wire rope. Push the switch towards "DOWN" to lower the hook/load. Push the switch towards "UP" to raise the hook/load. (See Figures 4c & 4d)

Figure 4c

Figure 4d

OPERATING the Ezy-Lift™ SYSTEM

Your Ezy-Lift™ System operates from the ProGator™ 12-volt battery, which provides power to the winch and the hydraulic power unit. The hydraulic unit is completely self-contained with a DC motor, gear pump, reservoir, load hold check valves and relief valves to prevent overloading.

Flow from the pump to a pair of double acting cylinders provides the lift and rotation necessary to extend and retract the lift arms via the hand-held remote control.

USING THE UNIT UNDER LOW VOLTAGE CONDITIONS CAN REDUCE LIFE OF THE HYDRAULIC PUMP AND WINCH

OPERATING INSTRUCTIONS

STEP 1: Position your ProGator™ to allow the entire loading or unloading operation to be performed without having to move the vehicle. Ideally the ProGator™ will be on solid, level ground.
Ensure that there is adequate overhead clearance for the lift arms to operate and extend fully.
Maximum Hydraulic load capacity at full extension – 385 kg (850 lbs)
Maximum Winch load capacity at full extension – 385 kg (850 lbs)
Maximum vehicle operating angle – 5 degrees

STEP 2: Set the ProGator™ parking brake and leave the engine running to keep the battery charged.

STEP 3: Lift bed locking pin from travel bracket and insert locking pin into locking bracket hole.

STEP 4: Open the ProGator™ tailgate - very important to prevent damage to the ProGator™ or the cargo box.
In some instances it is preferable to remove the tailgate prior to loading cargo.

STEP 5: Plug the remote control assembly into the power/control jack that is located on the Driver's side, near the base of the tailgate opening.

STEP 6: Turn the Main Switch to the **ON** position. THE UNIT IS NOW READY FOR OPERATION.
The Remote Control unit has two rocker buttons; one for the boom and one for the hoist.
Each button is double acting with the following commands:

BOOM IN, **BOOM OUT**, **HOIST DOWN** and **HOIST UP**.

To activate the lift arms, press and hold the **BOOM OUT** control button. This will cause the arms to raise from their parked position and rotate out approximately 150° over the ProGator™ bed.
To reverse the process and return the lift arms to their parked (down) position, press and hold the **BOOM IN** control button until the arms are fully down. Similarly, to activate the crane winch, press and hold the **HOIST DOWN** control button to lower (unwind) the wire/hook and the **HOIST UP** control button to raise (wind) the wire/hook. Both the lift arms and the crane winch can be stopped in any position by simply releasing the control button.
Practice moving the arms in and out, raising and lowering the hook, and become comfortable with operating the system. Attaching a small load or providing tension to the winch hook when raising and lowering will help keep the wire cable tightly wound on the drum.
Make sure that the wire winds evenly across the entire surface of the winch drum.

STEP 7: Now that you are familiar with the controls, press and hold the **BOOM OUT** control button to raise the lift arms and position them over the object to be lifted. Ensure that the winch is positioned directly above the center of the load to be lifted in order to prevent the load from swinging as it is hoisted from the ground.
NOTE: A swinging load could cause injury and/or property damage.
For large objects it may be necessary to remove the ProGator™ tailgate in order to correctly position the winch above the load. Failure to do so may cause damage to your vehicle and/or cargo box.

OPERATING INSTRUCTIONS (cont...)

STEP 8: With the lift arm and winch now centered over the load, press and hold the **HOIST DOWN** button to lower the wire cable's hoist hook into position for attaching to the load. Keeping tension on the wire cable while it unwinds will prevent slippage of the wire cable once the load is attached.
NEVER WRAP THE LIFTING CABLE AROUND THE LOAD
Use a nylon sling or metal chain to attach the hook to the load.
Wrapping the wire cable around the load and hooking it back onto itself can damage the cable and create a potential safety hazard.
NEVER ATTACH a sling or chain link to the tip of the lifting hook or attempt to lift a load from the tip of the hook. Make sure that the nylon sling or chain is properly seated in the saddle of the hoist hook.

STEP 9: With the load now attached, press and hold the **HOIST UP** button. Slowly take up slack in the wire cable until it becomes taut. Keep tension on the wire cable during this process and make sure that the cable winds evenly across the drum.
STOP - Recheck all lifting connections before proceeding to lift the load.

STEP 10: When sure that all the lifting connections are secure, depress the **HOIST UP** button to slowly lift the load from the ground just high enough to clear the ProGator™ tailgate.
DO NOT PULL FROM ANGLES as this can damage the lift arms. Continuous pulls at angles will also cause the wire cable to pile up at one end of the winch drum.
This can jam the wire cable and damage the winch and/or cable.
ALWAYS MAINTAIN at least five (5) wraps of wire cable on the winch drum, otherwise the wire cable drum fasteners will not withstand the load.

STEP 11: Press and hold the **BOOM IN** button to move the load onto the ProGator™ bed.
Use the **HOIST DOWN** button to keep the load low during the process.
Once the load is at the desired position, release the **BOOM IN** button to stop the lift arms.

STEP 12: Slowly lower the load onto the ProGator™ bed by pressing and holding the **HOIST DOWN** button.
Once the load is resting safely in the ProGator™ bed, disconnect the wire cable's hoist hook from the load.

STEP 13: Depress the **HOIST UP** button to rewind the wire cable onto the winch spool.
DO NOT OVERWIND as this could damage the winch and/or wire cable.
Apply tension to the winch cable to ensure that it winds evenly and smoothly onto the winch spool.

