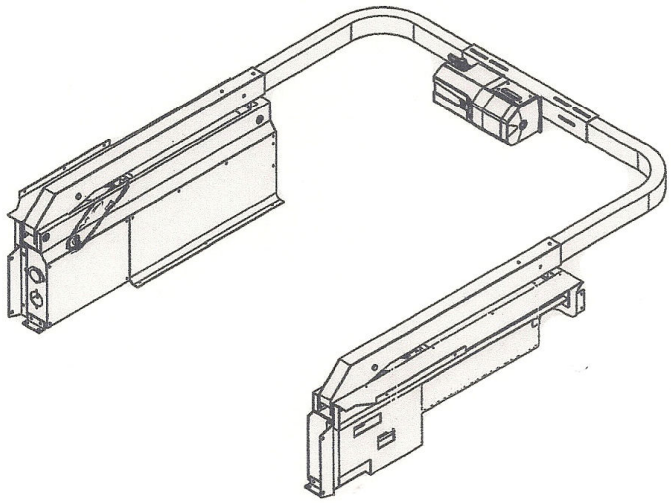
EZY-LIFT, INC.

EZY 1000

Installation Guide



Lift and load large heavy cargo up to 1000 lbs. easily and safely.

EZY-LIFT 1000

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INTRODUCTION

Safety

Caution: Read this entire procedure 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 our products. But remember that all efforts to provide safe equipment can be totally negated by a single careless act of 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:

"USE COMMON SENSE"

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. You must obey all safety messages that follow this symbol to avoid possible injury or death. Please refer to your owner's manual.

DANGER The Danger sign indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING The Warning sign indicates a potentially hazardous situation, which if not avoided, will result in death or serious injury.

CAUTION The Caution sign indicates a potentially hazardous situation, which if not avoided, could result in minor or moderate injury.

WARNING Overloading your vehicle can cause potential safety hazards!

Read and obey all Danger, Warning, Caution, and Operating Instructions on the Ezy-Lift and in this manual. Make sure 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.

The Ezy-Lift model 1000 6.5 and 1000 8 lifting systems have a rated lift capacity of 1000 lbs.

PRODUCT SPECIFICATIONS

Lifting Capacity	1,000 pounds for 6.5 to 8.0 foot cargo beds
Power Supply	12 VDC operating from vehicle battery, 150 amp fuse at battery
Hydraulic System	Bi-directional hydraulic pump & flow control valve. Two 2-1/2" hydraulic cylinders
Boom Winch	Designed for lifting with 159:1 gear rotation, full load mechanical brake, 5:1 safety factor
Wire Rope	1/4" diameter 7x19 construction, galvanized, 15 foot long with 1.5 ton eye hoist hook with latch and strap
Frame	11 gauge steel with black powder coat finish
Hub Bushings	Self-lubricating bronze sleeve bushings
Boom Lifting Arms	High strength structural steel
Remote Control	2 button 4-way control: up & down (Winch Rope), in & out (Boom) with 10 foot long cable
Boom Travel Time	From fully retracted to fully extended in approximately 45 seconds
Hydraulic Fluid	ATF, OD18 or other clean hydraulic oil with a viscosity of 150 to 360 SUS at 38° C (100°)
Operating Temp. Range	Range between 20° F to 140° F
System Weight	Approximately 280 pounds
Warranty	One Year

PREPARE FOR INSTALLATION

Completely empty the truck bed! Once empty it is recommended that the bed be power washed prior to installation.

Bed Liners Spray-in bed liners provide an acceptable mounting surface for Ezy-Lift installations. **However, hard plastic drop-in bed liners must be removed from the truck bed in order to provide a solid mounting suitable for installing Ezy-Lift.**

It Takes Two. Several steps in the installation require the assistance of another person.

NOTE: It is recommended that a lifting device, such as an engine hoist or pulley system, be used to lift and place the unit into position in the bed of the truck. However, if two people can together lift and place 280 pounds, it can be accomplished without the use of a hoist.

Identify all components supplied in the installation kit and match them with the parts list. If any components are missing, contact Ezy-Lift Tech Support at 713.589.9449 before beginning installation.

Park the truck on a level surface and set the parking brake and chock the wheels for safety.

TOOL NEEDED

Rivet Nut Tool (Included)	17/32” Drill Bit
Drill	5/16” Drill Bit
Tape Measure	#2 Phillips Screw Driver Bit
Ratchet	7/16” Open End Wrench
Rasp File	11/16” Open End Wrench
1/2” Deep Socket	15/16” Open End Wrench
5/32” Hex Socket	1/2” Open End Wrench
3/16” Hex Socket	5/8” Open End Wrench
Rubber Mallet	10mm Open End Wrench
1” Metal Hole Saw Drill Bit	9/16” Open End Wrench
Extension Cord	Diagonal Cutters

Attaching Pieces Included

Quantity	Description
14	15/16” x 1” Button Head Stainless Screw
16	1/4” x 3/4” Button Head Stainless Screw
12	3/4” Self Tapping Screw
8	5/16” Rivet Nut
16	5/16” Hex Nut
4	1/4” KEP Nut
14	5/16” Flat Washer
16	1/4” Split Lock Washer + 14 5/16” split Lock Washers
6	Rubber Grommets
6	Black Tie Wraps
1	Rivet Nut Tool
1	Manual/Installation Instructions

Read the instructions completely before installation. It is recommended not to skip steps. We have carefully considered the order of each step to ensure the best possible installation with the fewest possible problems.
Extra Parts The Ezy-Lift is shipped with a few extra attaching parts i.e. screws, washers, nuts, and bolts to ensure that there is enough to complete the installation. Having leftover at-

⚠ WARNING

Prior to installation, park the truck on a level surface, set the parking brake and chock the wheels for safety.

INSTALLATION

Measure the distance between the wheel wells. If the distance is less than 50 inches remove the “L” shims to the front of each side of the unit frame as is illustrated in red in Figure 1.

