

Owner's Manual LHLP3500G Hide-A-Way® Tuckunder Style



LEYMAN MANUFACTURING CORPORATION

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INTRODUCTION

This manual contains the operating procedures on the equipment your company is using that was manufactured by Leyman Manufacturing Corporation.

Past experience has indicated that it is most unwise to operate these units without proper instructions which should be instituted by the purchaser.

While these products have certain safety features engineered into their design, they are all operated by human beings. Therein lies the problem of safety and one should always have caution in mind when operating this or any other machine that has parts that weight several hundred pounds.

Again, let us remind you that there are moving parts on this product that weight several hundred pounds. These parts, when not under proper control can cause physical damage to the operator. Because of the weights that are involved: carelessness and neglect of training can make these units dangerous.

Do not overload this product. Maintain it properly. Stand clear of moving parts. Operate as instructed.

This lift gate has a long life expectancy and will take some abuse. Use good judgment when operating this equipment.

PLEASE FILL IN FOR YOUR RECORDS

| Customer: | |
|----------------------------|---------------------------|
| Model: | LHLP3500G-8060CS |
| Capacity: | 3500 lbs. |
| Type: | Hide-A-Way |
| Power: | 12 volts |
| Platform: | Two piece |
| Serial #: | |
| Options: | |
| | |
| | |
| | |
| | |
| Hydraulic Pressure: | 2,500 psi MAX. at by-pass |

WHEN PLACING PARTS ORDER, YOU WILL NEED THE SERIAL NUMBER AND MODEL OF THE LIFT GATE.



WORDS OF CAUTION

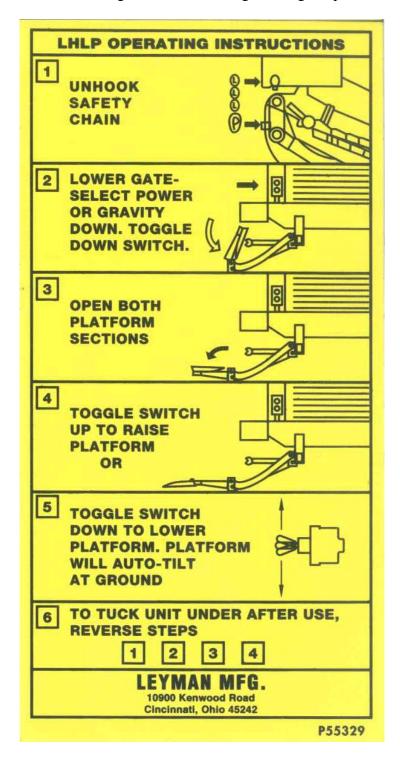
- 1. Before any maintenance is performed on this unit, read and understand this manual completely.
- 2. Do not stand in front or behind the platform when lowering from the stored position or when operating the gate in folded position.
- **3.** Make sure the ground is clear under the platform when lowering, check the area around the gate for any persons before operating the gate.
- **4.** This lift gate should operate smoothly and the only noise that you should be heard is the power unit. Any audible sounds other than normal power unit operation sound should be thoroughly inspected and the cause of noise should be pin-pointed and corrected.
- 5. Never exceed the rated load capacity of this gate.
- **6.** Always load as close to the center of the platform and close to the truck or trailer sill.
- **7.** Do not allow persons to operate the unit unless they have been properly trained to do so.
- **8.** Inspect the hydraulic cylinders seals for leakage every six (6) months.
- **9.** Inspect hydraulic lines for cracks or deterioration every six (6) months.
- **10.** Check the level of the hydraulic oil in the power unit tank once a month.
- **11.** Clean the hydraulic power unit strainer and in-line filter every three (3) months.
- **12.** Always disconnect the battery from the power source before servicing the unit.
- **13.** Use only factory authorized parts for replacement.

WARNING: SINCE THIS GATE HAS POLYMER GREASELESS BEARINGS IN THE SOME OF THE MAIN PIVOT POINTS, (TENSION ARM, COMPRESSION ARM AND CYLINDER PIVOTS) ATTACH GROUND WIRE CLOSE TO WHERE YOU ARE WELDING OR YOU WILL DAMAGE CYLINDER AND OTHER COMPONENTS.



LHLP 3500G OPERATING INSTRUCTIONS

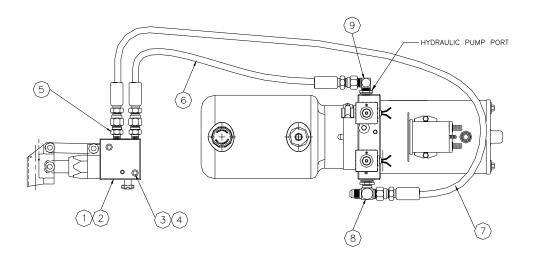
- Before operating the lift gate, read and understand this decal, urgent warning decal and the Owner manual.
- Do not stand behind the lift gate while unfolding or using the platform.