STEP 14: Return the lift arms to their parked position using the **BOOM IN** button.

STEP 15: Turn the Main Switch to the **OFF** position.

STEP 16: ALWAYS REMOVE the remote control from the power jack and store it in a clean, dry location to avoid damage while transporting the load.

To prevent unauthorized use of the unit, NEVER leave the ProGator™ unattended with the remote control inserted into the power jack.

PLACE THE REMOTE CONTROL IN A SAFE, SECURE LOCATION WHEN NOT IN USE

Ezy-Lift™ INSPECTION & MAINTENANCE

Your Ezy-Lift™ System is designed to give years of faultless operation. However, as with any mechanical product, periodic inspection and maintenance is required to keep the unit in its best operating condition.

Here are a few tips that Owners/Operators should periodically perform to keep the unit in top condition.

PLEASE REVIEW THIS INFORMATION

If you have any questions please contact Ezy-Lift™ during normal business hours, Central Standard Time, Monday through Friday - excluding holidays.

WINCH WIRE CABLE

Wire cable consists of a core, strands, and wires. The wire cable fits and wraps onto grooves on the circumference of the winch drum that transmits motion to the wire cable. Wire cable sizes are stated as the diameter of a circle that would enclose the wire cable strands; i.e. 8mm, 9.5mm (5/16", 3/8"), etc. Each wire cable size is available in various cable constructions and materials.

- **Routinely check** that the winch wire cable has not become loosely wound. Under load, a loosely wound spool allows the wire cable to work its way down into the layers of wire cable on the drum. This can cause the wire cable to become wedged within the body of the windings on the spool and damage the wire cable. Keep tension on the wire cable during unwinding and rewinding. A good practice is to inspect and rewind the wire cable under tension after each use.
- **Routinely check** to see that the wire cable is evenly wound on the drum and not bunched to one side of the winch drum. During winding of the wire cable check to see that the cable is winding evenly on the drum. If necessary rewind the wire cable under tension making sure that the cable is evenly placed across the width of the winch drum.
- **Routinely check** the wire cable for evidence of kinking or damage.
  Replace any cable found to have evidence of kinking or damage.

Loosely wound spool or cable wound at one end of the winch drum, allowing it to become wedged, can damage the wire cable and could cause it to break under load resulting in the potential for both property damage and injury.

Fraying and kinking reduces the load capacity of the wire cable.
Replace the wire cables immediately if either condition is found.

When replacing the wire cable, be sure to insert the attaching end of the wire cable into the correct end of the drum hole (See Figure 1) Tighten the set screws securely.

Always use a wire cable with minimum break strength of at least 2,540kg (5,600 lbs).

NOTE: Always remember to use heavy leather gloves when handling wire cable.
Do not allow the wire cable to slide through bare hands.

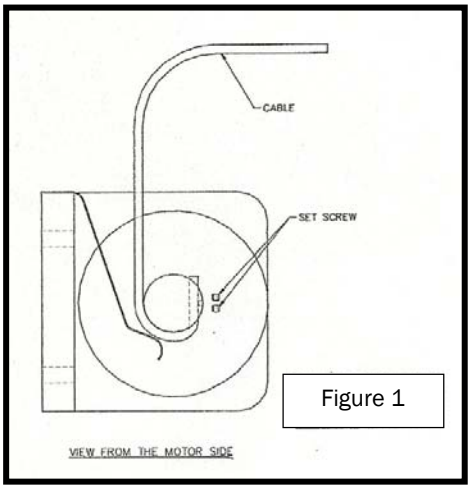


Figure 1

Ezy-Lift™ INSPECTION & MAINTENANCE (cont...)

HYDRAULIC UNIT

The Ezy-Lift™ Hydraulic Unit is completely self-contained and requires no maintenance. However, periodic inspection of hydraulic cylinders, hoses and fittings for any sign of leakage is recommended.

Periodically check the oil level in the fluid reservoir and add oil as needed to maintain full capacity.

The hydraulic pump and fluid reservoir are located directly behind the cover hatch on the Driver's side of the unit.

With the lift cylinders fully retracted (lift arms in the parked position), the fluid reservoir should be approximately 2/3 full 25mm to 38mm (1" to 1-1/2") beneath the filler inlet (See Figure 2)

DO NOT OVERFILL. Adding too much oil could cause the reservoir to overflow when your vehicle is in motion.

Use Automatic Transmission Fluid (ATF) with a viscosity range of 150-300 SSU at 100°F.

Figure 2

MAINTENANCE INTERVALS

Your Ezy-Lift™ Lifting System should be serviced every 2 years or 400 hours of normal operation.

That service to include:

- Inspect and lubricate bearings.
- Check all hydraulic fittings for leaks or signs of wear - tighten or replace as necessary.
- Inspect hydraulic power unit and reservoir for leaks or damage - repair or replace as necessary. Replace hydraulic fluid and inspect old fluid for signs of problems.
- Check cylinder for leaks and inspect cylinder rod for evidence of wear or damage - repair or replace as necessary.
- Inspect for corrosion and treat as necessary.
- Inspect electrical system for corrosion or damage - repair or replace as necessary.
- Inspect all bolts, including frame attachment to cargo bed, frame to arm assemblies, gusset and winch. Tighten and/or replace as necessary.
- Inspect winch housing and motor for any signs of wear or problems - repair or replace as necessary.

TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Lift Arms will not raise or lower	Unit Off/On switch is "OFF"	Turn the switch "ON"
	Remote Control assembly not properly plugged in	Remove and re-insert the Remote Control assembly
	Poor electrical connection	Check and repair or replace the Remote Control assembly
	Vehicle battery charge is low	Recharge or replace battery
	Fuse at vehicle battery blown	Replace fuse
	Faulty contactor	Contact Factory authorized Agent for repair or replacement
Winch will not operate or it runs in one direction	Remote Control assembly not properly plugged in	Remove and re-insert the Remote Control assembly
	Poor electrical connection	Check and repair or replace the Remote Control assembly
	Vehicle battery charge is low	Recharge or replace battery
	Fuse at vehicle battery blown	Replace fuse

WARRANTY

Ezy-Lift™ warrants the Ezy-Lift™ product to the original Buyer against defective materials and parts for six (6) months from the date of purchase.

Ezy-Lift's sole and exclusive liability and the Buyer's sole and exclusive remedy, under this Warranty, is the repair or replacement of any materials or parts determined to be defective by Ezy-Lift™ .

In no event shall Ezy-Lift™ be liable for incidental or consequential damages, including, but not limited to inspection or transportation cost, cost of cover, loss of profits, loss of use, damages or injury of any kind based upon claim for breach of Warranty.

This Warranty does not cover breaking or fraying of the winch wire cable, cost of labor for field repairs, transportation charges in connection with replacement or repairs of defective parts, or any damage as a result of misuse, neglect, overloading, accident, improper installation, maintenance or repair, unauthorized alteration, or use of the product beyond the range of normal usage.

To obtain warranty service, contact Ezy-Lift™ at **1-866-943-2282** during business hours,
Central Standard Time: 8:00 am - 5:00 pm Monday through Friday - excluding holidays.

Be prepared to provide: (1) Name, Address, and Phone Number; (2) Proof of Purchase; (3) Unit Serial Number; and (4) Explanation of the Problem.

This Warranty is the only Warranty made by Ezy-Lift™ and it cannot be amended or amplified by any party.

QUALITY SERVICE - CONTACTS

SERVICE LITERATURE

If you would like a copy of the Parts Catalog or Technical Manual for this machine, please contact:

- USA & Canada: **1-866-943-2282**
- Or visit “www.Ezylift.com”

PARTS

We recommend Ezy-Lift™ authorized replacement Parts available by contacting:

- USA & Canada: **1-866-943-2282**
- Or visit “www.Ezylift.com” for your internet connection to Parts ordering and Information.

Ezy-Lift™ QUALITY CONTINUES WITH QUALITY SERVICE

Ezy-Lift™ provides a process to handle your questions or problems, should they arise, to ensure that product quality continues with your Ezy-Lift™ Parts and Service Support.

FOLLOW THE STEPS BELOW TO GET ANSWERS TO ANY QUESTIONS YOU MAY HAVE REGARDING YOUR EzyLift™ SYSTEM

- Refer to the appropriate Product Manual
- Refer to the Product Serial Number
- Refer to Part Item Number for Parts enquiries
- Contact Ezy-Lift™ with unanswered questions

  USA & Canada: **1-866-943-2282**

Ezy-Lift™ SPECIFICATIONS

MODEL (Ezy-Lift™ PG System for John Deere ProGator™)

Manufacturer ..... Ezy-Lift™
Model Number ..... Ezy-Lift™ PG850

CAPACITIES

Lift Capacity ..... 385 kg (850 lbs)
Maximum Hydraulic load capacity at full extension ..... 385 kg (850 lbs)
Winch Capacity ..... 385 kg (850 lbs)
Maximum Winch load capacity at full extension ..... 385 kg (850 lbs)
Winch Hook ..... 2.7 MT (3 Tons) Eye Hoist with Latch
Maximum vehicle operating angle ..... 5 degrees

LIFT SYSTEM

Cylinders - Hydraulic ..... 2 x 6.35mm (2-1/2”) bore 41mm (16”) stroke
Power-Pack - Hydraulic ..... 12 Volt Elect
Frame ..... 11 Gauge Steel with Black Finish

WINCH

Manufacturer ..... Mile Marker 3500

ELECTRICAL

Voltage - System ..... 12 Volts DC
Voltage - Winch ..... 12 Volts DC
Amperage - System ..... 150 amps
Amperage - Winch ..... Limited to 40 amps
Fuse - Lift & Winch System ..... 150 amps at Vehicle Battery