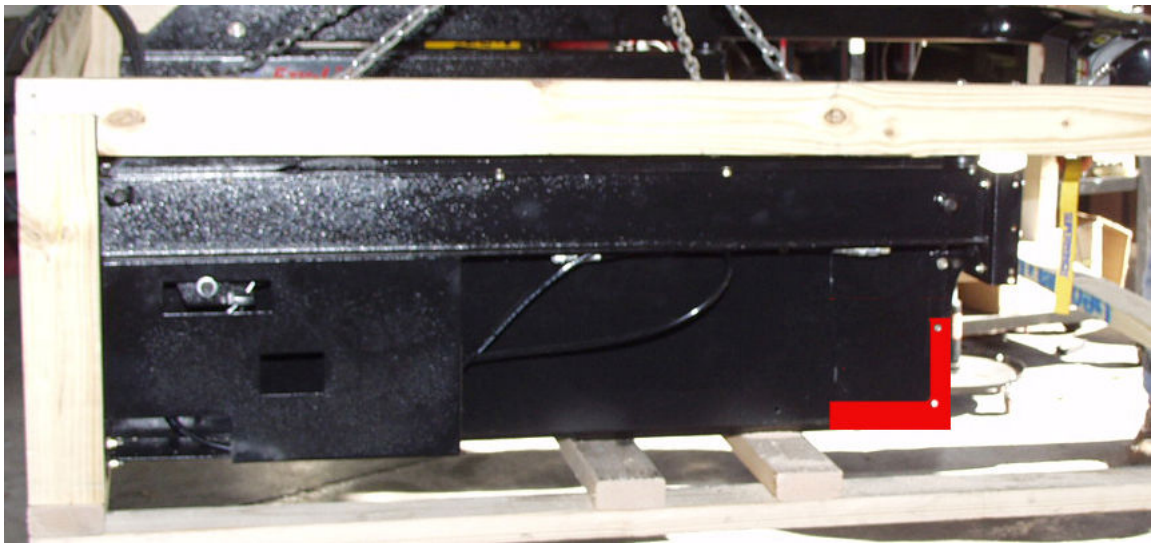

Figure 1

(Shim location illustrated in red.)

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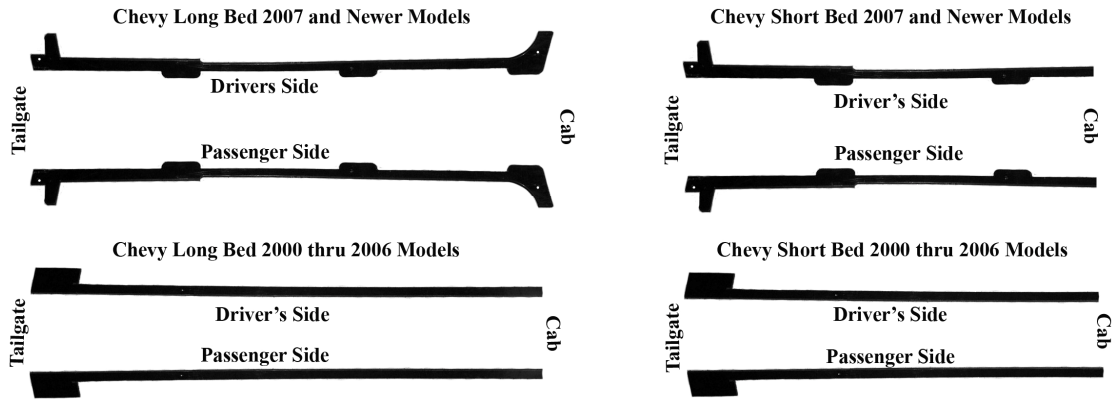
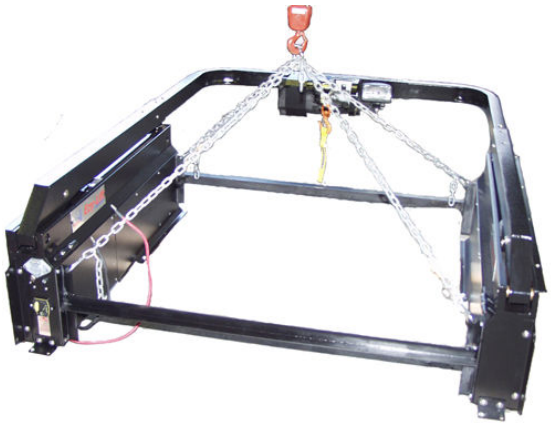
The Chevrolet pick-up Trucks require Frame Mounting Spacers to be laid into the bed grooves right next to the wheel wells prior to lowering the unit into the truck bed.



⚠ WARNING

After the truck is in position, turn off the engine, set the parking brake and chock the wheels.

After removing the packaging from the pallet, lower your hoist and hook the Ezy-Lift Loading Frame to the chains as indicated in Figure 2. (The chains are not provided). Hoist the lift off of the pallet to a level above the truck bed. Back the truck under the Ezy-Lift trying to center as close as possible.



Before lowering, make sure rear mounting angles bolts and front brackets are pushed completely to the inside of the truck bed so the unit can be lowered into place.

LOWER THE EZY-LIFT INTO THE TRUCK BED

(Do not remove the loading frame at this time)

ALIGN THE UNIT LIFTING ARMS.

Both arm frames must be installed parallel to each other down the sides of the truck bed. In order to assure that they are parallel, set the unit frame to the side of the bed and measure the distance from the side of the bed to the outer side of the frame.

Measure the position of the arm end.
Measure the other arm position.

If the two sides do not measure the same distance between the bed and the outer edge of the frame, you must adjust with the frame bracket. Loosen the two screws on the frame bracket and tap the bracket into the correct position to line up both sides. When the two sides are parallel, tighten the two screws on each of the frame brackets.

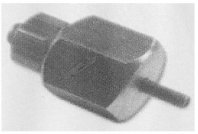
<u>Note</u> Ezy-Lift units for late model Chevrolet trucks use a different bracket (supplied) and these steps are not needed. Attach the Filler Plates at this point and center the unit.

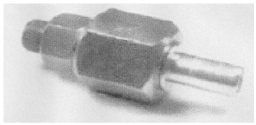
SECURE THE TAILGATE END FRAME BRACKETS

Make sure that the frames on both sides are pulled all the way back against the rear truck bed posts. Use the drill and use the 5/16” drill bit and align it through one of the holes in the bottom bracket. Drill through the bottom of the truck bed. Next drill the other hole. Insert screws and tighten with nut from the underside of the truck bed. Now the frame can no longer move out of position.

