

Technical Users' Manual

Installation and Operating Instructions



M678 **BATTERY OPERATED** **HYDRAULIC CADAVER LIFT**

CAUTION

- Inspect unit and all components for any loosening that may have occurred during shipping •

ATTENTION

Review entire manual before starting assembly

ATTENTION

All images and Drawing in this manual may not represent your model. Refer to your particular project for exact specifications

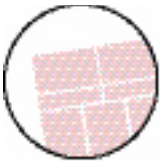
CAUTION

- DO NOT USE CLEANERS CONTAINING CHLORINE WHEN CLEANING STAINLESS STEEL•

WARNING

Biohazard Label is place on the equipment signifying the potentially infectiousness due to the samples or reagents





It is important that the information provided in this manual is observed. These instructions should be read carefully and observed fully before installation and initial operation.

WARNING

It is crucial that any work performed on Mortech Manufacturing Inc. manufactured items are carried out exclusively by skilled professionals who have the respective training. Improper use, maintenance, parts and service, or modification to the equipment may cause injury and/or damage. Use and maintain the equipment only for the purpose described in this manual. Use only Mortech Manufacturing Inc. prescribed approved parts and service. Use the equipment only as designed by Mortech Manufacturing Inc.

BLOODBORNE DISEASE NOTICE

To reduce the risk of exposure to bloodborne diseases such as HIV-1 and hepatitis when using the equipment, follow the disinfecting and cleaning instructions in this manual.

RECOMMENDED OPERATING SKILLS AND TRAINING

- SKILLS

Operators using the equipment need:

- ☐ A working knowledge of necessary procedures.
- ☐ The ability to carry out necessary service procedures.
- ☐ A complete understanding of the procedures described in this manual.

- TRAINING

- ☐ Read the this manual as prescribed
- ☐ Be trained on the use of the equipment.
- ☐ Practice with the equipment before using it in regular service.
- ☐ Be tested on their understanding of the equipment operation.
- ☐ Record their training.

BEFORE USING THE EQUIPMENT

Personnel working with this equipment needs to read this manual. Assemble of the unit following set instructions, and perform any pre-service checks to confirm the units operates properly.

INSPECTING THE UNIT BEFORE USE

Please take time to inspect all shipment prior to signing delivery ticket. If concealed damage is discovered, save the carton and immediately contact carrier agent to initiate claim of damage.

! BE SURE TO CHECK

- Are all components present?
- Do the moving parts operate smoothly?
- Is unit draining properly?
- Are all nuts, bolts, and pins secured in place?
If unit has an issue contact Mortech Manufacturing Inc.

INSTRUCTION FOR HANDLING

Adhere to state and/or local certification and regulations for operation of forklift and/or pallet jack. Cargo is extremely heavy, be sure to have the necessary manpower as well as equipment to successfully unload shipment from transport. We recommend a forklift and/or pallet jack with the capacity to lift up to 2000 lbs. to remove cargo from transport.

The forklift can be used to unload receiving products safely by placing the load on the floor, maneuvering the forklift into position, tilting the mast forward to vertical position so the load will be level, lowering the load, and smoothly backing away without dragging. Once cargo is unloaded, positioning equipment for installation will once again require a forklift. Read all manual and note on installation of the unit before attempting installing.

The pallet jack can be used (with a loading dock and maneuverability on and off the transport vehicle) to unload receiving products safely. Maneuvering the pallet jack into position (in the appropriate position within the pallet), lifting the pallet then driving the pallet jack off the transport and safely into the place of installation.

Range of Environmental Condition

Mortech Manufacturing, Inc. equipment shall be placed in a controlled environment (housing or housed unit) hindering the weathering effects on the installed units. The equipment will have minimal corrosive and eroding factors that can break down the stability and operation of Mortech Manufacturing Inc. equipment. The impact on the equipment by the operator utilizing water or corrosives in the medical procedures can be controlled and responsibility for the cleaning and maintenance placed upon that person. The effects of anthropogenic (man-made) gasses on the environment, such as carbon dioxide (CO₂) that will be omitted from the unit should be minimal.