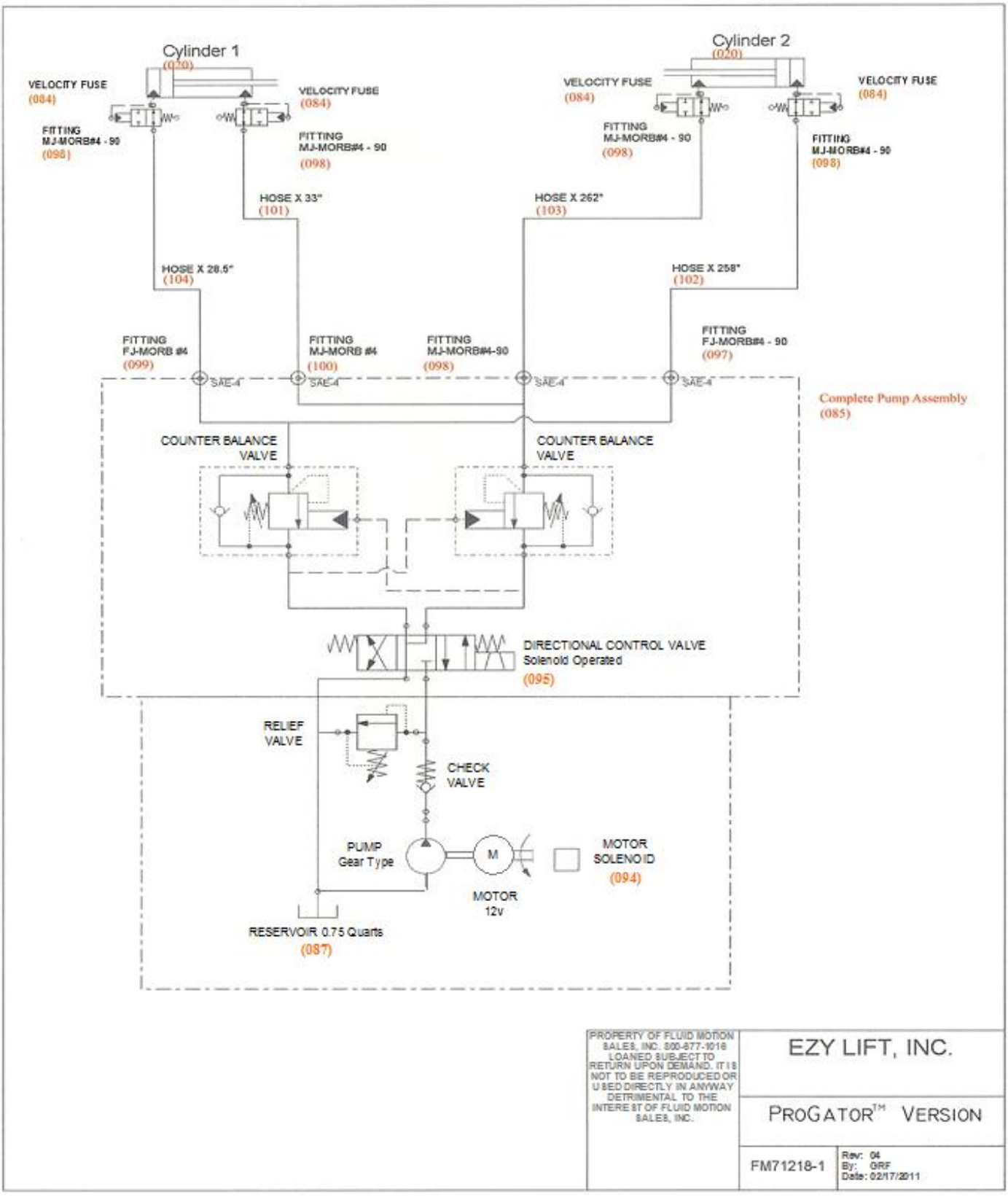
DIMENSIONS

Overall Length .....1600 mm (63”)
Overall Width ..... 1264 mm (49-3/4”)
Overall Height ..... 432 mm (17”)
Overall Reach ..... 1321 mm (52”)
Through Frame Clearance (vertical position) ..... 1549 mm (61”)
Width Inside Side Frames ..... 965 mm (38”)