OPERATING THE HAND PUMP (OPTIONAL)

- 1. Optional Hand Pump is located inside power unit box.
- 2. Insert handle into pump and stroke to raise.
- 3. Twist valve at pump base counter-clockwise to lower.
- 4. Close valve (turn clockwise) at pump base when finished.





RECOMMENDED OILS AND LUBRICATION

HIDE-A-WAY® TUCKUNDER STYLE GATE MODEL LHLP3500G

| HYDRAULIC OILS | MANUFACTURER | TYPE | TEMP. RANGE |
|---------------------------|--------------|--------------|--------------------|
| Level 1 Normal Conditions | Mobile | DTE 11 | -15° F to + 150° F |
| | Shell | TELLUS-T15 | -15° F to + 150° F |
| | Chevron | RYKON ISO-15 | -15° F to + 150° F |
| Level 2 Cold Conditions | Mobile | AERO-HFA | -50° F to + 80° F |
| | Shell | AERO FLUID#4 | -50° F to + 80° F |
| | Chevron | AVIATION-A | -50° F to + 80° F |

HYDRAULIC TANK CAPACITY

3.60 quarts

| | LUBRICATION |
|--------|--|
| Grease | Militec #1 (or Lithium base NLGI grade 1 grease) |
| | |

BATTERIES

Two (2) 12 V D.C. Group 31 Heavy-Duty lead acid DUAL PURPOSE, or AGM

ELECTRICAL COMPONENT CONNECTIONS

Use Fluid Film Rust and Corrosion Protection by Eureka, except on Start Solenoid.
On Start Solenoid, use Color Guard by Loctite, or Liquid Electrical Tape.

AMPERAGE DRAW OF MOTOR

When raising platform (empty) approximately 120 AMP @ 12 volts.

At bypass approximately 250 AMP @ 12 volts

LIFTING PRESURE SETTING

With platform at floor level and pump in bypass 2500 psi

MINIMUM VEHICLE FLOOR HEIGHT LADEN

46" vehicle floor height

MAXIMUM VEHICLE FLOOR HEIGHT UNLADEN

59" vehicle floor height

APPROXIMATE TIME EMPTY AT 80° F WITH 2 BATTERIES SPECIFIED

Time up: 17 - 19 seconds

Time down: 17-19 seconds (power down)



PREVENTIVE MAINTENANCE SCHEDULE

MAINTENANCE BY MONTHS

| COST | UMER: | : | | | | |
|---|----------|------|--|-------------------------------|--------------------------|--|
| | TION: | | | <u>.</u> | | |
| VEHIC | VEHICLE: | | MODEL: SERIAL#: | | | |
| ✓= OK | | | A=ADJUSTED N= NOT APLICABLE *= REPAIR | | | |
| 3 | 6 | 12 | MC | TOR – PUMP COMPO | NENTS | |
| mos. | mos. | mos. | | | | |
| | | | Check battery(ies) for w | ater level and corrosion. | | |
| | | | Check battery(ies) for p | oper charge level. CHARC | E LEVEL: | |
| | | | Check the voltage of ba | tery(ies). | | |
| | | | Check all wiring connec | tions for corrosion and tight | ness. | |
| | | | Check solenoids for loo | se fittings and operation. | | |
| | | | Check reservoir for corr | ect amount of fluid (platform | n on ground and tilted) | |
| | | | Inspect fuse links and/or | circuit breakers and replace | if necessary. | |
| | | | Check the charge line or | power line and connections | | |
| | | | Remove and clean all pr | mp solenoids cartridges. | | |
| | | | Replace hydraulic fluid | in reservoir. | | |
| | | | Check and adjust the rel | ief valve setting. | | |
| | | | Check brushes and arma | ture in motor. | | |
| | | | Check amperage draw of motor. | | | |
| 3 | 6 | 12 | LUBRICATION | | | |
| mos. | mos. | mos. | | | | |
| | | | Lubricate pivot points using specified grease. | | | |
| | | | Steam clean the lifting g | ear. | | |
| 3 | 6 | 12 | STRUCTURE INSPECTION | | | |
| mos. | mos. | mos. | | | | |
| | | | Raise and lower the lift | gate. Check both power and | gravity down operations. | |
| | | | Check lifting gear for in | pact damage. Repair if nece | essary. | |
| | | | Check up and down cyl | nder for leaks. Repack or rep | place if necessary | |
| | | | Inspect for broken and/o | | | |
| | | | Inspect for worn bushin | gs and/or bearings. Replace i | if necessary. | |
| | | | Steam clean gate. Repai | any structural welds as nee | ded. | |
| | | | Repaint where needed a | nd replace any worn or missi | ing safety decals. | |
| SERVICED BY: DATE: INSPECTION NOT REQUIRED INSPECT | | | | | | |
| | 11 101 L | | TIOT REQUIRED | 11101 LC1 | | |