Due to continuous innovation and product development this installation guide is subject to change without notice.

Please save these instructions for later use.

POWER LIFT STACKER

Operating Instructions and Parts Manual

ATTENTION: To Ensure proper use of your Power Lift Stacker, read these instructions thoroughly before using. it is important that all personnel, involved with the installation, maintenance or operation of the stacker, read the manual.

SPECIFICATIONS

See nameplate on unit for capacity, load center, model number and truck serial number.

This product is manufactured by:

WESCO Industrial Products, Inc.

P.O. Box 47

Lansdale, PA 19446

Tel: (215) 699-7031

FAX: (215) 699-3868

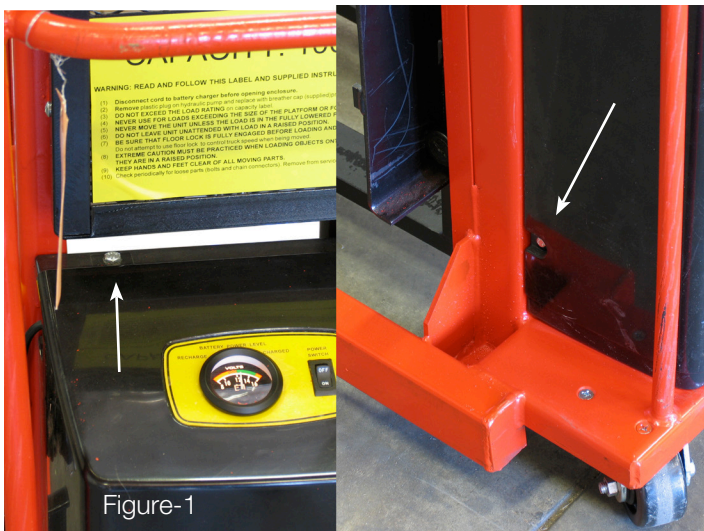
Contact the factory if you have start up problems after reading these instructions, for parts information and parts ordering.

UNPACKING

When unpacking your unit, check carefully for shipping damage. If damage has occurred, file a claim with the delivery carrier within 24 hours and notify the dealer for whom the unit was purchased.

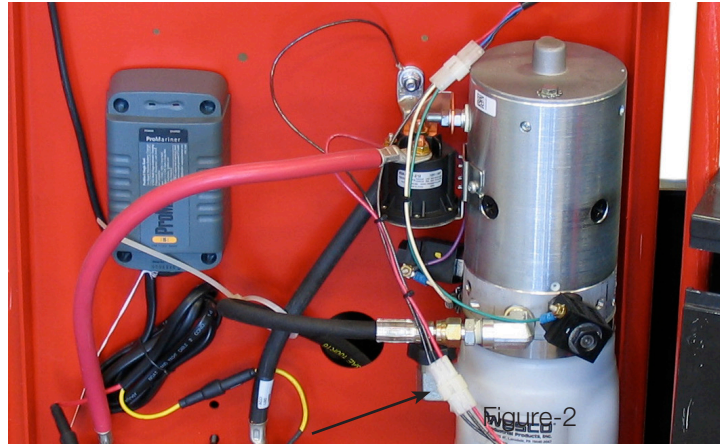
START-UP

1. Remove the plastic cover by removing the four hex bolts, two on the top and one on each side (Fig-1).



Then disconnect the switch and gage at the plastic connector (Fig-2)

2. check for signs of damage, especially to the back cabinet that houses the battery, electrical/hydraulic power pack.
3. Remove plastic pipe plug from oil reservoir, screw in breather cap.
4. Connect negative (black) wire to negative battery terminal.
5. Check all electrical connections for tightness.
6. Run unit up and down and check for any hydraulic oil leaks.
7. Do not use the lift if there appears to be any damage.



