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USERS MANUAL P/N 27929 L-21WS-7 ATB 7 FT. BOOM, W/WINCH 23872

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CRANE SAFETY RULES

CAUTION!

- 1. READ AND UNDERSTAND OPERATOR'S MANUAL.
- 2. INSPECT VEHICLE AND CRANE, INCLUDING ITS OPERATION, BEFORE DAILY USE.
- 3. USE THIS EQUIPMENT ONLY ON SOLID LEVEL GROUND WITH OUTRIGGERS OR JACKSTANDS PROPERLY SET.
- 4. BEFORE OPERATING THE CRANE REFER TO MAXIMUM LOAD CHART ON CRANE FOR OPERATING LOAD LIMITS.
- 5. BE SURE LOAD BEING LIFTED IS WITHIN SAFE WINCH CAPACITY AS WELL AS SAFE CRANE CAPACITY. MULTI-PART LINE OPERATION IS REQUIRED WHEN SINGLE LINE LOAD CAPACITY OF WINCH IS EXCEEDED.
- 6. DO NOT OPERATE, WALK, OR STAND UNDER THE BOOM OR ANY SUSPENDED LOAD.
- 7. ALWAYS PAY OUT LOAD LINE BEFORE EXTENDING BOOM. WIRE ROPE DAMAGE AND / OR BREAKAGE MAY OCCUR.
- 8. BOOM MUST BE IN ITS REST BEFORE MOVING VEHICLE.
- 9. BOOM TIP MUST BE DIRECTLY OVER THE LOAD BEFORE ANY LIFTING IS STARTED. DO NOT DRAG LOADS WITH THIS CRANE.
- 10. MAINTAIN THIS CRANE AS REQUIRED IN THE OWNER'S MANUAL.
- 11.DO NOT ALLOW PERSONNEL TO RIDE ON THE LOAD LINE, LOAD, OR BOOM OF THIS CRANE.
- 12.IT IS UNLAWFUL TO OPERATE THIS EQUIPMENT WITHIN TEN FEET OF HIGH VOLTAGE LINE





INTRODUCTION

This crane is a powerful machine designed to lift and move heavy loads. There are many hazards associated with these operations. Liftmoore has designed this crane to be as safe as possible but -

IT IS THE OPERATOR'S RESPONSIBILITY TO PREVENT ACCIDENTS!

This takes pre-planning, attention, and knowledge of basic principles and rules. Even if you have used similar cranes, reading this manual in its entirety will help prevent damage, injury, or even loss of life; benefits well worth the short amount of time it takes to read these pages.

REGULATORY AUTHORITY

Use of this crane is governed by OSHA 29 CFR 1910.180 and may be governed by other federal, state, or local regulations.

IT IS THE OPERATOR'S RESPONSIBILITY TO UNDERSTAND AND COMPLY WITH ALL APPLICABLE REGULATIONS GOVERNING THE OPERATION, INSPECTION, AND MAINTENANCE OF THIS CRANE.

Personnel should be trained, tested, and certified, as recommended by OSHA and ANSI standards, before operating this crane.

USING THIS MANUAL

This manual assumes that the crane is mounted on a typical service body type or similar truck, which is powered by the vehicle electrical or hydraulic system, and is controlled by either the standard pendant control or FM radio control sold by Liftmoore, Inc.

This manual is supplied to provide basic guidelines for the safe use, routine maintenance, and general inspections of this crane.

Laws, regulations, standards, or policies may be more restrictive than this manual. If a conflict exists for any limit or condition, the safest or most prohibitive shall be used. Under no circumstances shall the load, moment, or stability ratings be exceeded.

Pay particular attention to the following:

WARNING! – Draws attention to hazards, conditions, or procedures that if not observed could result in injury or death.

CAUTION! – Draws attention to hazards, conditions, or procedures that if not observed could result in damage to the crane, load, or other equipment. Equipment failure could in turn lead to injury or death.

NOTE! – Draws attention to conditions or procedures that are essential to emphasize.

For questions, interpretations, or to report errors, please contact Liftmoore, Inc., Engineering Dept.



OPERATING RESTRICTIONS

DUTY CYCLE

For Electric Cranes the duty cycle time should be limited to 10%. This is limited by heat buildup in the motors and declining charge in the batteries. (Installing extra batteries near the crane helps keep the voltage at maximum.)

PERSONNEL

LIFTING OR MOVING OF PERSONNEL IS STRICTLY PROHIBITED! This crane was neither designed nor intended to lift personnel. Under no circumstances should anyone be allowed to ride on the crane, line, or load. All non-essential personnel must be kept away when using the crane. The load must never be moved over people, nor must anyone be allowed to pass or stand under a suspended load.

ELECTRICAL LINES

Consult ANSI B30.5 for operating procedures, minimum safe distances, and prohibited zones when working around electrical lines or poles.

When operating near electrical power lines, the crane must be positioned so that the distance from the crane to the lines or poles is equal to or greater than the length of the fully extended boom plus the minimum safe distance required.

All parts of the crane, line, and load must be kept a minimum safe distance from electrical power lines and poles. This distance is 10 feet for electrical lines carrying 50kV or less.

UNDER NO CIRCUMSTANCES SHOULD A CRANE BE OPERATED UNDER ELECTRICAL POWER LINES.

OPERATING PRACTICES

SETUP

POSITION The vehicle must be positioned so that the load is kept as close to the crane base as possible to reduce the moment on the crane. Consideration must be given to starting and ending position as well as firmness and slope of the ground and any obstructions.

OUTRIGGERS/JACKSTANDS The

outriggers or jackstands must be firmly set and the vehicle as level as possible. This will reduce the stresses on the rotation drive and keep the load off the vehicle's suspension. Keep in mind that the weight on the vehicle will shift as the crane and load are rotated.

Set the vehicle's parking brake. The jackstand is inserted into the tube in the released position. Set the hitch pin so that the jackstand will lift the truck slightly when put into the locked position. When setting up the jackstand, it must be straight up and down. It must be in contact with a hard, unyielding surface. If necessary use a heavy timber to support the load on soft surfaces. When set, the vehicle should be as level as possible. It is advisable to set wheel chocks to hold the vehicle in position.