The next step is to secure the sides of the frame to the side of the truck bed. Remove the taillights to affix nuts onto the bolts from behind the tailgate with a wrench. Where this is not possible it is necessary to use rivet nuts.(Dodge) Use the drill with the 5/16" drill bit and, using the screw holes to align, drill the holes into the side of the bed if necessary. After the holes are drilled remove the side bracket from the arm frame. Replace the drill bit with a 17/32" drill bit and enlarge the two holes in the side of the bed. If the truck has a spray on bed liner, remove the liner around the holes so the rivet head will directly butt up to the sheet metal around the 17/32" drilled hole. Once this is done insert the 5/16" Rivet Nut with the Rivet Nut Tool.
(See instructions below.) Reattach the bracket, first with the screws into the bed bottom and secure them in place. Next, insert the two screws in the bed side and securely tighten. Repeat these steps in order on the other side.

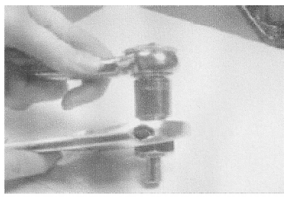
How To Use the RNHT Rivet Nut Hand Tool





The RNHT tool comprises of 3 parts, the upper body (the smaller body piece), the lower body, and the socket head cap screw. Put the socket head cap screw through the tool in the orientation shown in the picture. Then thread the rivet nut onto the screw until it rests against the underside of the bottom.

Insert the rivet nut into the hole of your application while it is threaded onto the tool. Then use a 7/8 inch wrench to keep the bottom body from turning. Next, put an 11/16 inch socket wrench over the top body and turn clockwise. This will thread the top body out of the bottom body. This lifts the treads of the rivet nut and collapses the rivet nut forming a bubble on the backside holding the rivet nut. Continue turning the wrench until it comes to a firm stop. Reverse the socket wrench to break the tension in the tool. Remove the socket and thread the screw out of the installed rivet nut. Screw the top body into the bottom before installing another rivet nut.

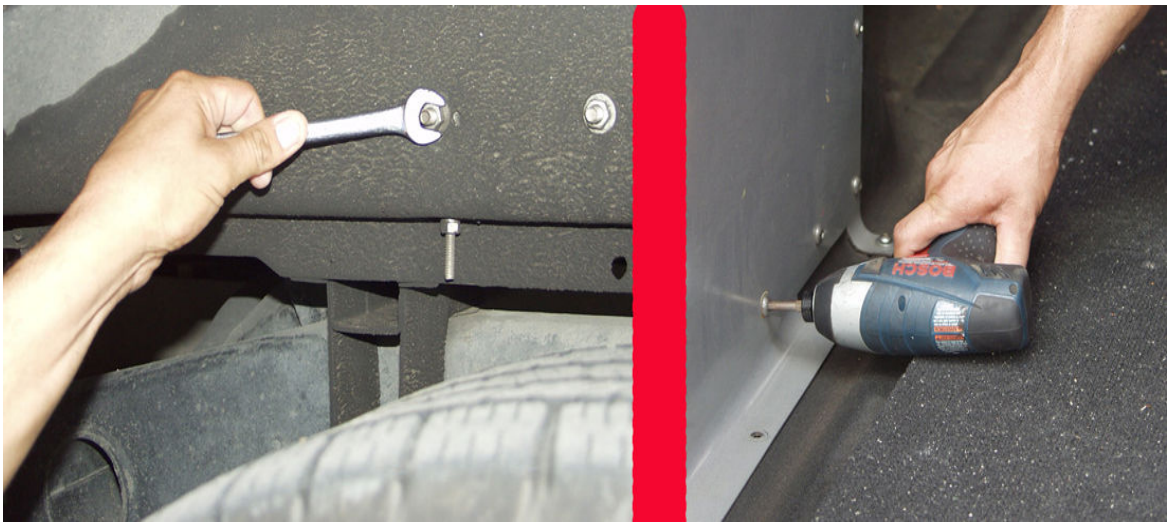


We recommend performing a test installation before installing into your application. Failing to perform a test could cause the threads to strip by over torquing.

MOUNT THE FRAME TO THE WHEEL WELLS

Use the drill with a 5/16” bit and align the bit with the screw holes in the side panel. **(Caution, on most trucks the holes will be located above the tire height. Check position of tire relative to the holes you are making into the wheel well before drilling.)** Drill three holes. Repeat process on the other frame.

Place the three-hole backing plate from the outside of the wheel well and tighten the 5/16” nuts with a 1/2” wrench. See figure 3 below.



SECURE THE FRONT FRAME BRACKETS

Loosen the 1/4” bolts for the front mount bracket. Use the self tapping screws to attach the bracket to the side of the truck bed. (Note the bracket has three screw holes but depending on the size and shape of your truck’s wheel well it might not be necessary to use all three.)

Now align the 1/4” drill bit through the bottom hole of the “L” bracket and drill through the wheel well. (Note the “L” bracket might have to be bent to match the wheel well. Insert the screw in the hole and using the 3/16” Allen wrench and a 7/16” wrench for the nut, securely tighten. Now retighten the two 1/4” bolts for the brackets.

Repeat steps on the other side.

Secure frame base to the truck bed

Before this step insure that you can access and fit a 1/4” nut from underneath the truck bed. If this is not possible use the self tapping sheet metal screws (supplied). Align the 1/4”” drill bit through each of the three holes on the bottom frame brackets. (It is not necessary to use all three holes if not possible.) Drill the holes and insert screws. Tighten securely with provided nuts

.

After these steps have been completed remove the loading frame and discard.

Feed and attach hydraulic hoses

Note the unit is pre-bled and tested

Remove the two hydraulic hoses from the counter balance valve on the driver's side of the truck. Use the hose fitting plugs provided and plug the hoses.

On the driver's side drill three 1" holes through the bottom of the truck bed using a hole-saw**.** Insert a rubber grommet in each hole.
(Note Make sure to check under the truck for an open area before drilling.) On the passenger side drill two 1" holes and insert two rubber grommets. Feed the hoses down through the holes on the passenger side of the truck and pass them under the truck bed, up through the two holes in the driver's side that are the farthest from the tailgate and set the ends next to the counter balance valve.

Next remove one of the fitting-plug from one of the hoses, affix the end to the valve fitting and tighten. Repeat with the other hose end. The larger (#6) fitting requires an 11/16" wrench and the smaller (#4) requires a 9/16" wrench. Use the tie wraps to secure the hoses to the under side of the truck.