8. Reinstall plastic cover.

GENERAL SAFETY INFORMATION

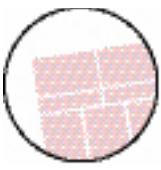
WARNING Power Lift Stackers are intended for a wide range of uses. To ensure proper use, the following instructions must be adhered to:

1. Load rating- The capacity of your unit is shown on a metal tag attached to the truck. It is based on the load center also shown on the tag.
2. Do not use your unit for loads exceeding the size of the platform or forks.
3. Never move unit unless the load is in the fully lowered position.
4. Power lift Stackers are intended for movement of loads and lifting of loads to work position, not for moving of loads in a raised position.
5. The floor lock is designed for minimizing movement of unit during loading and unloading items from the unit themselves. It is not to be used to control truck speed when being moved. Be sure that lock is fully engaged before loading and unloading.
6. Do not perform any repair work on lift if there is a load on the forks or platform is raised.
7. All personnel must stand clear of the lift while lifting or lowering .
8. Do not stand, sit or climb on the lift or use lift to lift personnel.
9. Do not put hands or feet or stand underneath the forks or platform when raised.
10. Do not use lift on soft, uneven or unstable surfaces.
11. Custom alterations of unit for specific functions not made at the factory void all warranties without exceptions. User made alteration may result in unsafe conditions during use of unit.

OPERATIONS

(A) Operating Instructions





1. Place power switch to ON position.
2. To raise lift, push UP button and hand control pendant.
3. To lower lift, push DOWN button.
4. Whenever the control button is released, the lift will stop.
5. Authorized operation should read and understand all instructions, precautions and warnings. Improper use of this lift truck could result in injury and/or damage to load and equipment.

-Use lift on hard level surfaces only.

-make sure load is evenly distributed, not loose or unstable, and as far back on the platform or forks as possible.

DO NOT PICK UP LOADS ON TIPS OF FORKS OR EDGE OF PLATFORM.

-For fork models, adjust forks to the maximum practical width. Use two forks not one to pick up loads.

-Make sure travel, work area and overhead are clear of obstructions before lifting or moving loads.

-Make sure floor lock pad is in firm contact with floor before lifting or lowering load or using as a workstation.

6. Turn unit OFF when not in use, to prolong battery life.

(B) Daily Maintenance Checks:

WARNING- Battery should be recharged on a regular basis. Repeated total discharge of battery can result in battery failure.

1. Battery

Check charge level.

Check for corroded or loose terminals.

Visually inspect for any cracks or damage to battery casing.

Check for loose battery tie downs.

2. Charger

Inspect wire connections.

check power cords for damage

3. Hydraulic system

Inspect pump and cylinder for oil leaks.

Check fluid level. Reservoir should be a minimum of one half full with a good grade of hydraulic oil.

DO NOT USE HYDRAULIC BRAKE FLUID.

Check hydraulic fittings and hoses.

Check piston rod for nicks/damage.

4. Frame assembly

Check floor lock.

Check safety screen and guard.

Check chain/roller assembly connections.

Check for any worn or damaged parts.

(C) Monthly Maintenance Checks

1. Battery

Clean battery compartment area.

Clean terminals.

2. Hydraulic system

Clean and inspect hydraulic cylinder.

Lubricate chain with a rust inhibitive chain lube.

Check chain tension with lift at its lowest height, chain could be tight enough so that it does not come off roller assembly.

3. Frame assembly

Clean and lubricate all roller bearings and cam followers.

Clean and inspect all welds.

Check wheels for wear and damage.

Inspect nameplate for legibility.

(D) Battery charging

1. Plug charging into a nominal 120 volt ground circuit outlet, charging will begin.

2. Battery will be fully charged when voltmeter indicates 12.0-13.4 volts, less than 12.0 volts battery is not fully charged.

3. When battery is fully charged unplug charger cord from electrical outlet.

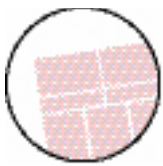
DO NOT ATTEMPT TO MOVE STACKER WHEN CHARGING BATTERY!