After loading the vehicle it may not be possible to remove the jackstand by releasing the handle. When this occurs the vehicle may be driven off the stand.

Use the jackstand on every load. Even a light load can cause considerable tilt when picked up at a large radius. Use the jackstand to keep the truck level,



LOAD LIMIT The operator must understand the crane load chart. The operator must ensure that the load is within the load limits over the entire range which it will be moved. Be sure to include the weight of any lifting devices including the travel block.

The load limit chart is attached to the side of the crane to aid the operator.

STABILITY The operator is responsible to verify that the truck is stable at any area where the Crane is rotated.

TRAVEL BLOCK The operator must determine if the load is within the single line compatibility of the winch or if a multi-part line configuration is needed.

REEVING Ensure the proper routing of the rope through the sheaves and travel block. The rope must lie in the sheave groove and must not rub against any metal objects.

Ensure the rope is correctly wound on the winch drum. The crane assembly drawing will indicate if the rope must be wound over the top or bottom of the drum. The rope must never contact any part of the winch mounting.

WARNING!

If the winch winding direction is reversed the brake will not work and the load will fall.

ATTACHING THE LOAD

POSITION The boom tip must be moved over the load before lifting so that the load will be lifted straight up.

CAUTION

Never drag a load with the crane. Dragging a load puts very high stresses on the crane for which it was not designed.

ROPE Check the rope condition to ensure it is not frayed or damaged. Ensure that the rope is not kinked and that it does not contact any sharp edges or make any sharp bends.

If using double line configuration, ensure that the lines are not twisted.

CAUTIONI

Never wrap the hoist rope around the load! Serious damage to the rope WILL occur.

HOOK Always make sure the load is applied to the throat of the hook. Never use a bent hook.

CAUTION!

Always lift with the throat of the hook. Never lift with the load applied to the tip of the hook. Doing so will bend the hook.

SLINGS If the load does not have a lifting eye, use a nylon, chain, or other type of sling designed for lifting and rated for loads greater than that being lifted.



BALANCE Ensure the load will be secure and balanced when lifted. Ensure that the load cannot shift in the sling and that the sling cannot slide across the hook should the load become unbalanced.

LIFTING THE LOAD

Before lifting, ensure that the load is free from all mountings and is no way attached or stuck to anything.

Ensure that at least five full wraps remain on the winch drum at all times.

Test the winch brake by lifting the load a few inches and ensuring that it does not slip.

HOLDING THE LOAD

The operator must keep the load in sight at all times once it is lifted.

The operator must never leave the controls once the load is lifted.

The operator must ensure that no one is allowed to pass or stand under a suspended load.

CAUTION!

Never move the vehicle with a suspended load. Doing so will put dynamic loads on the crane for which it was not designed.

MOVING THE LOAD

If the truck is not level when a load is lifted on a Manual Rotation Crane, the load will gravitate to the lowest point. Caution must be taken to ensure the operator is not in a Pinch Position (on a downhill side of the lift point). The Manual Brake Band should be snug to help control the swing but still allow the load to be pushed around to the area where it is to be set down.

TRANSIT

While in transit, the crane must be stowed, preferably in a boom rest. The crane must be prevented from rotating and the hook prevented from swinging.



INSPECTION AND MAINTENANCE

OSHA and ANSI require frequent and periodic Inspections. Records of these inspections must be kept readily available. Liftmoore requires periodic maintenance to ensure proper operation and prolonged life of the crane

INSPECTION

DAILY INSPECTION

The following items must be checked daily before the crane is put into use.

All safety devices
Rope for kinkes or frayed wires
Rope reeving
Hooks for 15% increase in throat opening
or bent (twisted) more than 10° out of
plane
All bolts are in place and tight
All hitch pins are in place

PERIODIC INSPECTION

A Monthly Inspection Report form is Included in this manual. It is provided to assist in compliance with OSHA and ANSI inspection standards. These publications should be checked periodically for updates.

MAINTENANCE PRECAUTIONS

Before any maintenance is performed, the vehicle should be out of the way and the crane secured

WARNING!

Never perform any maintenance while the crane has any type of load on it.

BOLTS Bolts may loosen over time due to vibration, therefore they should be checked periodically. If bolts need to be replaced, make sure they are replaced with bolts of equal or greater strength. Check the periodic maintenance schedule (Crane Specification Section) for bolt specification and torque.

NOTE!

Sheave bolts are not standard bolts. The shank and thread lengths of these bolts have been modified so that they do not pivot on the threads. Consult the parts section of this manual for part numbers of these bolts.



MONTHLY INSPECTION REPORT

Manual Boom Extension L-21

Crane Model No	Serial Number		
Are Boom Hitch Pins and Keepers in place?		Yes	No
Wire Line Hook with Safety Latch Working	?	Yes	No
Is Hook OK, (Not bent)?		Yes	No
Is Thimble on Wire Rope OK?		Yes	No
Does Traveling Block function correctly?		Yes	No
Is Wire Rope OK, not kinked or frayed?		Yes	No
Are all Boom Sections straight?		Yes	No
Are Sheave Bolts in place and tight?		Yes	No
Do all Sheaves rotate easily?		Yes	No
Are Mounting Bolts torqued correctly?		Yes	No
Are Boom Support Mounting Bolts secure?		Yes	No
Are Winch Mounting Bolts tight?		Yes	No
When stopped, does winch down drift less that	an 1.0 Inches?	Yes	No
Is Load Chart / Serial Plate in place and easily	y read?	Yes	No
Are functions on Pendant operating correctly	?	Yes	_ No
Is Outrigger or jackstand straight and function	ning?	Yes	No



Any items checked 'No' must be repaired before using this crane.

CRANE OPERATION

Holst Winch Only

PENDANT CONTROL

All user inputs are facilitated by the remote pendant control. The pendant control plug mates with the crane control socket and controls the hoist and other functions.

OPERATION

Raise the cover on the crane control socket and plug in the pendant. Ensure all pins are straight and free of dirt, moisture, and corrosion.

NOTE!

The control socket cover locks the plug in the socket and must be lifted to unplug the pendant.