CONNECTING THE ELECTRICAL CORD

Open the red Power Cord package. Locate the long red Power Cord and lay it out the length of the truck along side the driver's side. Find the Fuse Box and Fuse and the short Power Cord. Position the short cord from the battery to a clear area of the truck's engine compartment firewall. Mount the Fuse Box to the firewall in this area. Connect the short cord to the Fuse Terminal closest to the battery. Pass the end of the long up into the engine compartment and connect it to the other Fuse Terminal. Place the Fuse Box cover on the Fuse Box and secure.

Run the long Power Cord under the truck bed and attach it to the chassis with the supplied tie wraps.

Feed the positive up through the remaining hole, which should be the hole closest to the tail-gate. Attach the red power to the power terminal marked "Line" on the On/Off Switch. Run the ground line from where it is secured on the lift frame run it down through the same hole and mount it to the chassis under the truck. Insure that the terminal attaching points are clean to bare metal. Connect the Power Cord to the truck's battery terminal.

Check the Hydraulic Fluid in the Lift Pump

Check that the hydraulic fluid reservoir is about two thirds full. Insert the remote control plug into the remote receptacle and press the "Boom Out" button. Bring the Boom all the way out then bring it all the way back in to the resting position. The fluid level should be right at the highest notch. If it is below the notch add a little more fluid.

Finish Frame Construction

Place the Side Fillers in between the Boom Arm and the bed side wall. Secure the bottom to the Frame with the 5/16 inch screws and the side of the Frame Cover with the self-tapping screws.

Finally, attach the Side Cover Panels to both sides of the Frame.

The installation is complete and the unit is ready to lift, load and go.

Technical Support call: 713.589.9449
Email: techsupport@ezylift.com

KNOW YOUR EZY-LIFT

SAFETY

It is the Owner's/Operator's responsibility to use good judgment in the operation and maintenance of this equipment.

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 lifting system. Anyone who operates the equipment must read and fully understand this manual, prior to operating the lift. 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.

WARNING

Because Ezylift, Inc. has no direct involvement or control over the Ezy-Lift operation and application, conforming to good safety practices is the responsibility of the owner, the user, and its operating personnel.

It is the responsibility of the Owner/Operator to require that all personnel that will install, inspect, test, maintain, and operate the Ezy-Lift devise read the contents of this Owner's Manual.

Only those authorized and qualified personnel who have shown that they have read and have understood the owner's manual and that they understand the proper operation and maintenance of the Ezy-Lift should be permitted to operate the Ezy-Lift.

General Safety Information

Read and save all instructions

Do not engage in any practice that will divert attention while operating the Ezy-Lift.

Do not 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.

Take time to practice operations so that you are comfortable with the operating system prior to working with a load.

Do not allow the wire winch rope to slide through bare hands when spooling or un-spooling. Use leather gloves and the strap when handling the rope.

Never allow children or unauthorized personnel to operate the system at any time.

Never use the unit for lifting, supporting or transporting people!

Never stand beneath the load or Ezy-Lift frame or use over areas where people are present.

Do not work under the load unless the load is supported by blocks, jacks or solid footing that will support a weight greater than the weight of the entire load.

Use caution, keep people, pets and property clear of the path of the load. Keep your work area clear and free of obstructions.

Do not use for supporting an unattended loads.

Do not use for towing other vehicles.

BEFORE OPERATING

Visually inspect the hook, winch cable, winch and accessories for any damage or wear. Do not use 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 truck's cargo bed and suspension systems are in good condition, i.e., shocks, springs, etc.

Check to see that all frame fastening screws are secure.

Check for any evidence of hydraulic fluid leaks.

MOVING A LOAD

Center the hook over the load to keep the cable from slipping uot 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.

Avoid putting fingers or arms in the pinch points between the boom arms and the frame.

Do not stand in cargo bed when loading and unloading.

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 has become inoperative and the load must be left suspended for any length of time, barricade and post signs under the load and on three sides. Turn off the truck and lock it so that it cannot be moved.

NEVER MOVE A TRUCK WITH A SUSPENDED LOAD.

OPERATION

Your Ezy-Lift system operates from the vehicle's 12 volt battery which provides power to the crane winch and the hydraulic power unit. The hydraulic unit is completely self-contained with a DC motor, gear pump, reservoir, load hold checks and relief valves to prevent over-loading. 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 the life of the hydraulic pump and winch.**

TURN THE OFF/ON SWITCH TO THE ON POSITION

Step 1: Position your truck to allow the entire loading or unloading operation to be performed without having to move the vehicle. Ideally, the truck will be on level solid ground. Make sure that there is adequate overhead clearance for the boom arms.

Step 2: Set the truck's parking brake and leave the engine running to prevent the battery from discharging.

Step 3: **Open the truck tailgate.** This is very important to prevent damage to the truck or even the cargo. In some instances it might be necessary to remove the tailgate prior to loading.

Step 4: Plug the remote control plug into the power/control receptacle that is located on the drive side tailgate end of the unit frame. The unit is ready to operate.

The remote control has two rocker buttons, one for the boom and one for the winch. Each button is double acting with the following commands: Boom In, Boom Out, Hoist Down and Hoist Up. To activate the boom arms press and hold the "Boom Out" control button. This will cause the arms to rise from the parked position and rotate out over the truck bed to approximately 150°. To reverse the process and return the boom to it's parked position, simply press and hold the "Boom In" button. Similarly, to activate the winch, press and hold the "Hoist Down" button to unspool the wire rope and "Hoist Up" to re-spool it. Both the boom and the winch will cease to operate when the respective button is released.

Become comfortable with operating the system. Practice moving the boom in and out and unspooling and spooling the winch cable. With the winch cable become familiar with re-spooling the wire rope with the tension necessary to rewind evenly without the wire overlapping.

Step 5: Now that you are familiar with the controls, press and hold the "Boom Out" button to lift the boom arm out of the bed and over the cargo.

Ensure that the winch is positioned directly over the cargo so that the cable drops down directly over the load to prevent swinging as it is hoisted from the ground. A swinging load could cause injury and or property damage.

For larger loads it might be necessary to remove the tailgate in order to correctly position the winch above the load. Failure to do so may cause damage to your vehicle or the cargo.

Step 6: With the boom arm and winch now centered over the load, depress the "Hoist Down" button to lower the wire rope'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 wire cable around the load. Use a nylon sling or metal chain to secure the load to the hoist hook. Wrapping the wire rope 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 on the tip of the hoist hook or attempt to lift from the tip of the hook. Make sure that the nylon or chain is properly seated in the hoist hook saddle.