Winch Cable Length ..... 6 m (20 ft)
Winch Cable Diameter ..... 5.4 mm (5/16”)

FLUID CAPACITIES

Oil - Hydraulic Type ..... Automatic Transmission Fluid (ATF)
Oil - Hydraulic Capacity ..... 3.785 Liters (1 U.S. Gallon)

UNIT HYDRAULIC SCHEMATIC



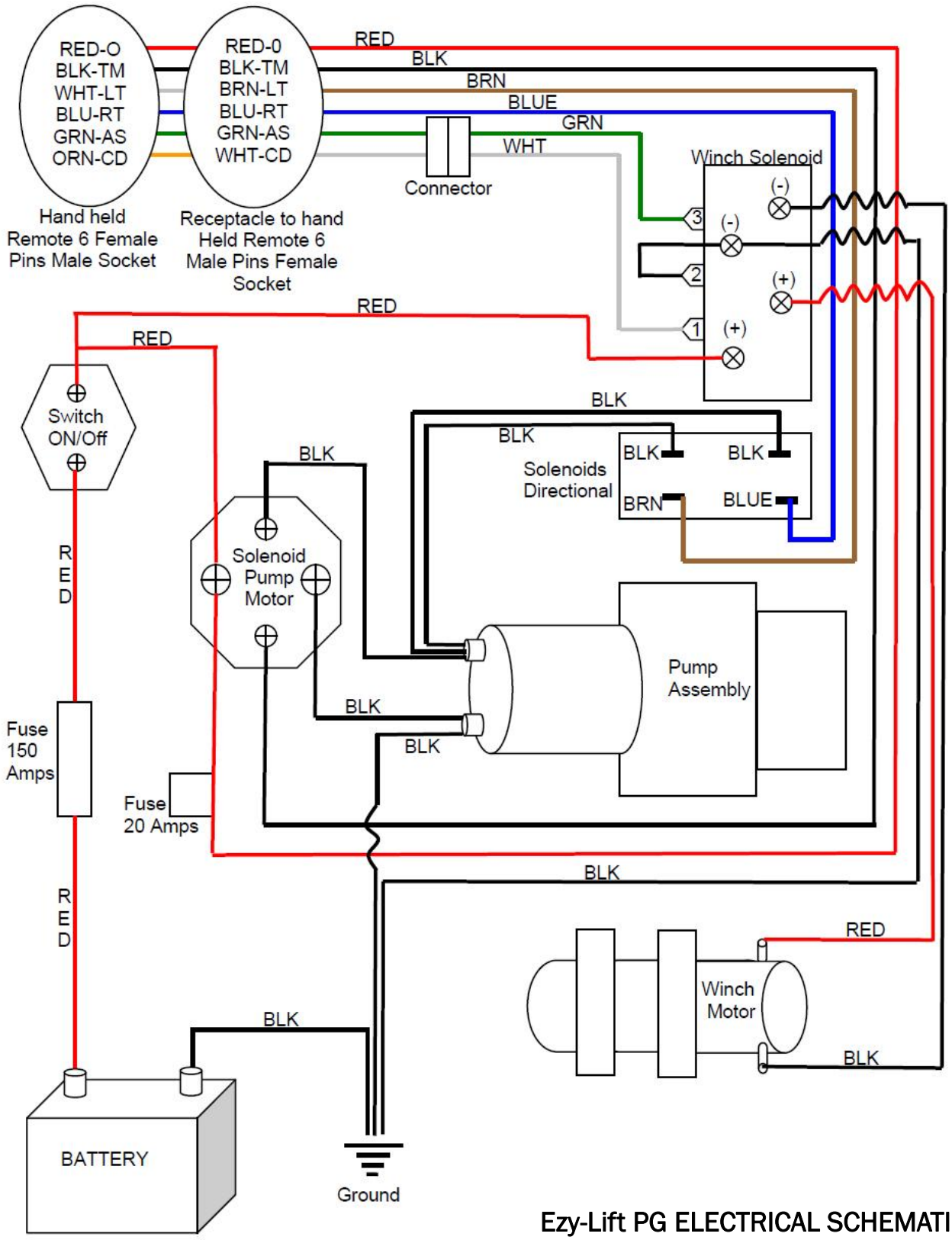
EZY LIFT, INC.