CARE AND MAINTENANCE

The pendant control is designed to be as rugged and maintenance free as possible; however, care should be used in handling and storage as it is expensive to replace.

Follow these simple practices:

- Keep the pendant out of the weather
- When not in use, store the pendant inside the vehicle
- Do not wrap the wire too tightly as internal damage to the wires may result
- Do not place sharp or heavy objects on the cord

NOTE!

The pendant is designed to be weatherproof not waterproof. It may be used in inclement weather, but if left outside or where water can puddle, water can seep inside.

Maintenance should be limited to routine inspection of the plug, wire, and fasteners.

SAFETY SYSTEM

This crane does not have a load limiting or ATB safety system.

It is the operator's responsibility to understand and strictly adhere to the load limits of the crane. The operator must also know the weight of any objects to be lifted.

The operator must always be aware of the hook and travel block position and ensure that the crane is never two-blocked (allowing the travel block or hook to contact the crown plate.)

ELECTRICAL SYSTEM

This crane is powered by the vehicle electric system.

CIRCUIT BREAKER

A circuit breaker is supplied with the crane and should be installed as close to the battery as possible.

QUICK DISCONNECT

A quick disconnect is provided. This plug will disconnect the crane from the vehicle's batteries. It should be separated whenever the crane is not in use. Disconnecting this plug will prevent unauthorized use or inadvertent operation of the crane. To disconnect the plug, line up the arrows on the plug and pull it apart. Power should be disconnected whenever the crane is not in use to prevent unauthorized use or inadvertent operation of the crane. When the power cord is connected, the solenoids are connected directly to the battery and the crane can run if objects come in contact with the solenoid post and the power is not off.



PHONE: (713) 688-5533

MANUAL FUNCTIONS

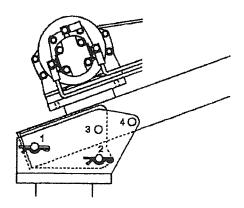
ELEVATION

The L-21 crane has three positions for the boom (Refer to Figure 1). With pins in holes 2 & 4 the boom is folded for travel only. Do not use the winch with the boom in this position. To raise the boom, operate the winch to slacken the line and then remove the block hook from the loop on the pedestal. Pull the pin from position 4 and raise the boom and insert the pin in position 1. The boom can now be telescoped out as needed.

To use the 45-degree position, remove the pin from hole 2, raise the boom and insert this pin in hole 3. The boom should be extended as needed before raising it to the 45-degree position.

To store the boom it must pivot on hole 2. Pin at position 4 to hold the boom in the vertical position. Place the hook in the pedestal loop and wind cable on winch to a light tension only. Remove the pendant and store it in the cab or a body compartment.

Figure 1. Boom Pin Locations



Care should be used when maneuvering loads into and out of the vehicle. Do not raise loads higher than is needed to get the load into or out of the vehicle.

EXTENSION

The boom may be manually extended as needed. The boom must be set to the desired length before lifting the load. A boom stop is provided to prevent the inner boom from being inadvertently removed from the outer boom.

CAUTION

All boom pins must be in place before lifting the load. The boom stop will not support a load. If proper boom pins are not installed the boom may collapse under load causing serious damage and possible injury or death.

ROTATION

The crane must be rotated manually. Tapered roller bearings are utilized to reduce the force required.

CAUTION!

The force required to rotate the crane will increase dramatically if the truck is not level or if the load causes the truck to lean. Outriggers or jackstands MUST be used.

CAUTION!

Extreme caution must be used when rotating heavy loads. Even with the use of outriggers or jackstands the truck may tilt as the crane is rotated. Even a small lean may cause the load to become uncontrollable.



BRAKE

The crane is equipped with a hand tightened band brake to help control the load when rotating.

CAUTION!

Even with the brake tightened the load may become uncontrollable if the vehicle becomes unlevel.

CAUTION!

The brake is not designed nor intended to hold the crane during transit. The crane must be held by a boom rest and/or teathered to the truck when not in use.





SECTION 3 CRANE SPECIFICATIONS

MODEL L-21W CRANES

MOMENT RATING

6 000 FT-LBS

MAX SINGLE LINE LOAD

2 000 LBS

LIFTING CAPACITIES AT VARIOUS LOAD RADII:

LOAD RADIUS	CAPACITY
(FT)	(LBS)
3	2,000
4	1,500
5	1,200
6	1,000
7	857

The winch is factory lubricated and should not require further lubrication in its lifetime. The winch brake cannot be adjusted. If brake drift is more than 1 inch under full load then it must be replaced.

ELECTRICAL

VOLTAGE

12 VDC NOMINAL

MOUNTING BOLTS

1/2-13 GRADE 8 TORQUE 110 FT-LBS DRY CHECK TORQUE EVERY 4 MONTHS





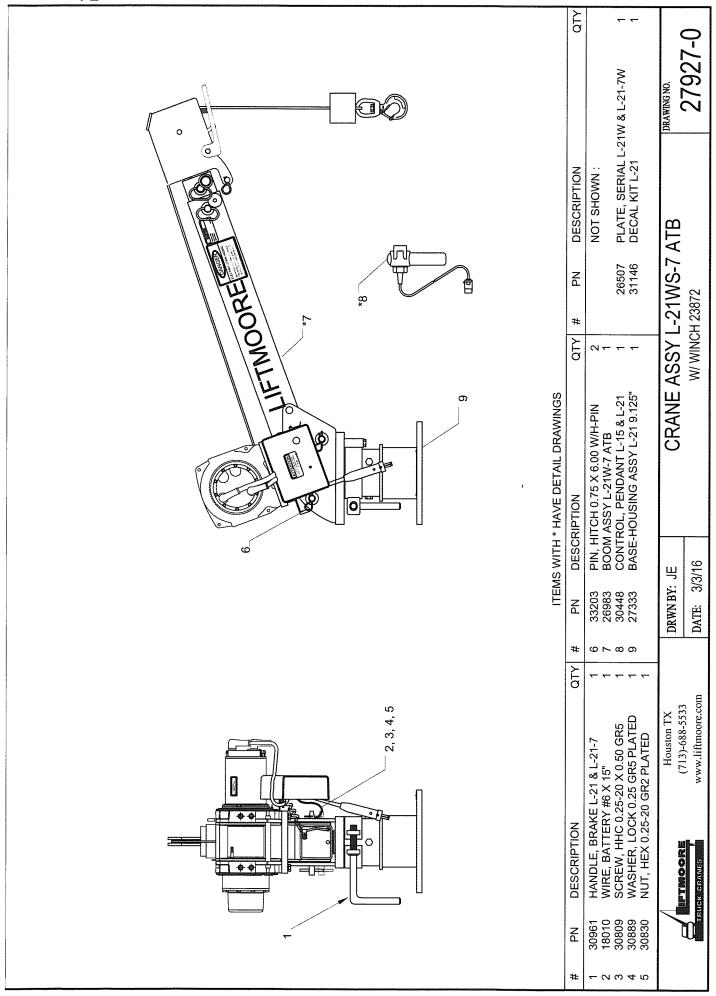
LIST FOR BOX, CRANE PARTS L-21WS-7 ATB 7ft