Step 7: With the load now attached, press and hold the "Hoist Up" button. Slowly take up any slack in the wire rope until it becomes taut. Keep tension on the wire cable during this process and insure that the rope spools evenly across the drum. Stop. Recheck all lifting connections before proceeding to lift the load.

Step 8: When convinced that all lifting connections are secure, slowly hoist the load off of the ground high enough to clear the truck bed floor.

Step 9: Depress the "Boom In" button to move the load over and into the truck bed. Use the "Hoist Down" button to unspool the wire rope just enough to keep the load low, just slightly over the truck bed. Once the load is in its desired position release the "Boom In" to stop the boom arms.

Step 10: Slowly lower the load onto the truck bed by depressing the "Hoist Down" button until the load is resting safely and securely in the truck bed.

Step 11: Return the boom arm to the parked position. Draw the wire rope taut to help secure the load during transport.

Step 12: Remove the remote control from the cord receptacle and store in a clean dry place. Turn the Off/On switch to the Off position.

To prevent unauthorized use of the unit never leave the truck unattended with the remote control plugged into the receptacle.

Avoid pulls from angles as this can damage the frame and lift arms. Continuous pulls at angles will also cause the wire rope to pile at one end of the drum. This can cause the wire rope to jam and damage the winch or wire rope.

Always maintain at least five (5) wraps of the wire rope on the winch drum, otherwise the wire rope drum fasteners will not withstand the weight of the load.

Ezy-Lift Inspection & Maintenance

Ezy-Lift is designed to give years of carefree operation. However, as with any mechanical product, periodic inspection and maintenance is require keep the unit in optimal operating condition.

Here are a few tips that owner/operators should periodically perform to keep the unit in top operating condition. Please review this information. If you should have any questions please contact us during normal business hours, Central Standard Time, Monday through Friday, excluding holidays.

INSPECTIONS

Routinely check the six screws at the winch cross bar and boom arms which attach the two together. Lifting vibration can cause one or more of the screws to loosen over time. Loose screws could result in the separation of the cross bar from the boom arms under load.

Winch Wire Rope

Wire rope consists of a core, strands, and wires that comprise a strand. The wire rope fits and wraps into grooves on the circumference on the winch drum that transmits motion to the rope.

Routinely check the winch wire rope has not become loosely wound. Under load, a loosely wound rope allows the rope to work its way down into the layers of wrap on the drum.

This can cause the rope to become wedged within the body of the wraps on the drum and damage the wire rope. Keep tension on the wire rope during spooling and unspooling. A good practice is to inspect and rewind the wire rope under tension after each use.

Routinely check to see that the wire rope is evenly wound on the drum and not bunched to one side or the other of the winch drum.

Routinely check the wire rope for evidence of kinking or fraying. Fraying and kinking reduces the load capacity of the wire rope. Replace the wire rope immediately is either condition is found.

When replacing the wire rope be sure to insert the attaching end of the wire rope into the correct end of the drum hole (See Figure 2). Tighten the set screw securely. To insure the correct wire rope replacement part, obtain the part from Ezy-Lift.

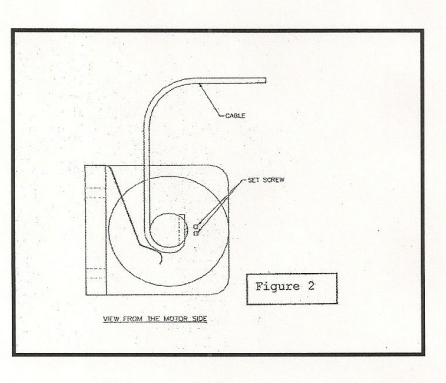


Figure 2

Use heavy leather gloves when handling the wire rope. Do not allow the wire rope through bare hands.

Hydraulic Maintenance

Ezy-Lift's 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 as needed to maintain full capacity. The hydraulic pump and fluid reservoir are located directly behind the access panel on the rear driver's side of the unit. With the cylinders fully retracted (lift arms in the parked position), the reservoir should be approximately 2/3 full 1 to 1-1/2 inches below the filler inlet. (See Figure 3) Do not overfill. Adding too much oil will cause the reservoir to overflow. Use automatic transmission fluid with a viscosity range of 150-300 SSU at 100°F.

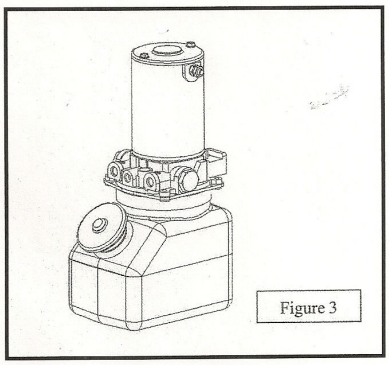


Figure 3

MAINTENANCE

Your Ezy-Lift lifting system should b serviced every 2 years or 400 hours of normal operation. That maintenance includes:

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 and 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"
	A.) Remote Control assembly not properly plugged in	Remove and re-insert the Remote Control assembly
	B.) Poor electrical connection	Check & repair or replace the Remote Control assembly
	C.) Vehicle battery charge is low	Recharge or replace battery
	D.) Fuse at vehicle battery blown	Replace Fuse
	E.) Faulty contactor	Contact factory authorized agent for repair or replacement
Winch will not operate or it runs in one direction	A.) Remote Control assembly not properly plugged in	Remove and re-insert the Remote Control assembly
	B.) Poor electrical connection	Check & repair or replace the Remote Control assembly
	C.) Vehicle battery charge is low	Recharge or replace battery
	D.) Fuse at vehicle battery blown	Replace Fuse