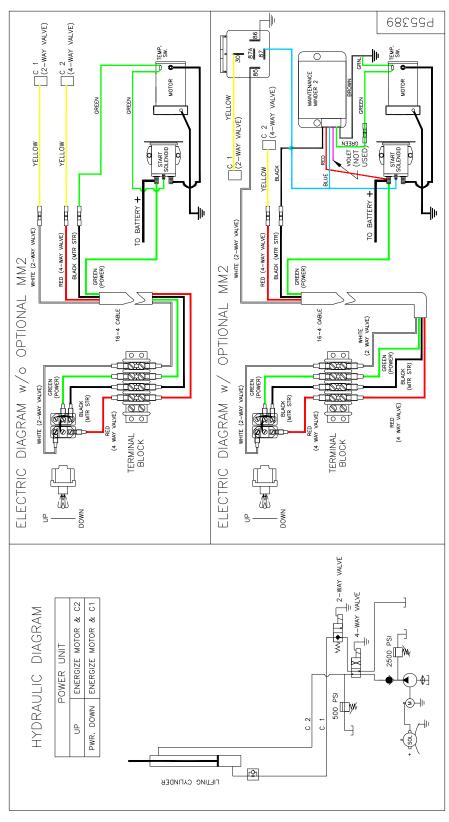


TROUBLE SHOOTING CHART LHLP3500G

| PROBLEM | | POSIBLE CAUSE | | SOLUTION |
|--------------------------|----|-------------------------------------|----------|---|
| The platform will not go | 1. | Battery is low | 1. | Recharge battery |
| up or reach floor level. | 2. | Slave line is disconnected or | 2. | Connect the slave line |
| 1 | | connections are loose | | property. |
| | | (battery and motor). | 3. | Fill the power unit tank |
| | 3. | Insufficient oil in power | 4. | Clean and check switch |
| | | unit tank | | connections. |
| | 4. | Poor switch connections | | |
| Platform will not lower | 1. | Battery is low | 1 | Dagharga hattary |
| Platform will not lower | 2. | Poor switch connections | 1. 2. | Recharge battery Clean and check switch |
| | 3. | Check lowering valve (2- | ۷. | connections. |
| | ٥. | way valve). | 3. | Clean/replace as necessary. |
| | | way varve). | ٥. | Cican/replace as necessary. |
| Platform creeps down | 1. | Dirt under the ball of the | 1. | Clean |
| | | check valve, the ball is | 2. | Check all hoses and |
| | | pitted, worn or the spring is | 2 | fittings. |
| | 2 | weak. | 3. | Replace cylinder seals. |
| | | Hydraulic leak. | | |
| | 3. | y 1 | | |
| Platform goes down | 1. | failing. Excessive wear of | 1. | Insure free movement of all |
| slowly | 1. | mechanical components. | 1. | mechanical parts. |
| Slowly | 2. | _ | 2. | Check strainers on valve |
| | ۷. | system. | ۷. | stems. |
| | 3. | Incorrect hydraulic oil in | 3. | Use Mobile Aero-HFA in |
| | 3. | system for cold weather. | 3. | extreme cold weather. |
| Platform comes down | 1. | Flow control valve problem. | 1. | Replace flow control. |
| crooked | 2. | Air in system. | 2. | Bleed cylinder. |
| Gate will not lift the | 1. | Hydraulic pump is worn. | 1. | Change the pump. |
| rated load. | 2. | Battery is too low. | 2. | Recharged the battery to |
| | 3. | Hoses switched at power | | full charge. |
| | | unit. | 3. | Switch hoses. |
| Pump will not operate | 1. | Battery too low. | 1. | Recharge the battery and |
| | 2. | Electrical hookup to motor | | check to be sure that slave |
| | | not making contact. | | line has a good connection. |
| | 3. | Control switches are not | 2. | Clean connection and re- |
| | | making good contact. | | tighten. |
| | 4. | Optional Maintenance | 3. | Clean and check the |
| | | Minder2 [®] Controller has | | connections. |
| | | shut down the system due to | 4. | Use the "Last Lift Menu" |
| | | the low voltage. Must | | data on screen to read |
| | | maintain 8 volts minimum | | maximum and minimum |
| | | under load. | | voltages, recharge battery. |