PROGATOR™ VERSION

FM71218-1

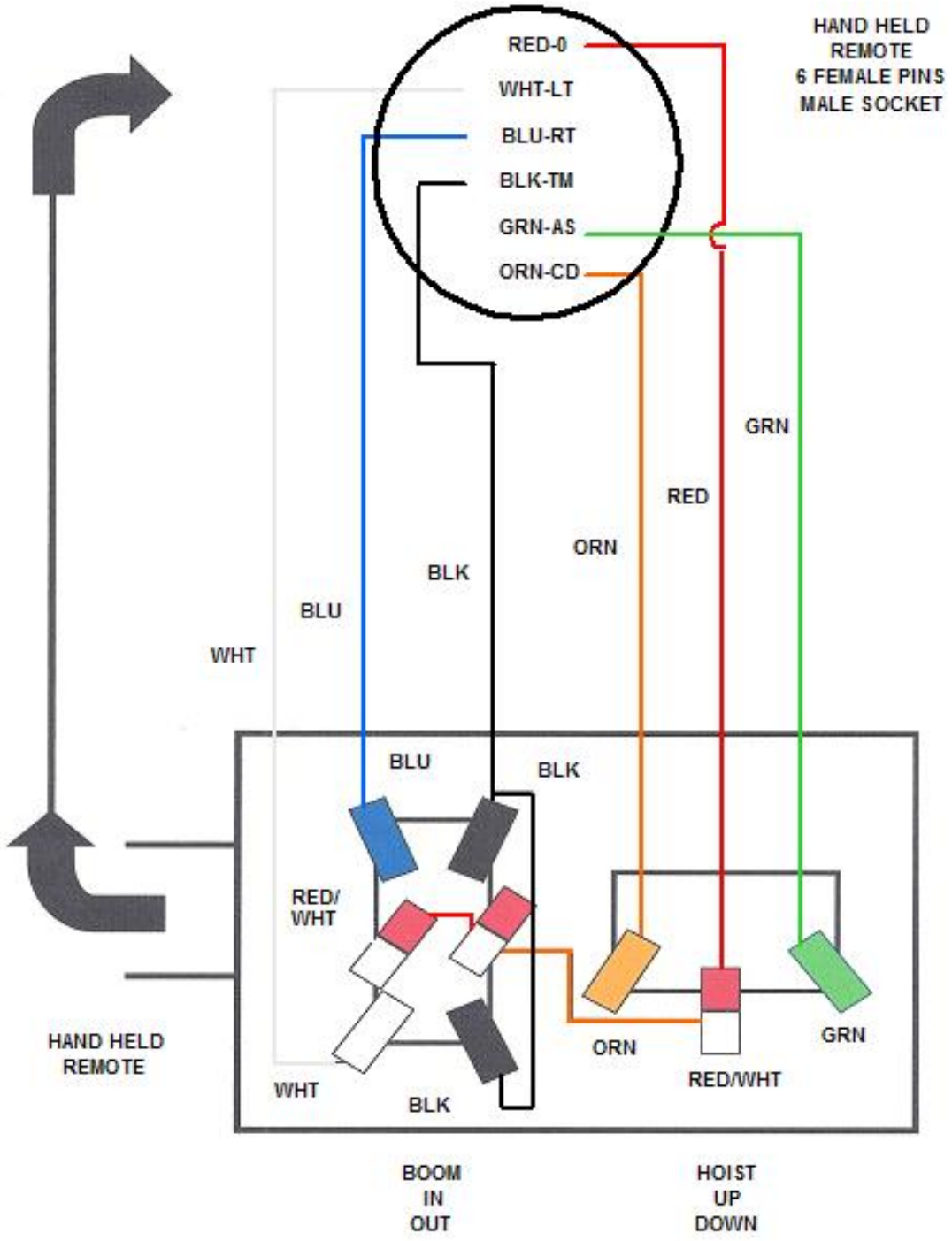
Rev: 04
By: GRF
Date: 02/17/2011

UNIT ELECTRICAL SCHEMATIC



Ezy-Lift PG ELECTRICAL SCHEMATIC

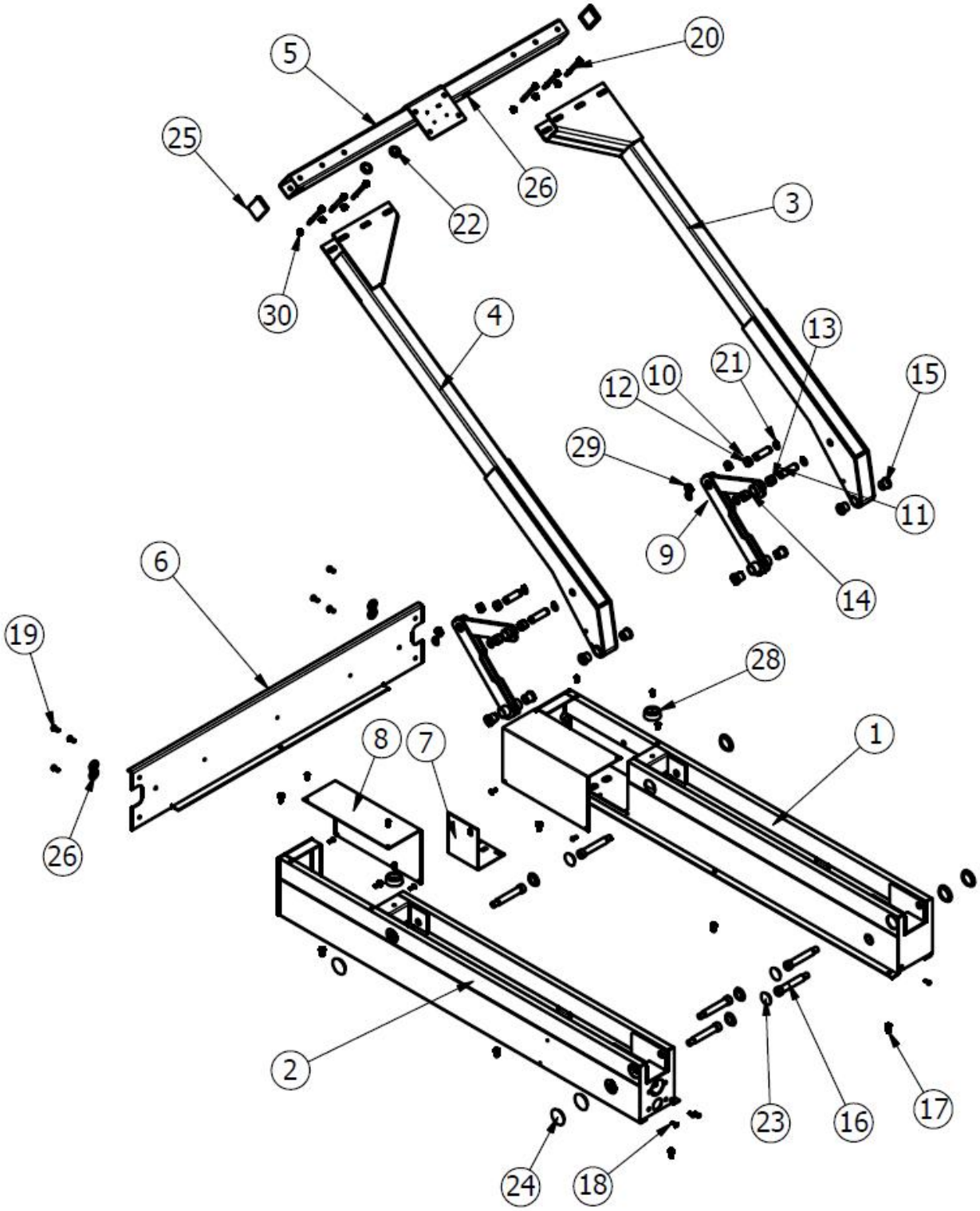
CONTROLLER ELECTRICAL SCHEMATIC



Ezy-Lift™ PARTS

LIFT SYSTEM FRAME, ARM & COMPONENTS

Ezy-Lift™ PG850



This Parts Listing is continued

Ezy-Lift™ PARTS (cont...)