4. The battery charger cord can be left plugged in for an indefinite period of time. The charger may be used any time to extend the operating time of the battery. You may have to wait until the battery is run down.

5. The voltmeter will indicate battery condition even when the charger cord is not plugged in.

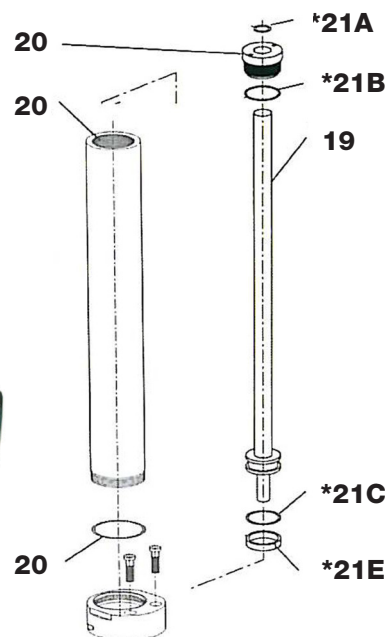
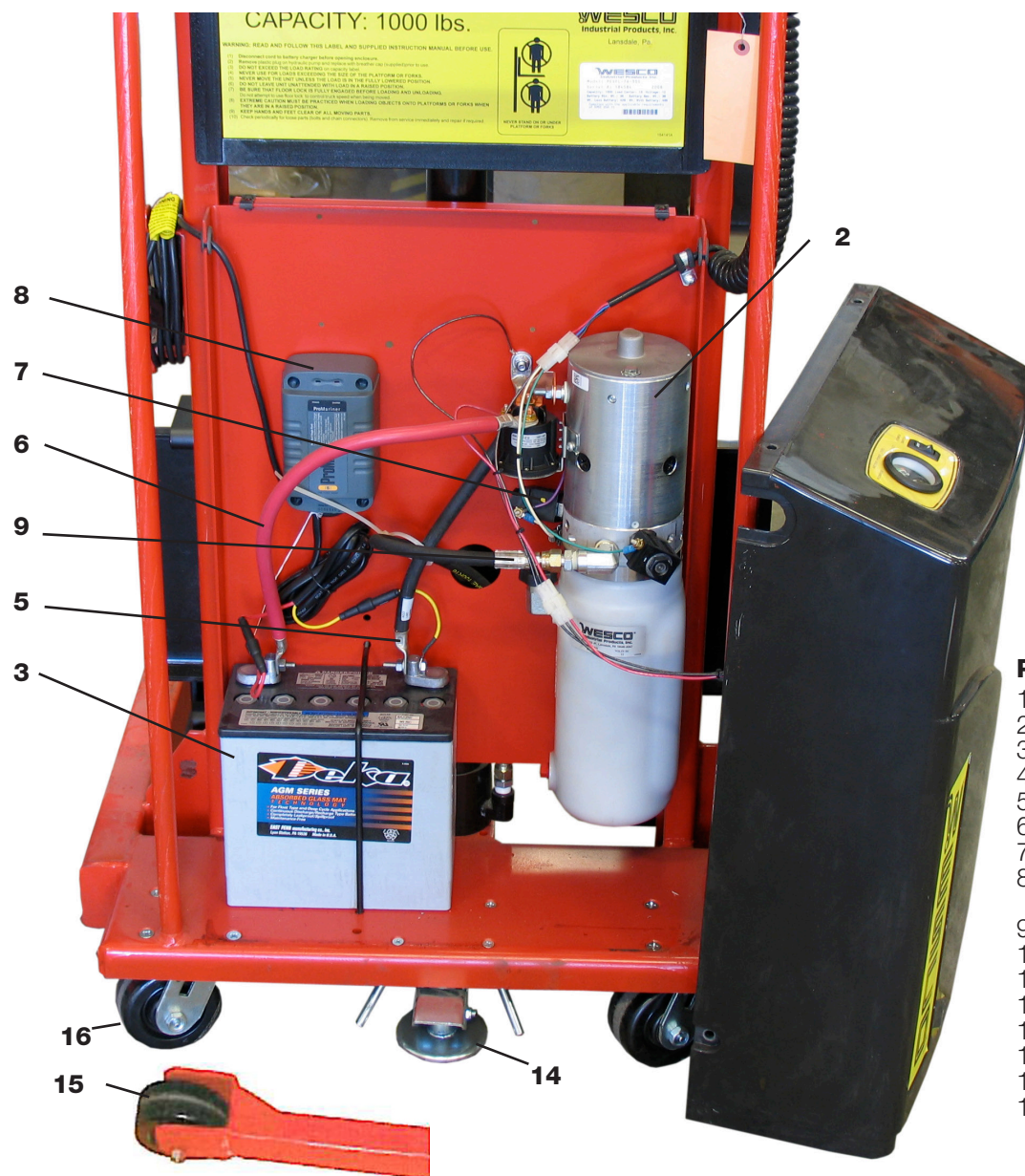
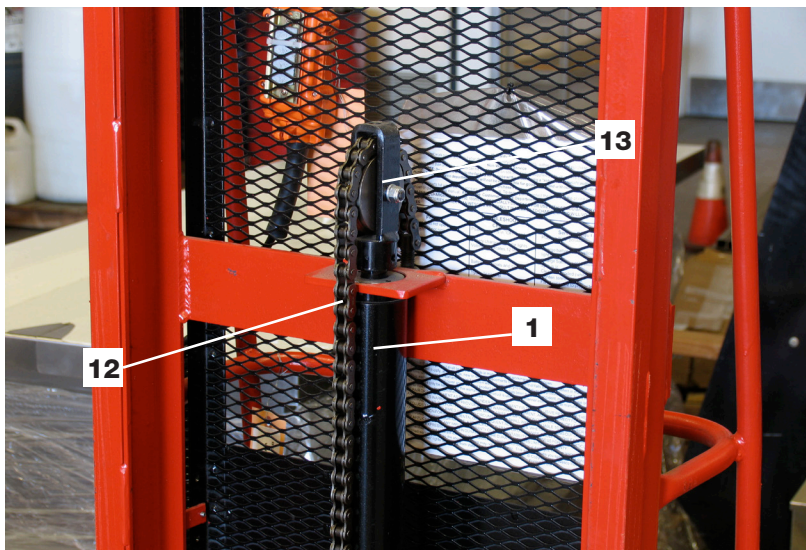
POWER-LIFT STACKER PARTS LIST					
ITEM	QTY	DESCRIPTION	56"/60" LIFT	64"/68" LIFT	76"/80" LIFT
1	1	HYDRAULIC CYLINDER	051166	051164	051163
2	2	POWER UNIT	109101	109101	109101
3	1	BATTERY	109102	109102	109102
4	1	VOLTMETER	109104	109104	109104
5	1	BATTERY CABLE (NEG.)	052782	052782	052782
6	1	BATTERY CABLE (POS.)	052770	052770	052770
7	1	SOLENOID	109117	109117	109117
8	1	BATTERY CHARGER (110 V)	109150	109150	109150
	1	BATTERY CHARGER (220 V)	109153	109153	109153
9	1	HYDRAULIC HOSE	125824	125824	125824
10	1	ASS'Y: REMOTE CONTROL	052726	052726	052726
11	1	SWITCH	109325	109325	109325
12	1	LIFT CHAIN ASSEMBLY	050771	050771	050771
13	1	ROLLER CARRIER ASS'Y	260143	260143	260143
14	1	FLOOR LOCK	150001	150001	150001
15	2	WHEEL	053769	053769	053769
16	2	CASTER	054265	054265	054265
HYDRAULIC CYLINDER PARTS LIST					
18	1	CYLINDER	051074	051073	051072
19	1	PISTON	051196	051196	051196
20	1	CYLINDER CAP	051198	051198	051198
21	1	SEAL KIT	220170	220170	220170
*21A		"O" RING	-----	-----	-----
*21B		"O" RING	-----	-----	-----
*21C		"O" RING	-----	-----	-----
*21D		"O" RING	-----	-----	-----
*21E		PISTON GUIDE RING	-----	-----	-----
PARTS SHOWN WITH (*), COMPROMISE "SEAL KIT" P/N 220170					