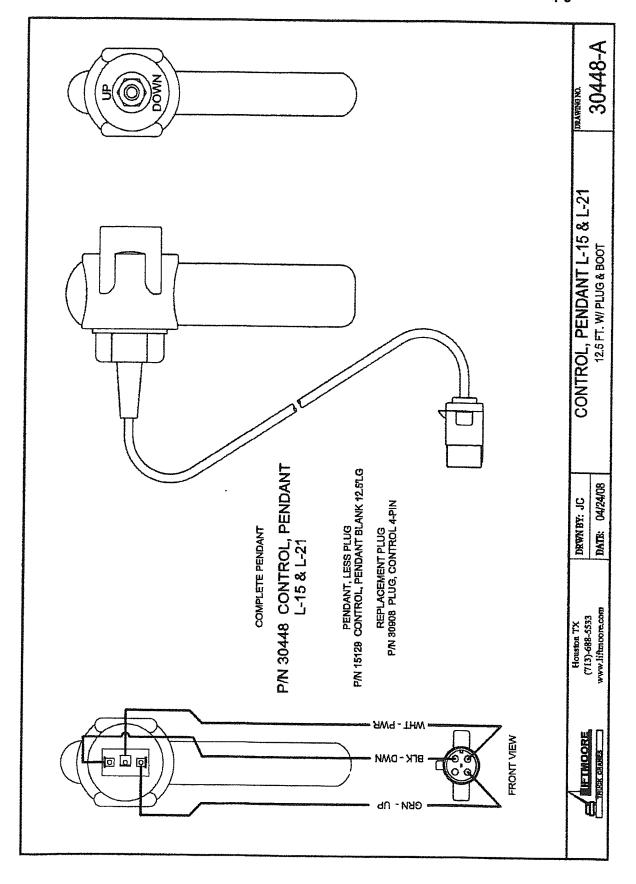
Items with * have detailed DWG's.

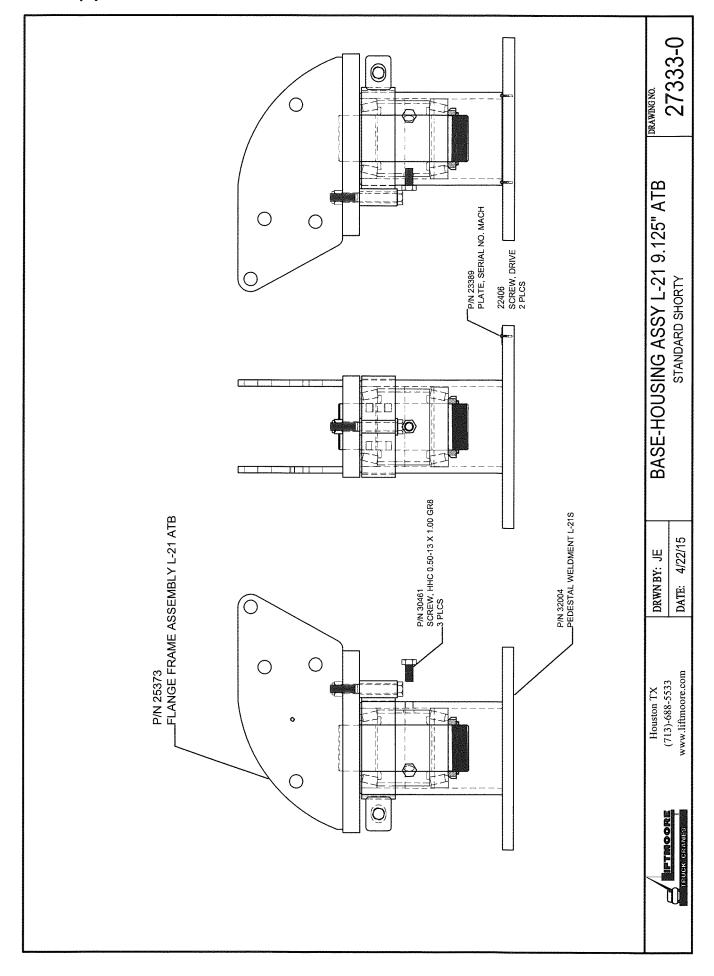
P/N 27928- BOX, CRANE PARTS L-21WS-7 ATB