LIFT FRAME, ARM & COMPONENTS (continued) Ezy-Lift™ PG850

KEY	PART NO.	PART NAME	QTY	SERIAL NO.	REMARKS
1	EZSA7	WELDMENT - CYLINDER BOX - RIGHT	1		
2	EZSA8	WELDMENT - CYLINDER BOX - LEFT	1		
3	EZSA9	WELDMENT - BOOM LIFT ARM - RIGHT	1		
4	EZSA10	WELDMENT - BOOM LIFT ARM - LEFT	1		
5	EZSA11	WELDMENT - WINCH RAIL	1		
6	EZSA12	PANEL - REAR WALL	1		
7	EZSA13	FLANGE - PUMP MOUNTING	1		
8	EZSA14	COVER - ACCESS (HYD PUMP & FITTINGS)	1		
9	EZSA15	LINKAGE - DOUBLE ARM ASSEMBLY	2		
10	EZSA16	PIN - LINKAGE 3/4" (A)	2		
11	EZSA17	PIN - LINKAGE 3/4" (B)	2		
12	EZ424	BUSHING - LINKAGE ARM 3/4" x 1-3/8"	2		
13	EZ423	BUSHING - LINKAGE ARM 3/4" x 1-3/4"	4		
14	EZSA18	LINKAGE - SINGLE ARM ASSEMBLY	2		
15	EZ400	BUSHING - FLANGED 3/4" x 1-3/4"	8		
16	EZ419	BOLT - SHOULDER 3/4" x 3-3/4"	1		
17	EZ474	BOLT - CARRIAGE - BED MOUNT 5/16"	7		
18	EZ431	BOLT - BUTTON HEAD 1/4" - 20	14		
19	EZ407	BOLT - BUTTON HEAD 5/16" - 18	6		
20	EZ497	BOLT - 5/16" - 18 x 3-3/4"	6		
21	EZ499	SNAP RING - EXTERNAL 3/4"	8		
22	EZ461	PLUG - PLASTIC - HOLE 1"	2		
23	EZ401	PLUG - PLASTIC - HOLE 1-1/4"	6		
24	EZ455	PLUG - PLASTIC - HOLE 1-3/4"	6		
25	EZ454	PLUG - PLASTIC - SQUARE TUBING	2		
26	EZ406	GROMMET - RUBBER 1"	4		
27	EZ402	BUMPER - RUBBER 3/4"	2		
28	EZSA1	BUSHING - LINKAGE ARM 3/4" x 1-1/4"	4		
29	EZ498	NUT - NYLOC 5/6" - 18	13		

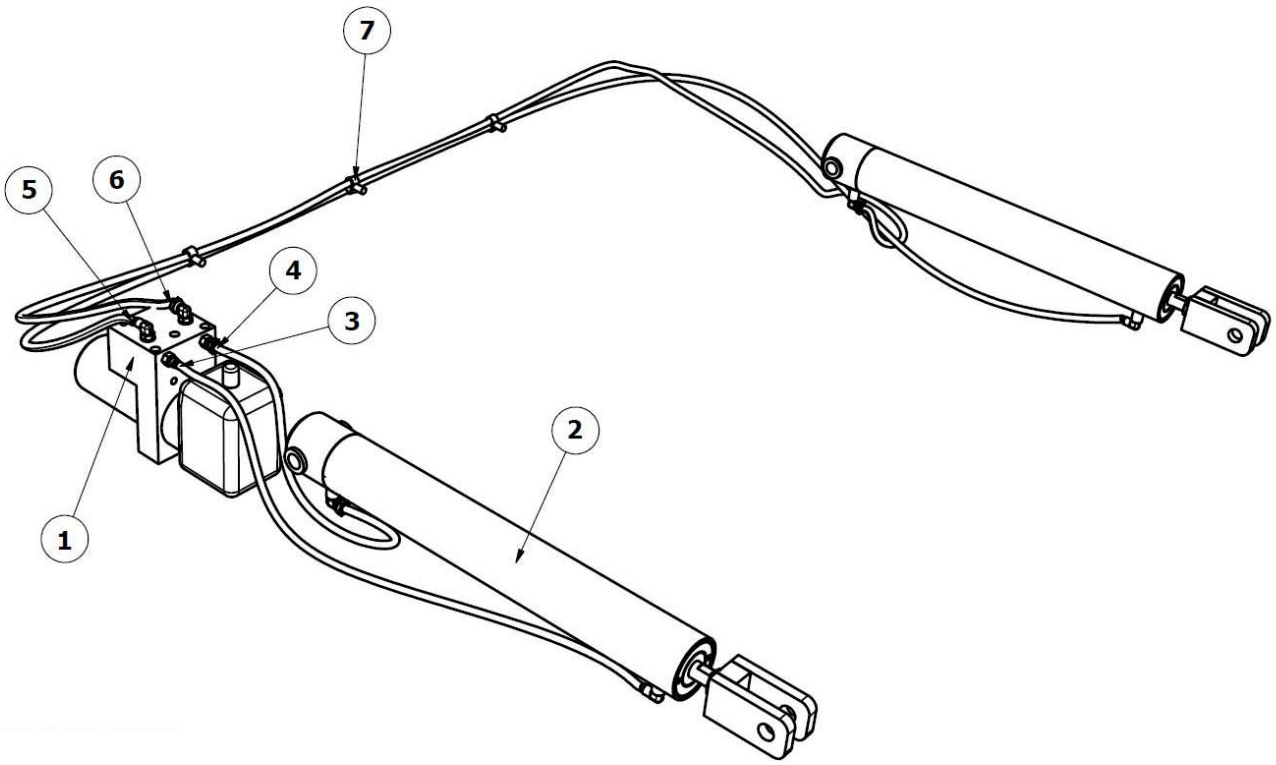
MODEL (Ezy-Lift ™ PG System for John Deere ProGator™)

Manufacturer ..... Ezy-Lift™

Model Number ..... Ezy-Lift™ PG850

Ezy-Lift™ PARTS (cont...)