Parts listing

M678 Battery Operated Hydraulic Cadaver Lift



PARTS LISTING

1. HYDRAULIC CYLINDER
2. POWER UNIT
3. BATTERY
4. VOLTMETER
5. BATTERY CABLE (NEG.)
6. BATTERY CABLE (POS.)
7. SOLENOID
8. BATTERY CHARGER (110 V)
9. BATTERY CHARGER (220 V)
10. ASS'Y: REMOTE CONTROL
11. SWITCH
12. LIFT CHAIN ASSEMBLY
13. ROLLER CARRIER ASS'Y
14. FLOOR LOCK
15. WHEEL
16. CASTER

M678 Fork Inversion

FORKS IN
LOWER POSITION

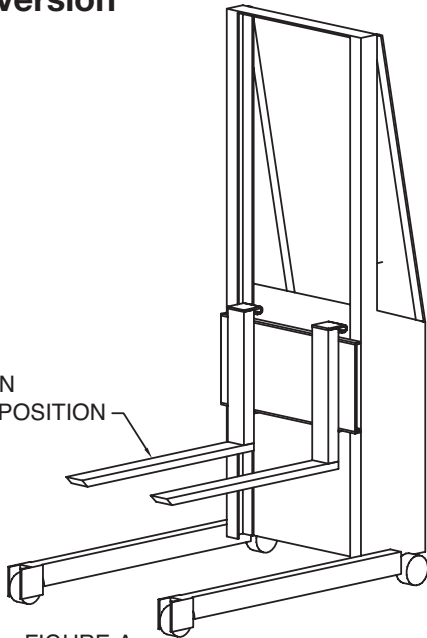


FIGURE-A

LIFT

UNHOOK

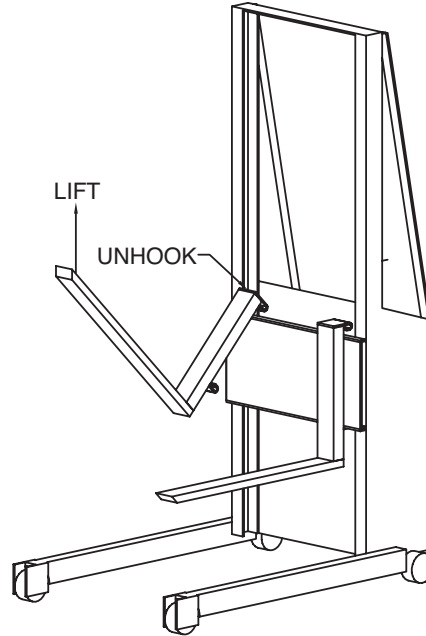


FIGURE-B

LOWER

REATTACH TOP FIRST

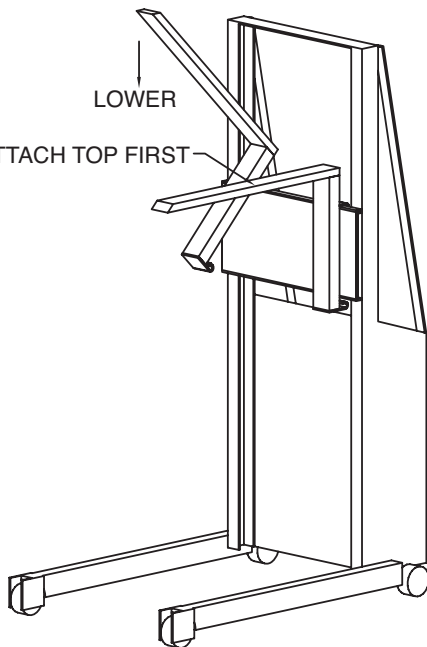


FIGURE-C

FORKS IN
UPPER POSITION

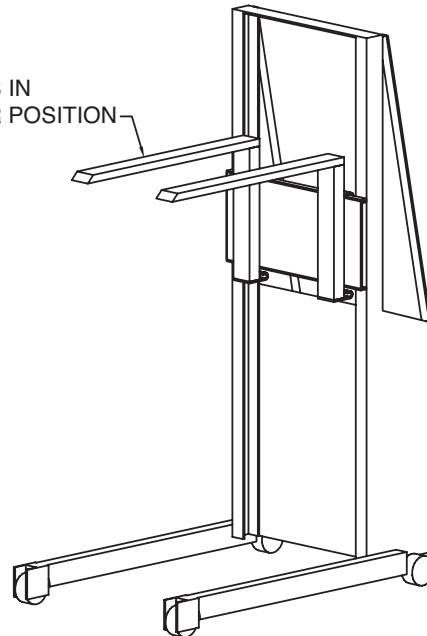


FIGURE-D

FORK INVERSION INSTRUCTIONS

THE FORK ASSEMBLY HAS BEEN DESIGNED TO FIT THE LIFT TWO WAYS.

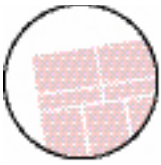
STEP 1. FIGURE-A SHOWS THE FORK ASSEMBLY INSTALLED TO ACCOMMODATE THE LOWEST TIER ON A RACK.

STEP-2. LIFT THE FORK ASSEMBLY, ONE AT A TIME, OFF THE RACK AS SHOWN IN FIGURE-B.

STEP-3. INVERT THE FORK AND REATTACH, TOP HOOK FIRST AS SHOWN IN FIGURE-C.

FIGURE-D NOW SHOWS THE FORK ASSEMBLY INVERTED TO ACCOMMODATE THE HIGHEST TIER ON THE RACK. DETERMINE YOUR IMMEDIATE NEED AND INSTALL THE FORKS ACCORDINGLY.





POWER DRIVE



EMERGENCY STOP





ON/OFF SWITCH

The toggle switch shown left powers on the drive function



STAND-BY MODE

The first position is stand-by. Power is on but not in motion.



ACTIVE POWER DRIVE MODE