WARRANTY

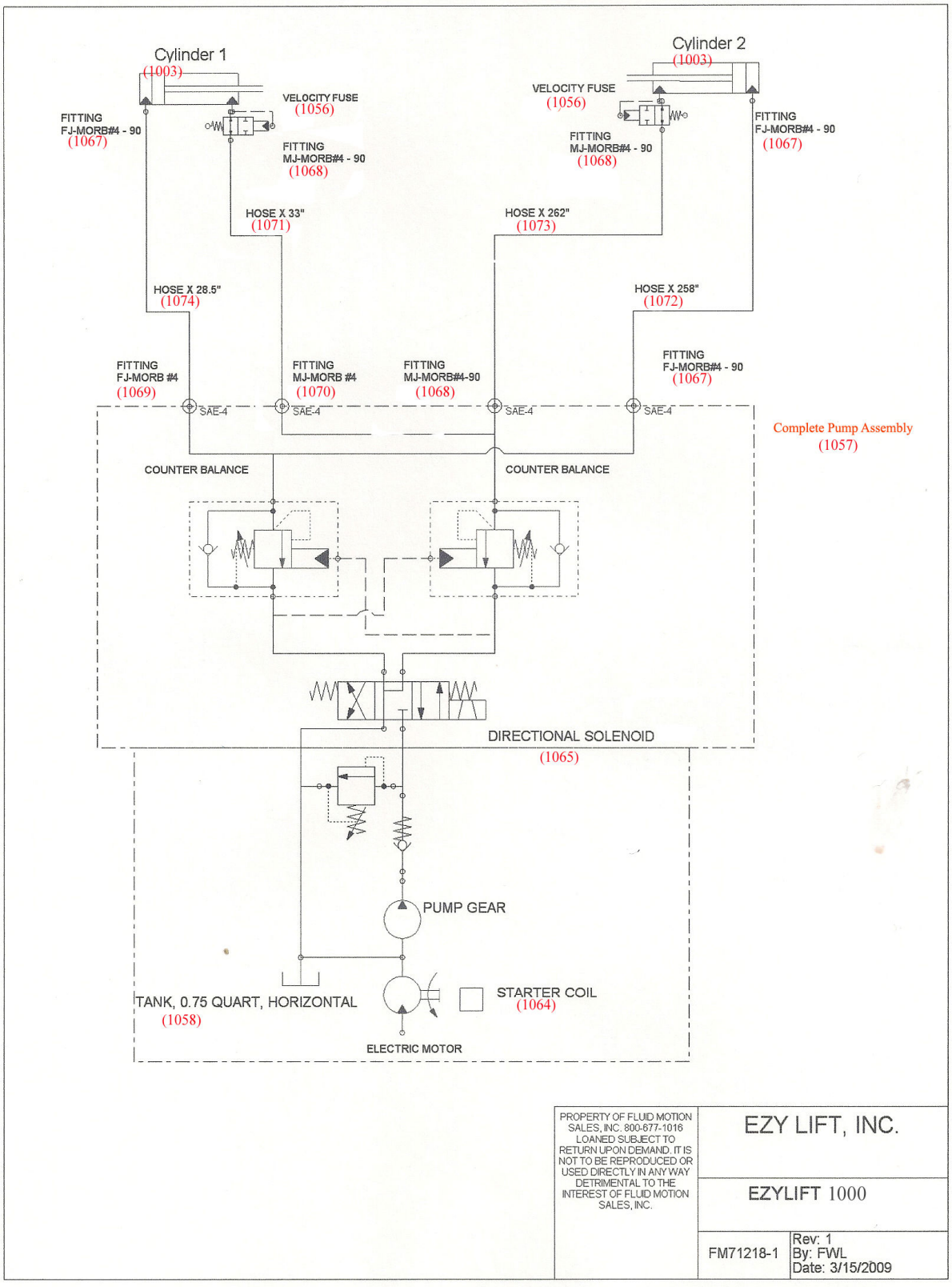
Ezy-Lift, Inc. warrants the Ezy-Lift product to the original Buyer against defective materials and parts for one (1) year from the date of purchase Ezy-Lift's sole and exclusive liability, and the Buyer's sole and exclusive remedy, under this warranty, is the repair or replacement of any materials or parts determined to be defective. 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, and damages or injury of any kind based upon claim for breach of warranty.

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

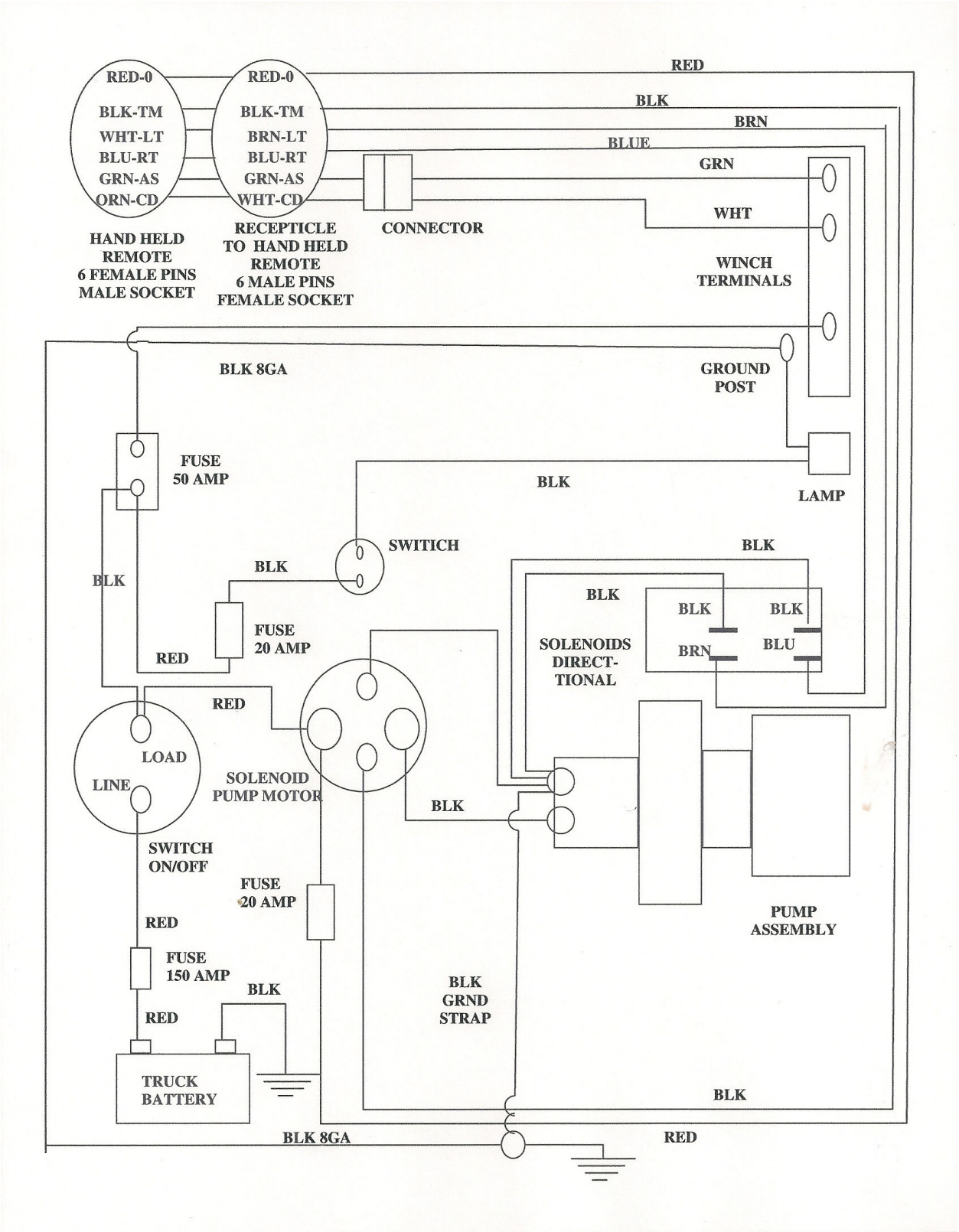
To obtain warranty service, contact EZY-LIFT at 713.589.9449 during business hours, 8:00 AM till 5:00 PM, Central Standard Time, Monday thru Friday, excluding holidays. Be prepared to provide: (1) name, address, and phone number; (2) proof of purchase; (3) unit serial number; and (4) an explanation of the problem.