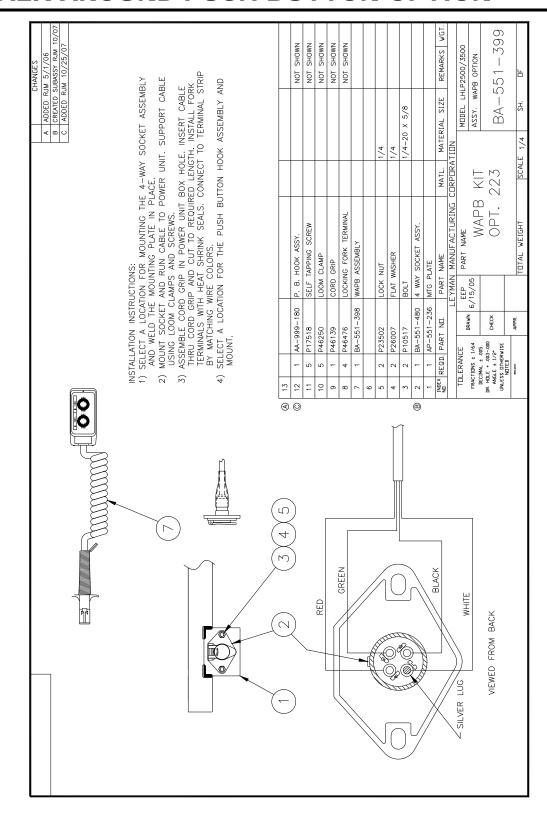


ELECTRICAL & HYDRAULIC DIAGRAM



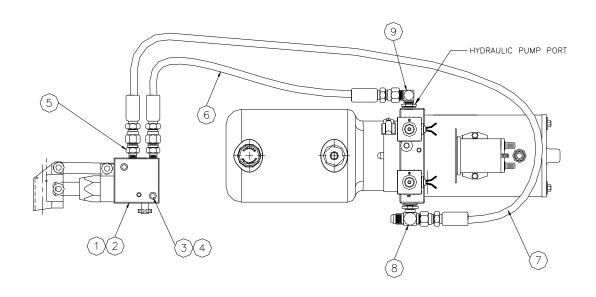


WALK AROUND PUSH BUTTON OPTION





EMERGENCY HAND PUMP OPTION 224



| ITEM# | QTY | PART # | DESCRIPTION |
|-------|-----|----------------|-----------------------|
| 1 | 1 | P33902 | Hand pump with handle |
| 2 | 1 | AA-658-249 | Spacer block |
| 3 | 2 | P16504 | 1/4-20 SHCS |
| 4 | 2 | P23502 | Lock nut |
| 5 | 2 | P34006 | Adapter |
| 6 | 1 | AT-501-354-018 | Hydraulic hose |
| 7 | 1 | AT-501-354-035 | Hydraulic hose |
| 8 | 1 | P34076 | Tee |
| 9 | 1 | P34020 | 90 Deg. Elbow |
| 10 | 2 | P17518 | Self Tapping Screw |

HAND PUMP OPERATIONS

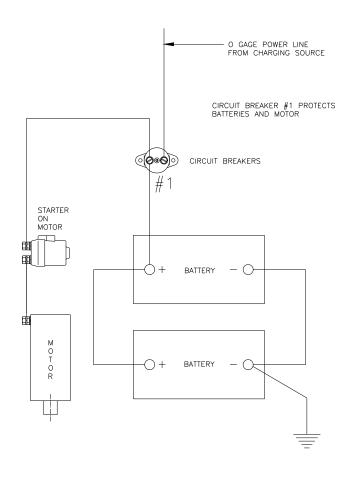
- 1) INSERT HANDLE INTO HAND PUMP TO RAISE.
- 2) TWIST VALVE AT PUMP BASE TO LOWER
- 3) CLOSE VALVE AT PUMP BASE WHEN FINISHED



WE RECOMMEND BATTERIES WITH THE FOLLOWING SPECIFICATION:

- 12 Volt Heavy Duty Dual Purpose or AGM
- B.C.I. Group Size 31
- Terminal Type TS
- Cold Cranking Amp 580

ONE CIRCUIT BREAKER WIRING DIAGRAM

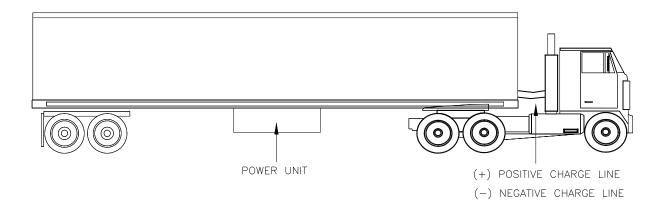


FAILURE TO USE CORRECT BATTERIES WILL VOID WARRANTY



CHARGE LINE RECOMMENDATIONS

FOR TRACTOR & TRAILER



Utilization of a single positive cable does not provide sufficient ground. Therefore, our recommendations for grounding trailers with a LHLP gate are as follow:

Two (2) cables: one (1) positive and one (1) negative, both running to the tractor batteries.