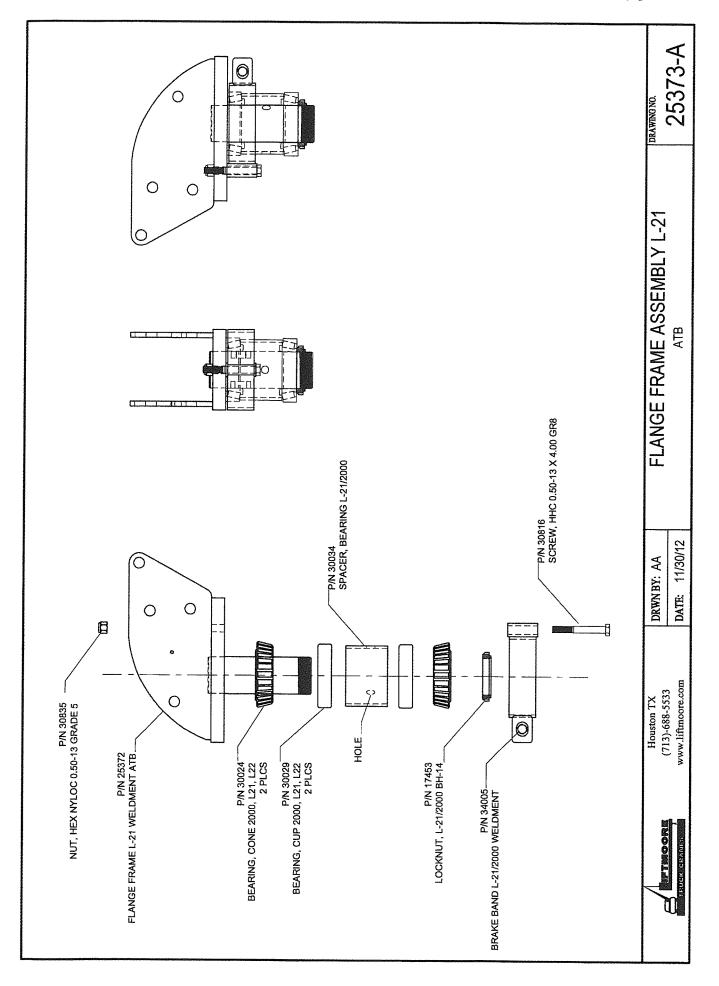
1)	P/N 27929 - MANUAL, CRANE L-21WS-7 ATB	1pc
2)	P/N 31022 - WIRE, 25' #4 AWG BATTERY	1pc
3)	P/N 30728 - WIRE, GROUND #4 X 3' LONG	. 1pc
4)	P/N 30760 - PIN, HITCH 0.75 X 4.50 W/H-PIN	. 2pcs
5)	P/N 30815 - SCREW, HHC 0.50-13 X 2.50 GR8	
6)	P/N 30474 - WASHER, LOCK 0.50 GR5 PLATED	
7)	P/N 31957 - NUT, HEX 0.50-13 GR8 PLATED	
8)	P/N 16878 - BREAKER, CIRCUIT 150 AMP	
9)	P/N 16922 - TERMINAL, LUG #4 GA 0.25 DIA	
10)	*P/N 30448 - CONTROL, PENDANT L-15 & L-21	
11)	P/N 22797 - INSTALLATION INTS. L-21/21W/15	