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

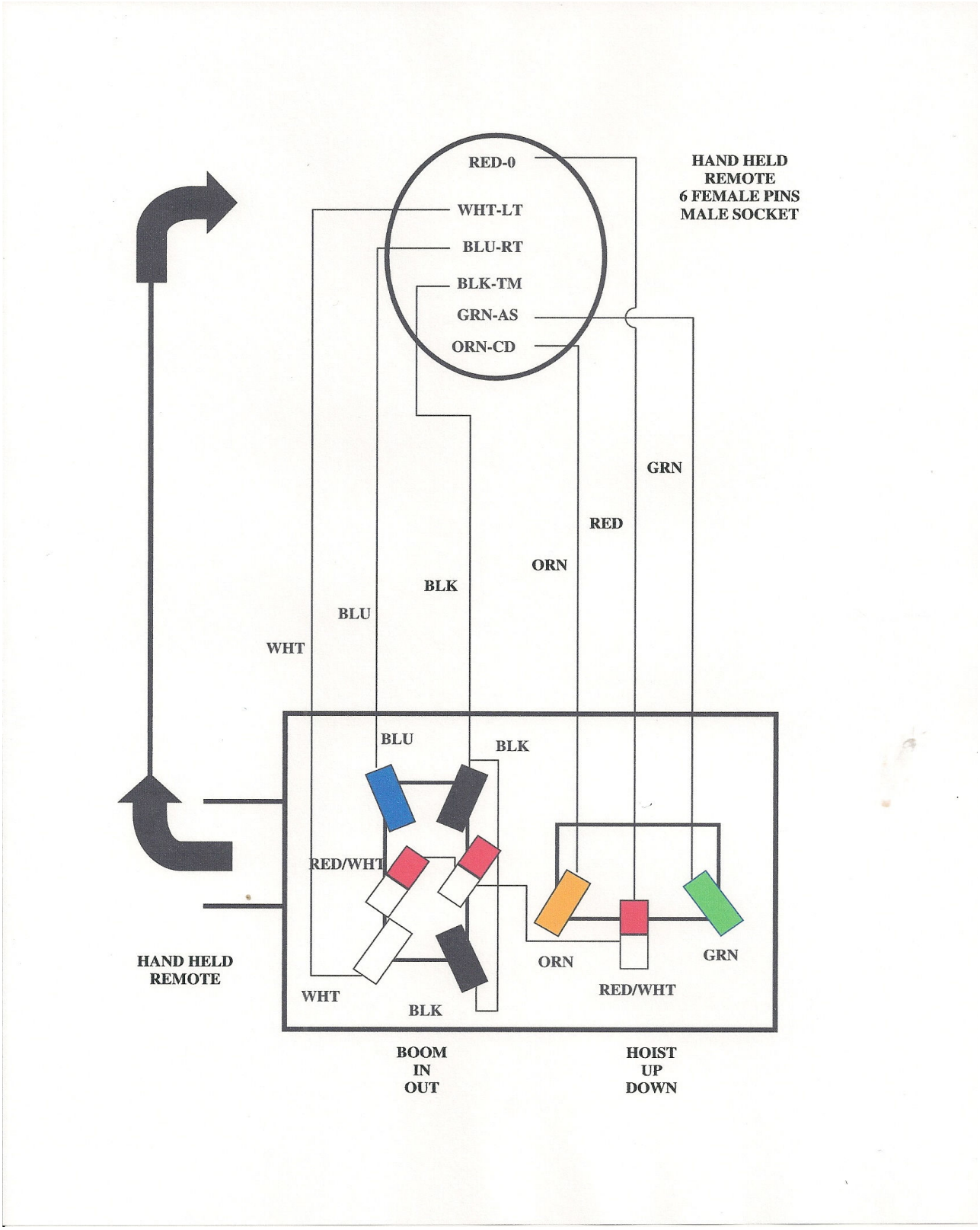
Hydraulic Diagram



Electrical Scheme



Electrical Diagram - Remote Control



Ezy-Lift Parts List

1-Jan-10

1000 LB PT

Order #	Description
1001	Adjustable Cross Bar 1000
1002	Arm 1000 6.5
1003	Cylinder 2.5" /16-1000
1004	Clevis Bracket, Cylinder
1005	Cylinder Rod Jam Nut
1006	Linking Arm, High Side 16"
1007	Connecting Rod, Low Side 16"
1008	Arm Bushing Flare
1009	Arm Bushing 1-1/4
1010	Arm Bushing 3/4
1011	Arm Bushing 7/16
1012	Clevis Pin
1013	Clevis Pin
1014	Clevis Pin
1015	E Clip
1016	Shoulder Bolt 3-1/2
1017	Shoulder Bolt 4-14
1018	Rubber Cusion Frame Top/Arm
1019	Clevis Pin Plastic Cover Small
1020	Clevis Pin Plastic Cover Large
1021	Frame Top Filler Plate, Pass-Chevy Short Bed - 2007 Newer
1022	Frame Top Filler Plate, Drive-Chevy Short Bed - 2007 Newer
1023	Frame Top Filler Plate, Chevy Short Bed - 2006 Older
1024	Frame Top Filler Plate, Pass Chevy Long Bed Tool Box 2007 Newer
1025	Frame Top Filler Plate, Drive Chevy Long Bed Tool Box 2007 Newer
1026	Frame Top Filler Plate, Chevy Long Bed Tool Box 2006 Older
1027	Frame Top Filler Plate, Pass Chevy Long Bed 2007 Newer
1028	Frame Top Filler Plate, Drive Chevy Long Bed 2007 Newer
1029	Frame Top Filler Plate, Chevy long Bed 2006 Older
1030	Frame Top Filler Plate, Dodge Short Bed
1031	Frame Top Filler Plate, Dodge Long Bed
1032	Frame Top Filler Plate, Dodge Long Bed Tool Box
1033	Frame Top Filler Plate, Ford Short Bed F-150
1034	Frame Top Filler Plate, Ford Short Bed F-250/F-350
1035	Frame Top Filler Plate, Ford F-150 Long Bed
1036	Frame Top Filler Plate, Ford F-250/F-350 Long Bed
1037	Frame Top Filler Plate, Ford F-150 Long Bed Tool Box
1038	Frame Top Filler Plate, Ford F-250/F-350 Long Bed Tool Box
1039	Frame Top Filler Plate, Pass Toyota Short Bed Long Tool Box
1040	Frame Top Filler Plate, Drive Toyota Short Bed Long Tool Box
1041	Frame Top Filler Plate, Pass Toyota Long Bed
1042	Frame Top Filler Plate, Drive Toyota Long Bed
1043	Rear Post Bracket-Drive Side
1044	Rear Post Bracket-Passenger Side
1045	Rear Foot Bracket Chevrolet, Drive Side
1046	Rear Foot Bracket Chevrolet, Passenger Side

1047	Front Frame Slide Bracket - Universal
1048	Front Frame Slide Bracket - Chevy Pass Side-4-2009
1049	Front Frame Slide Bracket - Chevy Drive Side-4-2009
1050	Front Frame Universal Bracket
1051	3 Hole Wheel Well Frame Mounting Bracket
1052	Side Access Panel PT6.5/8.0
1053	Winch Protection Plate
1054	Terminal Block Protection Plate 3 Inch
1055	Rear Foot Bracket Universal
1056	Cylinder Velocity Fuse