The second position is active. Forward motion, reverse motion and steering can be done in this position. RED LIGHT INDICATOR shows its active

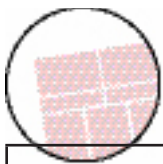


DRIVE TRIGGERS

SLOWLY PUSH FORWARD on the trigger to propel unit forward.
SLOWLY PULL BACK the triggers to reverse the motion.

Use handle bars to steer left and right





TROUBLESHOOTING		
PROBLEM	CHECK	SERVICE REQUIRED
Stacker does not operate. (Pump does not run)	Power switch is in OFF position.	Place in the ON position.
	Battery charger indicator lights. voltmeter indicates 12 volts	Charge battery until yellow or green light is lit.
	Batter terminals and cable	Clean if corroded (white powder). Tighten terminal bolts.
	Hydraulic oil level	Fill oil reservoir to proper level.
Stacker does not lift to full height. (Pump runs)	Oil leaks	Tighten fittings. Replace hydraulic hose if required.
Stacker creeps down under load.	dirt in holding valve open	raise stacker to full height then lower in stages, 6" to 12" at a time to its lowest point. Repeat this cycle several times until dirt is cleared and unit operates properly. Replace oil with clean hydraulic oil if contaminated.
	Oil leaks	Tighten fittings. Replace hydraulic hoses if required. Replace "O" rings.
Pump turns continuously.	Malfunction solenoid	Replace pump motor solenoid.

WARRANTY REPAIRS

If unit does not work properly, contact your dealer or the factory (215) 699-7031), within one year of purchased date.