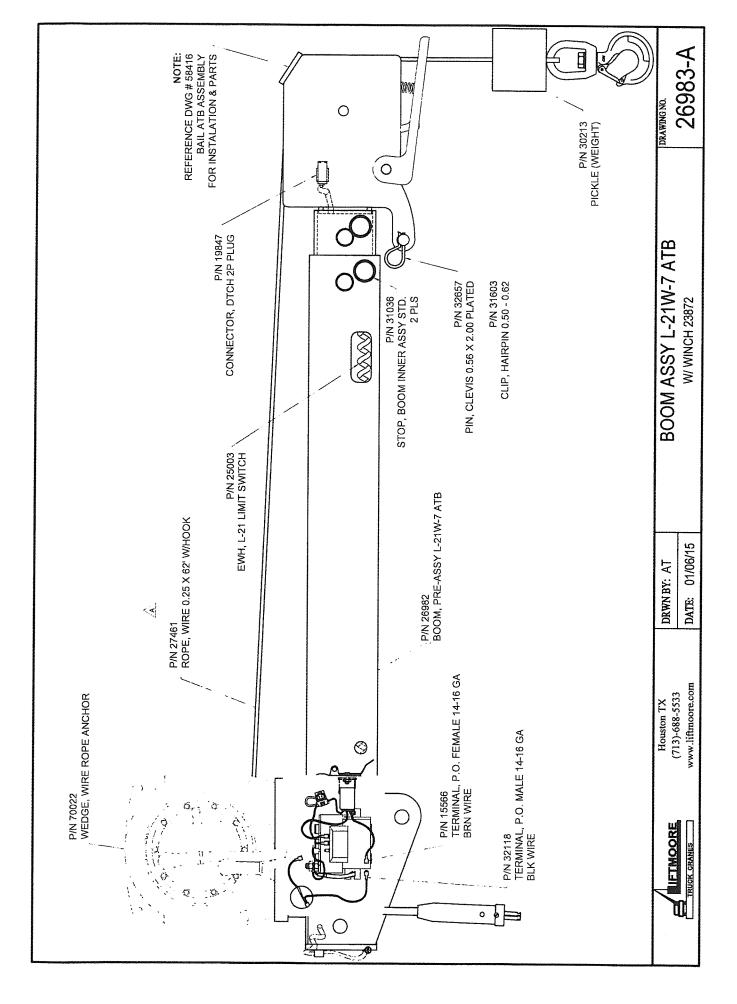


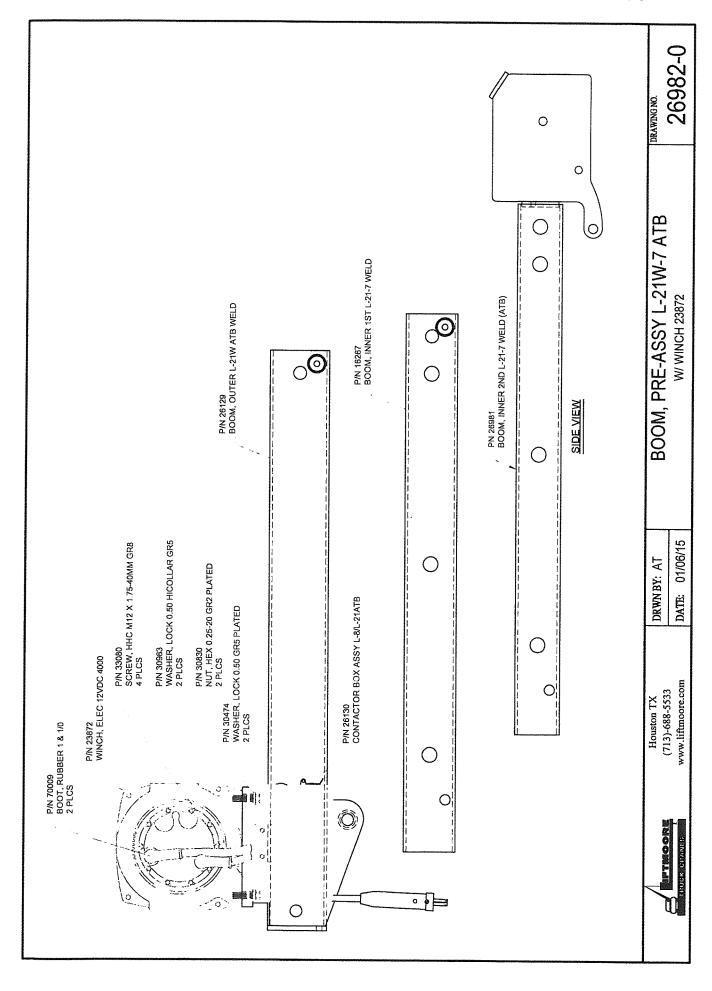




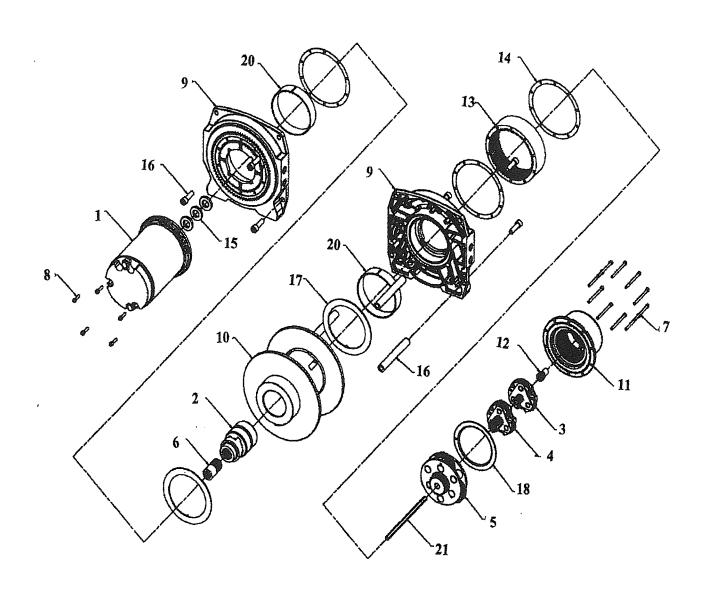








WINCH DC2000 12VDC P/N 23872

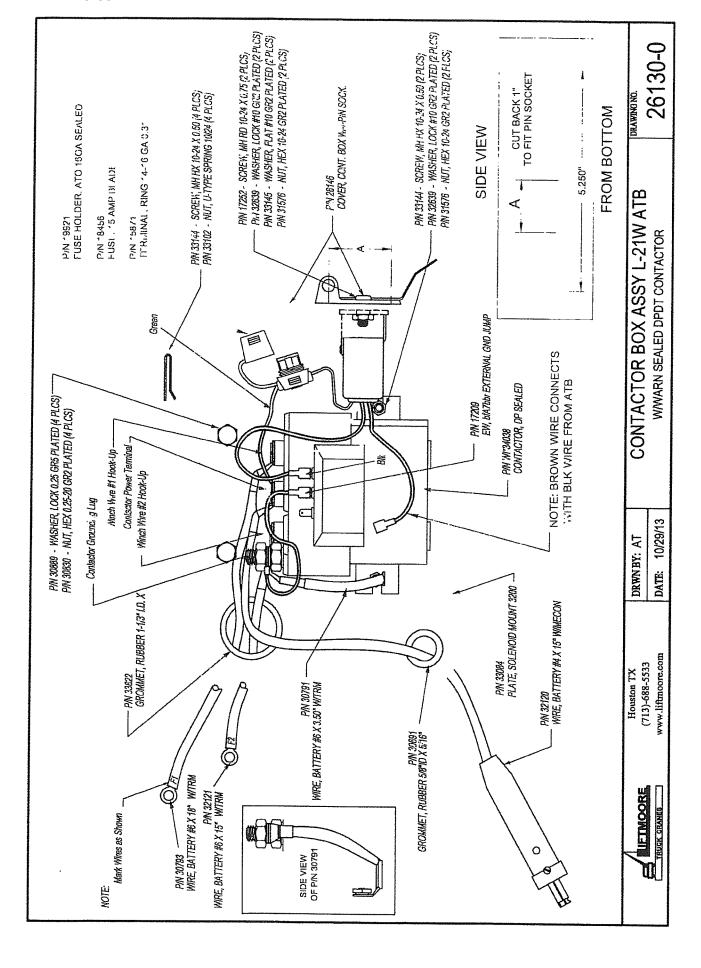


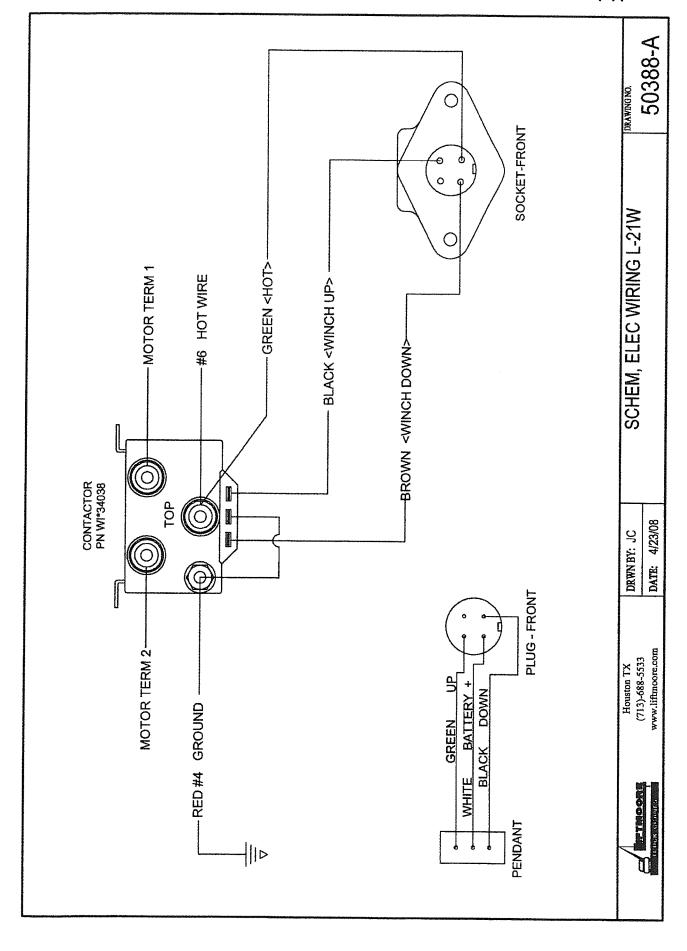


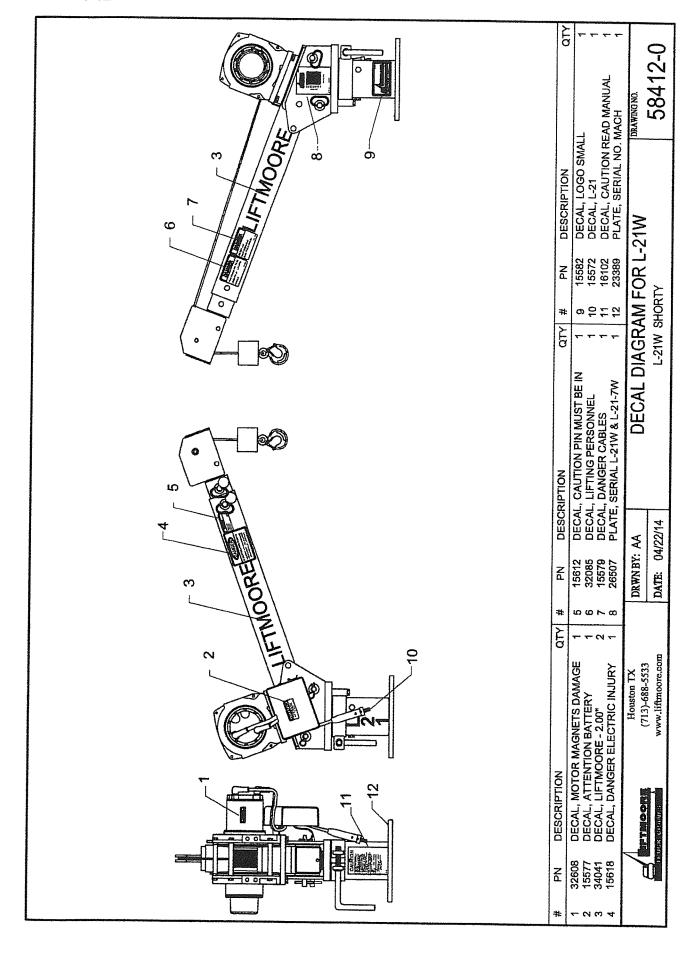
SERVICE PARTS LIST: DC2000LF HOIST-12V P/N 23872

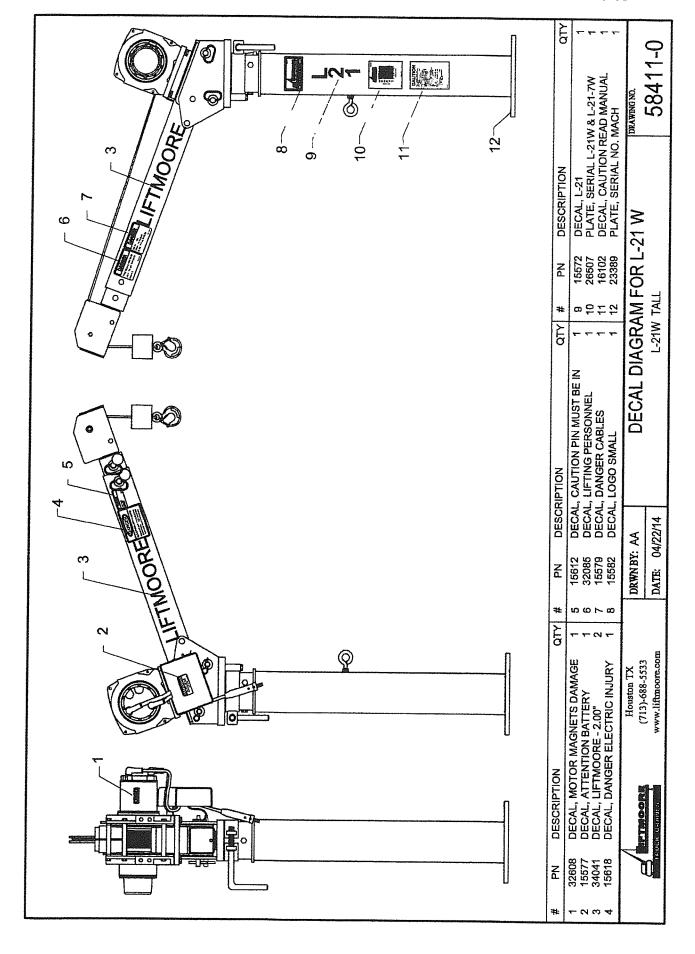
ITEM REFERENCE		ITEM / KIT No.
1	MOTOR SPLINED 12V DC	WI*84211
2	BRAKE ASSSEMBLY DC2000	WI*63550
3	CARRIER ASSY, STAGE 1	WI*28430
4	CARRIER ASSY, STAGE 2	WI*28433
5	CARRIER ASSY, STAGE 3	WI*28115
6	COUPLER, MOTOR/BRAKE	WI*32149
7	CPSCR, 10-24 X 2-1/4-HEX SOCKET HEAD-PI	WI*13850
8	CPSCR, SOC, 10-24 X ¾, GR9 (KB)	WI*5553
9	(MTO) S/P DRUM SUPPORT, GEAR END	WI*85575
10	DRUM, (KB) 2000-MF, 4.25 DIA	WI*31618
11	SVC KIT END HOUSING SUBASSY, CLUTCH PLUG	WI*85583
12	GEAR, SUN, 12 TOOTH, STAGE 1	WI*13874
13	RING GEAR, ARG, 75 TOOTH	WI*25308
14	HOUSING, GASKET	WI*13848
15	SPACER, MOTOR	WI*15271
16	SVC KIT TIE ROD, ALUMN, .625 X 4.92	WI*85579
17	WASHER, TRUST, NYLATRON, CIM	WI*30277
18	WASHER, TRUST, NYLON, MIDRANGE	WI*13826
19	PARTS PACK, DC2000 HOIST	WI*60049
20	BUSHING DRUM NYLATRON	WI*30274
21	SHAFT-DRIVE-HEX 5/16 X 6.85	WI*84346