1057	Hydraulic Pump-1000 Lbs
1058	Reservoir, Hydraulic Pump - 1000 .79
1059	Reservoir, Breather Cap
1060	Reservoir, Grommet
1061	Reservoir, Clamp
1062	Reservoir, Bolt
1063	Reservoir, Tank Seal Ring
1064	Solenoid, Starter Coil
1065	Solenoid, Directional
1066	HOSE_KIT-100R7XPT6.5
1067	Fitting, 90° Female FJ-MAORB #4-90
1068	Fitting, 90° Male MJ-MAORB #4-90
1069	Fitting, Sraight Female FJ-MORB #4
1070	Fitting, Straight Male MJ-MORB #4
1071	Hose - 33" - Female to Female - 1000 Lbs
1072	Hose - 258" - Male to Male - 1000 Lbs
1073	Hose - 262" - Female to Female - 1000 Lbs
1074	Hose - 28.5" - Male to Male - 1000 Lbs
1075	Remote Control
1076	Remote Control Recptacle w/Wiring Harness
1077	Remote Control Fuse - 20 AMP
1078	Cross Bar Light Switch
1079	Cross Bar Light Switch Fuse Holder
1080	Cross Bar Light Switch Fuse - 20 AMP
1081	Winch Overload Switch
1082	Unit On/Off Switch w/Overload
1083	Cable, Main Power
1084	Cable, Main Power Battery
1085	Cable, Main Power Fuse Holder
1086	Cable Main Power Fuse - 150 AMP
1087	Wiring Harness, Pump Solenoid Pick Up
1088	Wiring Harness, Winch Pick Up
1089	Unit Ground Wire 3 Foot
1090	Winch Ground Wire 13 Foot
1091	Pump Solenoid Ground Wire 1 Foot
1092	Cross Bar Light
1093	Winch Terminal Block
1094	Winch
1095	Plastic Winch Cover
1096	Winch Cable with Hook
1097	Winch Solenoid
1098	Gromet, 1-1/2"

1099	Bolt, Cushion - SS Hex Head 5/16 x 1
1100	Flat Washer, Fender - SS 5/16
1101	5/16 x 4 High Tinsel Hex Head Bolt
1102	5/16 Flat Washer SS
1103	5/16 Lock Washer SS
1104	5/16 Nylon Lock Nut SS
1105	Screw, Button Head SS 1/4 x 3/4
1106	Screw, Button Head SS 5/16 x 1-1/4
1107	1/4 Flat Washer SS
1108	5/16 Fin Nut SS
1109	Self Tapping Screw 3/4
1110	Rivet Nut Tool
1111	5/16 - 18 Blind Rivet Nut
1112	1/4 - 20 Blind Rivet Nut
1113	1/2 x 13 Hex Head Bolt
1114	1/2 Nylon Lock Nut
1115	Pully Block
1116	Pully Strap
1117	Chevy 2007 Short Bed Mount Shim
1118	Chevy Older Short Bed Mount Shim
1119	L Spacer - 3/8 HDPE
1120	Feo Bar Front
1121	Feo Bar Rear
1122	Winch Cable Stabalizer
1123	Anchor Point Chevrolet
1124	Decal, Think Turn Off...
1125	Decal, Think Lower Tailgate...
1126	Decal, Danger Keep Hands...
1127	Decal, Ezy-Lift Silver 15"
1128	Decal, Ezy-Lift White
1129	Decal, Notice Model 1000...
1130	Decal, Warning Avoid Injury...
1131	Decal, Be Careful Overhead...
1132	1/4 Nut
1133	3/8 Screw
1134	Front Slide Bracket Ford Drive Side 4-2009
1135	Front Slide Bracket Ford Pass Side 4-2009
1136	Fitting Male-MJXFJ90
1137	Shoulder Bolt 5"
1138	Terminal Block Protection Plate 1000
1139	Cross Bar Light Replacement Bulb