The Maintenance Minder 2[®] controller (optional) requires that a minimum of 8 volts be maintained under load in order for the LHLP 3500G to operate.

NOTE:

The use of a battery charger as the sole power source to operate the LHLP is <u>unauthorized</u> and will prevent the LHLP from working properly. The lift gate must always be operated in conjunction with a least one (1) 12 volt heavy duty lift gate battery. The LHLP Power Unit must be properly grounded. A 5/16" Ground Screw is provide on the pump block to connect a ground wire to the vehicle frame.



MAINTENANCE MINDER 2® OVERVIEW (OPTIONAL)

Power unit is equipped with the Maintenance Minder 2[®] Controller. It will:

- Automatically keep track of maintenance intervals and warn the user when maintenance is due, based on the number of lifts.
- Record low voltage occurrences.
- Record of high temperature faults.
- Record of maximum run time faults, when a single operation exceeded the maximum continuous run time limit.
- Give helpful trouble-shooting information on MENU 4, "Last Lift Info".

FAULTS CODES

A decal in the power unit enclosure lists the following signal codes for these faults:

| 1 BEEP | Service Fault (reached the number of lifts when maintenance is due) |
|---------|--|
| 2 BEEPS | Low Voltage Fault (check battery condition and power line connections) |
| 3 BEEPS | Max. Time Fault (exceeded the maximum continuous run time allowed) |
| 4 BEEPS | High Temperature Fault (unit will not run until motor cools) |

All faults signals will be repeated FOUR times, except the service fault signal. Controller will prevent power unit form operating during the time period when a fault signal is sounding (about 5 to 10 sec.) except for the service fault signal. The controller is also equipped with an anti-doorbelling feature, which prevents rapid ON/OFF operation of the power unit.

RESETTING after MAINTENANCE IS PERFORMED

To RESET the Maintenance Minder 2[®] after maintenance has been performed:

- 1. Go to MENU 2, hit "ENTER", and toggle down to the "Reset All Info" screen.
- 2. Press the hidden RESET button under Maintenance Minder 2[®] logo at top of faceplate.
- 3. Follow the instructions on the screen regarding a second button, which must be pressed to complete the reset operation.





MAINTENANCE MINDER 2® CONTROLLER MENUS

(Press MENU)
MENU 1 – LIFT GATE INFO
(Press ENTER, then ARROW DOWN for each item)

Model Number, Serial Number, Manufacture Date, Vehicle ID, Hardware Version, Firmware Version, Software Version.



(Press MENU and ARROW DOWN once)

MENU 2 – PERIOD INFO (data for current maintenance period)

(Press ENTER, then ARROW DOWN for each item)

Number of Lifts (gives the number during this maintenance interval and the set of number when maintenance is due)

Motor ON (total motor run time in minutes for this maintenance period)

Service Fault (number of times gate was operate while PAST the maintenance limit)

Max. Time Faults (times motor exceeded its maximum allowable continuous run time)

High Temperature Faults (Times thermal switch in motor tripped, if switch provided)

Low Voltage Faults (times low voltage occurred)
Reset all Info (Reset data after performing
maintenance, once maintenance limit is reached –
instructions will flash on screen after limit reached)





MAINTENANCE MINDER 2® CONTROLLER MENUS

(Press MENU and ARROW DOWN twice)

MENU 3 – LIFE TIME INFO (data for the total life time of the gate)

(Press ENTER, then ARROW DOWN for each item)

Same items will appear as under PERIOD INFO, except this is LIFE TIME data. *Reset History* (reviews history for each maintenance interval)

Press ENTER, then ARROW DOWN to show history. Most recent period is highest#. Screen shows Period #, # of Lifts, and Total Run Time in minutes.



(Press MENU and ARROW DOWN three times)

MENU 4 – LAST LIFT INFO (Trouble Shooting Screen – it records data that occurred during the last lift made)

(Press ENTER, then ARROW DOWN for each item)

Supply Voltage (first voltage is the minimum voltage that occurred during the last lift – if below 6 volts gate will stop / second voltage is the supply voltage just before gate operation, must be at least 10 volts).