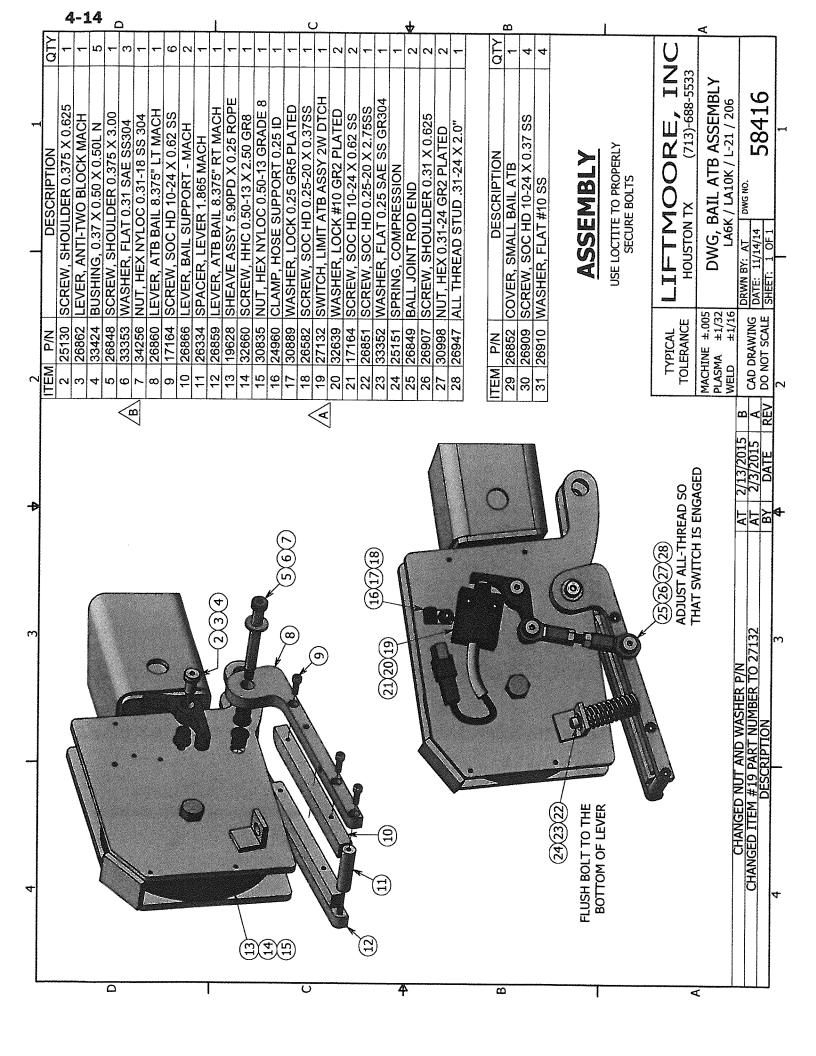












LIFTMOORE LIMITED WARRANTY

Parts and Structural

Liftmoore, Inc. warrants each LIFTMOORE crane to be free from defects in materials and workmanship for twelve (12) months from the date of delivery to the original customer. Under the terms of this warranty the crane structural components manufactured by LIFTMOORE, Inc. are warranted for thirty-six (36) months from the date of delivery to the original customer. LIFTMOORE, Inc. will repair or replace, as its sole discretion, any equipment or part that is returned f.o.b. to LIFTMOORE, Inc.'s plant at 7810 Pinemont Drive, Houston, Texas 77040, or to one of its authorized dealers, and is found by LIFTMOORE, Inc. or its authorized dealer to have been defective at the time of original delivery.

The foregoing warranty is the exclusive warranty made by LIFTMOORE, Inc. with respect to its cranes and is in lieu of all other warranties. ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF ANY CRANE FOR A PARTICULAR PURPOSE OR OPERATION, ARE HERBY EXPRESSLY DISCLAIMED.

The foregoing warranty applies only to LIFTMOORE cranes under normal use and service and does not apply in the event of damage caused by repair or alteration or damage during shipment, accident, negligence, overloading, or misuse, including operator's failure to follow any of the instructions issued with the crane.

This warranty is limited to the original purchaser and is not assignable. In order to submit a claim, the original purchaser must provide a copy of the original invoice for the crane in question within twelve (12) months following the delivery date and within 30 days from the date of repair.

The warranty applies only when the LIFTMOORE crane is used for commercial purposes and does not cover any purchase for use for personal, family or household purposes.

LIMITATION OF LIABILITY: LIFTMOORE, Inc.'s liability for any losses or damages resulting from any cause whatsoever, including LIFTMOORE, Inc.'s NEGLIGENCE or from a defective crane irrespective of whether such defects are discoverable or latent, shall in no event exceed the purchase price of the crane to which losses or damages are claimed, or at the election of LIFTMOORE, Inc., the repair or replacement of the defective crane.

In no event shall LIFTMOORE, Inc. be liable for any special, incidental, or consequential damages, including commercial losses or costs of any kind sustained by purchaser or any other person or for any damages for which purchaser may be liable to other persons by reason of any defect in any LIFTMOORE crane or any part thereof.

LIFTMOORE, Inc. reserves the right to make changes in design or construction of its cranes at any time without obligating itself to make such changes on cranes previously manufactured.

No agent, employee, or representative of LIFTMOORE, Inc. has authority to amend or modify the foregoing warranty or to bind LIFTMOORE, Inc. by any other warranty, guaranty, or assumption of liability.

In the event any provision of this warranty is for any reason held ineffective, the remaining provisions shall remain in full force and effect.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other legal rights that vary from state to state.