HYDRAULIC SYSTEM LIFT CYLINDERS, COMPONENTS & LINES Ezy-Lift™ PG850



KEY	PART NO.	PART NAME	QTY	SERIAL NO.	REMARKS
1	EZ438	HYD PUMP ASSEMBLY	1		
2	EZSR2	HYD CYLINDER ASSEMBLY	2		
3	EZ448	HYD HOSE COMPLETE	1		
4	EZ447	HYD HOSE COMPLETE	1		
5	EZ446	HYD HOSE COMPLETE	1		
6	EZ445	HYD HOSE COMPLETE	1		
7	EZ463	HYD HOSE GUIDE CLAMP	3		

MODEL (Ezy-Lift ™ PG System for John Deere ProGator™)

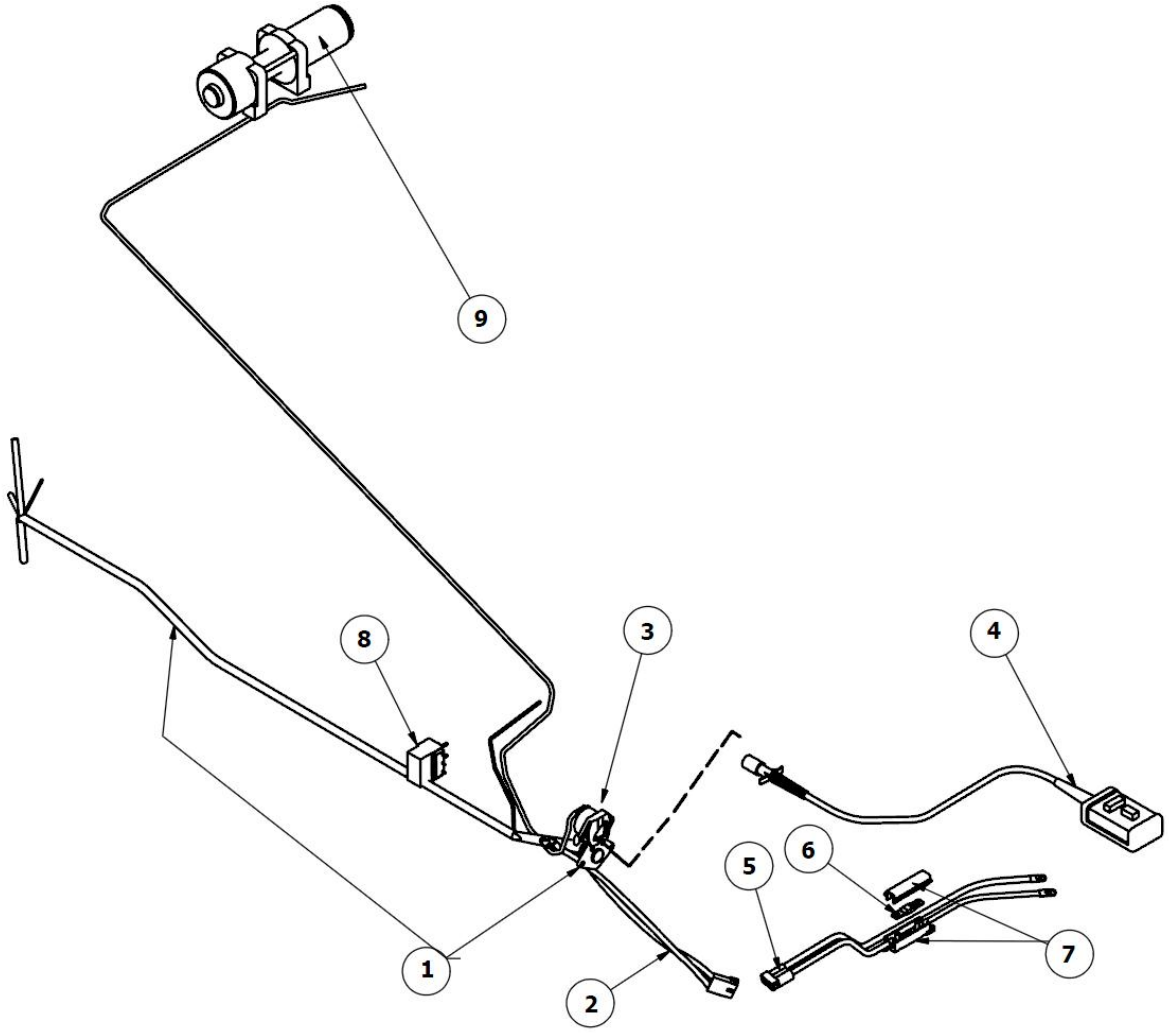
Manufacturer ..... Ezy-Lift™

Model Number ..... Ezy-Lift™ PG850

Ezy-Lift™ PARTS (cont...)

ELECTRICAL SYSTEM COMPONENTS & WIRING

Ezy-Lift™ PG850



KEY	PART NO.	PART NAME	QTY	SERIAL NO.	REMARKS
1	EZSA3	HARNESS - MAIN W/CONTROLLER RECEPTACLE	1		
2	EZSA4	HARNESS - PIG TAIL - THROUGH BED	1		
3	EZ465	SWITCH - MAIN 40 AMP	1		
4	EZSA5	CONTROLLER - W/PLUG & HARNESS COMPLETE	1		
5	EZSA6	HARNESS - PIG TAIL - TO BATTERY	1		
6	EZ493	FUSE - MAIN - 150AMP INLINE	1		
7	EZ494	BOX - MAIN FUSE - INLINE	1		
8	EZ495	SWITCH - WINCH DIRECTION CONTROL	1		
9	EZ456	WINCH - MILE MARKER 3500	1		

MODEL (Ezy-Lift ™ PG System for John Deere ProGator™)

Manufacturer ..... Ezy-Lift™

Model Number ..... Ezy-Lift™ PG850

Notes

Notes


Ezy-Lift™
Ezy-Lift