Motor ON (motor run time in seconds during last lift, gate will stop at 180 seconds).

Window Time (time in milliseconds during the last lift that the voltage dropped in between 6 and 8 volts – must not be any longer than 3 seconds or gate will stop).



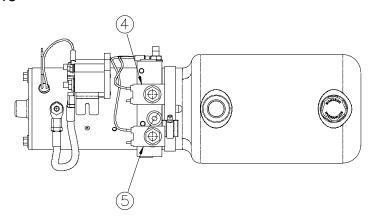
NOTE:

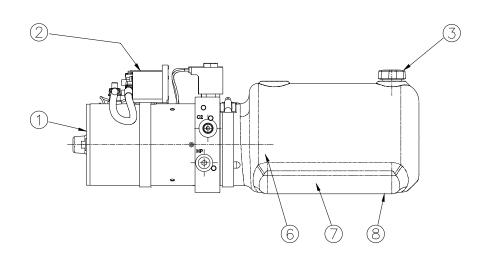
Controller has an anti-doorbelling feature. Motor will not operate if UP switch is toggled rapidly. This prevents welding of the start solenoid contacts.



POWER UNIT PARTS

BEFORE 10-2015



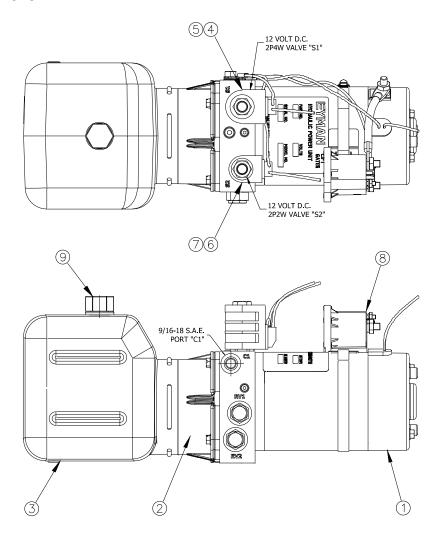


| ITEM# | PART# | DESCRIPTION |
|-------|----------|----------------------------------|
| | P34073 | Power Unit (complete) |
| 1 | P33992A | Motor |
| 2 | P34016 | Start Solenoid |
| 3 | LH150015 | Breather Cap |
| 4 | P34121 | C1, 2 Way, 2 Pos. Solenoid Valve |
| 5 | P34026 | C2, 4 Way, 2 Pos. Solenoid Valve |
| 6 | P34056 | Pump Kit |
| 7 | P34089 | Suction Screen |
| 8 | P34100 | Poly Tank |



POWER UNIT PARTS

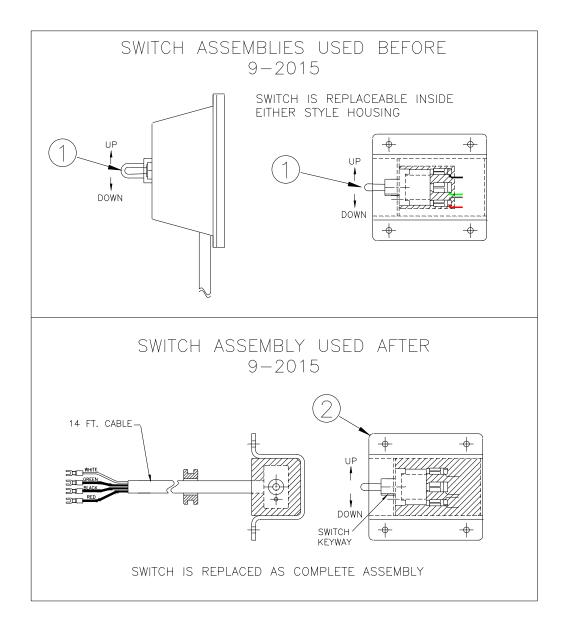
AFTER 10-2015



| ITEM | PART NO. | DESCRIPTION |
|------|----------|-----------------------|
| | P34219 | Power Unit (complete) |
| 1 | P34221 | Motor |
| 2 | P34222 | Pump Kit |
| 3 | P34229 | Reservoir Tank |
| 4 | P34230 | C2 Valve Stem 2P4W |
| 5 | P34231 | C2 Coil (Size 10) |
| 6 | P34232 | C1 Valve Stem 22P2W |
| 7 | P34233 | C1 Coil (Size 8) |
| 8 | P34016 | Starter Solenoid |
| 9 | P34234 | Breather Fill Cap |