NON-WARRANTY SERVICE

For units older than one year, repairs can be made easily on the site with factory supplied parts, or repair can be made at the factory. **NOTE-DO NOT SEND UNITS TO THE FACTORY FOR SERVICE WITHOUT OBTAINING A "RETURN MATERIAL AUTHORIZATION" (RMA) NUMBER FROM THE SERVICE DEPARTMENT. WE WILL NOT BE RESPONSIBLE FOR GOODS RETURNED WITHOUT PROPER AUTHORIZATION.**

TO PURCHASE PARTS

A complete parts list with drawings appears in this manual. TO ORDER PARTS contact the factory at the phone or the fax numbers shown on page 1 of this manual.

WARNING-CHARGER IS ESPECIALLY DESIGNED FOR USE WITH WESCO BATTERY. USE OF BATTERY OTHER THAN WESCO'S MAY RESULT IN DAMAGE TO CHARGER, AND WILL VOID ALL WARRANTIES.

LIMITED WARRANTY

wesco Industrial Products, Inc. (WESCO) warrants to the purchaser of this product for the period of one year from the date of purchase that this product shall be free of defect in material and/or workmanship, as follows:

1. WESCO will supply, at no charge, new or rebuilt replacements for any part that falls through a defect in material and/or workmanship during the warranty period. To obtain warranty service, you must return the product prepaid, to the WESCO factory.

2. This warranty does not cover any products or product

parts which has been subject to accident, misuse, abuse or negligence. WESCO shall not be liable under this warranty if the product is used in the manner intended by the manufacturers a specified in the written instructions furnished with this product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER.

ANY EXPRESS WARRANTY NOT PROVIDED IN THIS WARRANTY DOCUMENT, AND ANY REMEDY FOR BREACH OF CONTRACT THAT, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HERBY EXCLUDED AND DISCLAIMED. UNDER NO CIRCUMSTANCES SHALL WESCO BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF THE BREACH OF WARRANTY, EXPRESS OR IMPLIED, A BREACH OF CONTRACT OR OTHERWISE EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY.

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WARRANTY

Mortech Manufacturing, Inc. warrants all fabrications to be free of defects due to its own workmanship and materials.

CONTINENTAL UNITED STATES:

Repair and/or replacement of parts furnished that may develop such defects, will be warranted for a period of one year parts replacement and 90 days labor from the date of shipment. Items not manufactured by Mortech Manufacturing will receive the manufacturer's warranty.

INTERNATIONAL:

(For validation of warranty, installation location (physical address) required) Replacement of parts furnished that may develop such defects, will be warranted for a period of (18) months from the date of shipment. Shipping and Labor is not warranted. Items not manufactured by Mortech Manufacturing, Inc. will receive the manufacturer's warranty.

PARTS AND SERVICE

Customer relations and product support are important aspects of Mortech Manufacturing, Inc.

For assistance with this or any of our fine products please contact us below:

Mortech Manufacturing, Inc.
411 North Aerojet Avenue
Azusa, CA 91702
TEL (626) 334-1471
FAX (626) 334-1704
www.mortechmfg.com
info@mortechmfg.com

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CAUTION

- Inspect unit and all components for any loosening that may have occurred during shipping •

ATTENTION

All images and Drawing in this manual may not represent your model. Refer to your particular project for exact specifications

DISCLAIMER

This manual contains general instructions for the use, operation, and care of this product. The instructions are not all inclusive. Safe and proper use of this product is solely at the discretion of the user. Safety information is included as a service to the user. All other safety measures taken by the user should be within and under consideration of applicable regulations. It is recommended that training on the proper use of this product be provided before using this product in and actual situation.

Retain this manual for future reference. Include it with the product in the event of transfer to new users. Additional free copies are available upon request from Customer Relations.

Mortech Manufacturing, Inc. has made every effort to ensure that this Manual is accurate; Mortech Manufacturing, Inc. abdicate liability for any inaccuracies or omissions that may have occurred.

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