SWITCH WIRING COMPONENTS



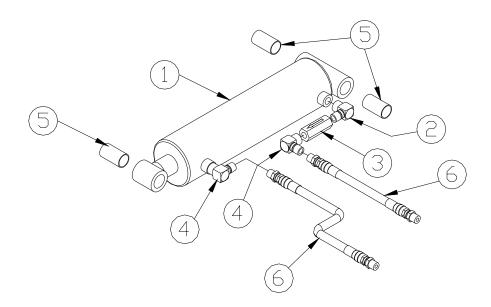
| ITEM | PART NO. | DESCRIPTION |
|------|------------|--|
| 1 | AA-551-546 | Replacement switch (switch only) before 9-2015 |
| 2 | BA-551-620 | Switch assembly (complete) after 9-2015 |

NOTE: BA-551-620 can be used to replace older switch supplied before 9-2015.



HYDRAULIC ASSEMBLY

Before 9-2014 Power Unit Box Remote Mounted

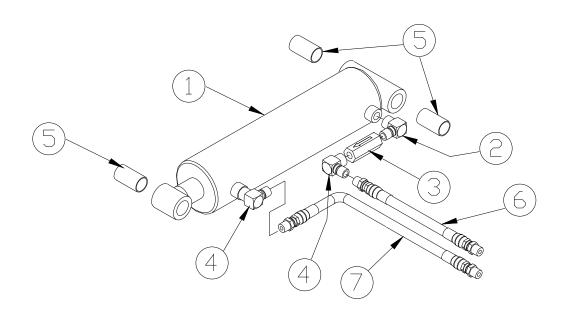


| ITEM# | QTY. | PART# | DESCRIPTION |
|-------|------|----------------|---------------------------------|
| 1 | 1 | P34071 | Cylinder |
| 2 | 1 | P33217 | 3/8" 90 Elbow |
| 3 | 1 | P33984 | 2.8 GPM Flow Control Valve |
| 4 | 2 | P34005 | Adapter Elbow 3/8 NPT - 9/16-18 |
| 5 | 3 | P43578 | Greaseless Bushings |
| 6 | 2 | AT-501-354-110 | Hydraulic Hose. |



HYDRAULIC ASSEMBLY

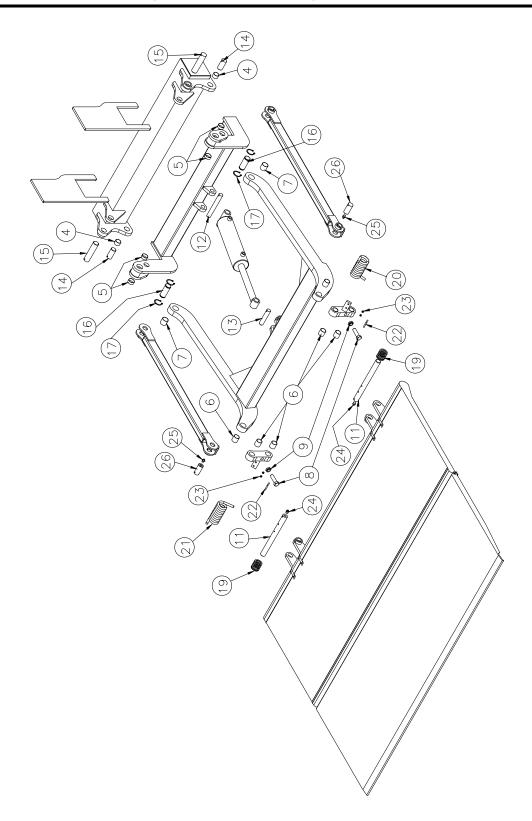
After 9-2014 Power Unit Box Mounted On Gate



| ITEM# | QTY. | PART # | DESCRIPTION |
|-------|------|----------------|---------------------------------|
| 1 | 1 | P34071 | Cylinder |
| 2 | 1 | P33217 | 3/8" 90 Elbow |
| 3 | 1 | P33984 | 2.8 GPM Flow Control Valve |
| 4 | 2 | P34005 | Adapter Elbow 3/8 NPT - 9/16-18 |
| 5 | 3 | P43578 | Greaseless Bushings |
| 6 | 1 | AT-501-354-027 | Hydraulic Hose. |
| 7 | 1 | AT-501-354-036 | Hydraulic Hose. |



PIVOT PINS, BUSHINGS, SPRINGS





PIVOT PINS, BUSHINGS, SPRINGS

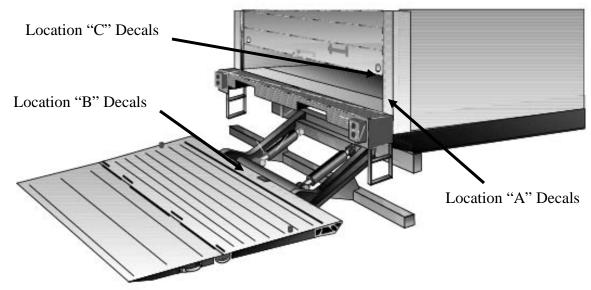
| ITEM# | QTY | PART# | DESCRIPTION | REMARKS |
|-------|-----|------------|---|-----------|
| 1 | 1 | BA-711-114 | Pivot Bracket for Radius Arm | NOT SHOWN |
| 2 | 1 | P14517 | Soc Head Set screw ½-13 x 2 for Rad. Arm | NOT SHOWN |
| 3 | 1 | P23533 | Hex Jam Nut ½-13 for Radius Arm | NOT SHOWN |
| 4 | 2 | P43596 | BRG 1-1/4 ID x 1-3/8 OD x 7/8 LG. | |
| 5 | 4 | P43593 | BRG 1-3/8 ID x 1-1/2 OD x 1-3/8 LG | |
| 6 | 6 | P43608 | Pre-lubricated Bearing 1-1/4 ID x 1-3/8 OD | 1-3/8 LG |
| 7 | 2 | P43594 | BRG 1-3/8 ID x 1-1/2 OD x 1-3/8 LG | |
| 8 | 2 | P10070 | HHCS ³ / ₄ -10 x 1-3/4 LG. Plated | |
| 9 | 2 | P22500 | Nut Hex Jam ¾-10 | |
| 10 | 1 | BA-712-157 | Radius Arm Assembly, less Roller | NOT SHOWN |
| 11 | 2 | BP-712-125 | Platform Bracket Pin | |
| 12 | 1 | AP-800-227 | Base End Pin | |
| 13 | 1 | AP-800-233 | Rod End Pin | |
| 14 | 2 | AP-712-044 | Compression Arm Pin | |
| 15 | 2 | AP-712-047 | Tilt Tube Pin | |
| 16 | 2 | AP-712-046 | Tension Arm Pin | |
| 17 | 4 | P24024 | Retaining Ring | |
| 18 | 1 | AP-711-101 | Radius Arm Pin | NOT SHOWN |
| 19 | 24 | P26028 | Nylon Washer Nom 2 OD x 1-1/2 ID x 1/8 | |
| 20 | 1 | P25206 | RH Spring | |
| 21 | 1 | P25207 | LH Spring | |
| 22 | 2 | P17566 | U-Bolt ¼ x 1 x 1-3/4 LG | |
| 23 | 4 | P23502 | Lock Nut 1/4-20 | |
| 24 | 2 | P32017 | Grease Fitting 1/4 NPT | |
| 25 | 2 | P32016 | Grease Fitting ¹ / ₄ - 28 | |
| 26 | 2 | AP-712-104 | Compression Arm Pin – Cam End | |
| 27 | 1 | P37553 | Radius Arm Roller | NOT SHOWN |
| 28 | 1 | P11029 | Hex Bolt for Roller | NOT SHOWN |
| 29 | 1 | P23511 | Lock Nut for Roller | NOT SHOWN |



INSTALLING SAFETY DECALS

IMPORTANT!

All decals should be positioned so they can be seen with the LHLP-3500G both in operation and in rest position, and must NEVER be covered by components or elements of the vehicle (hooks, locks, cloths, etc.).



Location "A"

| DESCRIPTION | DIMENSIONS | PART# |
|-------------------------------|-------------|--------|
| Urgent Warning | 4 ½" x 4 ½" | P55199 |
| After using Lift Gate | 4" x 2" | P55201 |
| READ & UNDERSTAND | 4" x 3" | P55203 |
| LHLP Operation Instructions | 6" x 3" | P55329 |
| CAUTION Maximum Load 3500 lbs | 4" x 7" | P55381 |

Location "B" (on face of tension arm tube with gate UP)

| DESCRIPTION | DIMENSIONS | PART # |
|--------------|------------|--------|
| Secure Latch | 4" x 2" | P55202 |

Location "C", on the UP/DOWN switch box (only if gray switch box used)

| DESCRIPTION | DIMENSIONS | PART# |
|----------------------|-----------------|--------|
| UP – DOWN POWER DOWN | 3 1/8" X 1 3/8" | P55221 |

If any decals are missing or become damaged, free replacements are always available from LEYMAN.



| NOTES | |
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