



OPERATING MANUAL

ALUMINUM LT-SERIES



LT-1

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WARNING

Failure to obey the Instructions and Safety rules in this manual could result in death or serious injury.

Read the Operating Manual completely. Only competent, trained operators may use this equipment.

Training is essential to understanding all the features and capabilities of your PowerMate®, and ensure good safe work practices.

**Training courses are available through
L P INTERNATIONAL INC., please call
1-800-697-6283**

POWERMATE®

MODEL LT-SERIES

The **PowerMate®** Model LT-1 is a motorized electric lifting table used for the safe movement of heavy and awkward loads. It can move loads on and off of vehicles or any raised surface and across flat surfaces.

Standard Equipment

1 Strapbar with 14' Strap
Battery Charger
Casters with Wheel Lock

⚠ WARNING The use of this equipment with any options other than those specified in this manual may create a hazard.

DELIVERY AND WARRANTY REGISTRATION

The **PowerMate®** Model LT-1 has been tested and inspected by both the manufacturer and the distributor to ensure the quality of manufacture and operation. The equipment is delivered by the distributor, fully assembled and ready for use. When your **PowerMate®** Lifting Table is delivered, unpack and inspect the unit for damage or shortage of parts. If required, make note of any deficiencies on the Delivery Acceptance Form. Registering your unit for the Warranty can be done online at www.powermate.info. Click on Service, fill in the required fields under Warranty and click Send Now.

Manufactured By:

L P INTERNATIONAL INC.
P.O. Box 696, 151 Savannah Oaks Drive
Brantford, Ontario, Canada N3T 5P9
TEL: (519) 759-3292 FAX: (519) 759-3298
1-800-697-6283

HAZARD GRAPHICAL SYMBOLS

The **PowerMate**® products use graphical symbols, safety colours, and signal words throughout the Operators Manual and on the units themselves. Operators using the **PowerMate**® must familiarize themselves with these symbols.



Safety Alert Symbol: This symbol indicates a potential personal injury hazard. Safety information following this symbol must be followed to avoid possible injury or death.



DANGER: Indicates an *imminently* hazardous situation which, if not avoided, will result in death or serious injury.



WARNING: Indicates a *potentially* hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



NOTICE: The signal word to address practices not related to personal injury.

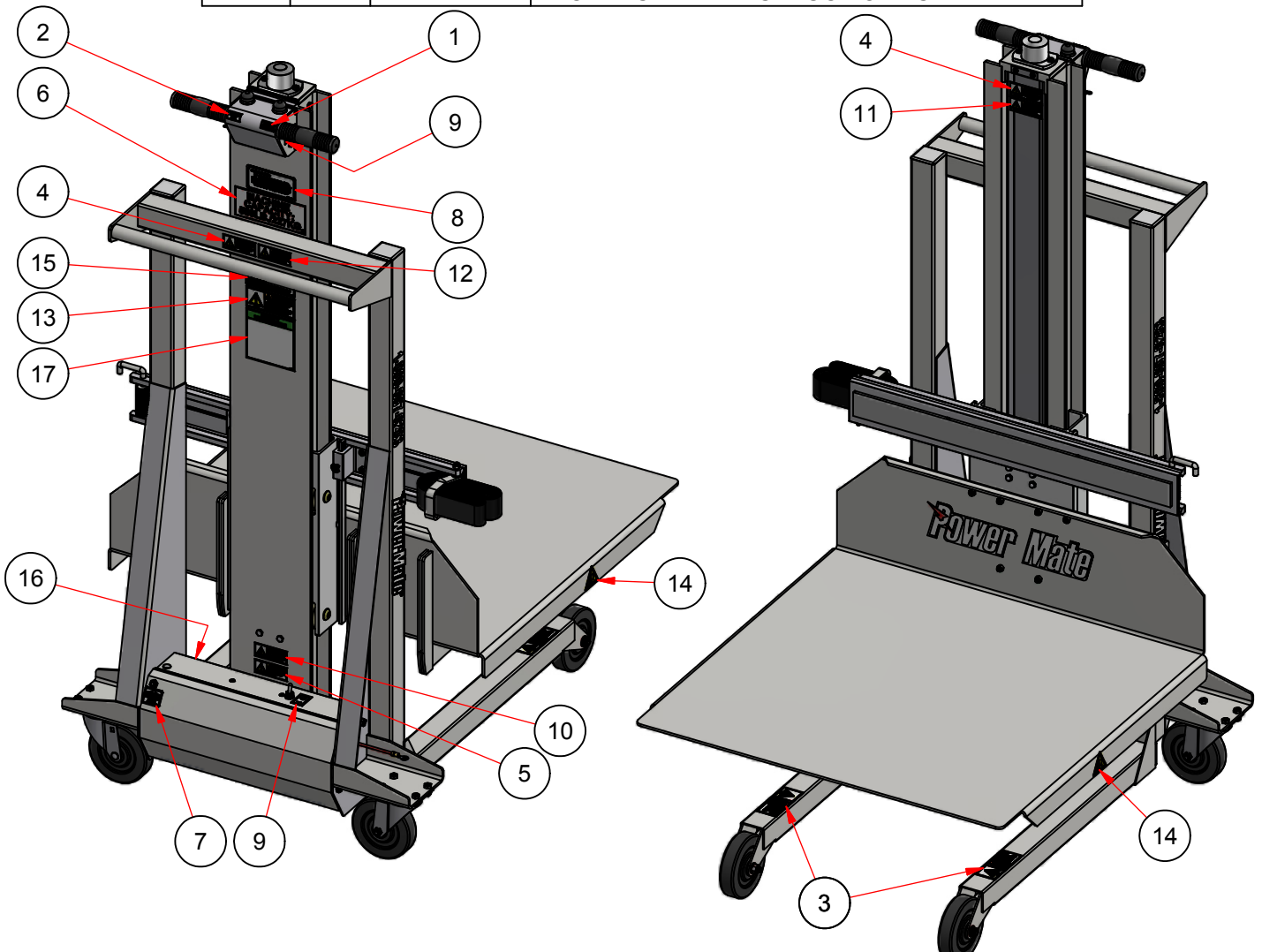
SAFETY LABEL MAINTENANCE

Safety of the operator and surrounding environment must be considered at all times. To that end, safety labelling on the **PowerMate**® must be maintained to provide legible safety information. Clean the labels with soap and water. Do not use solvent-based cleaners because they may damage the labels. Replace damaged or missing labels. Replacement labels may be purchased from L P International Inc. Customer Service Phone number 1-800-697-Mate.

POWERMATE® MODEL LT-SERIES

MANDATORY SAFETY DECAL PLACEMENT

PARTS LIST			
ITEM	QTY	PART No.	DESCRIPTION
1	1	061640	DECAL - LOAD DOWN LT-SERIES
2	1	061650	DECAL - LOAD UP LT-SERIES
3	2	057020A	DANGER DECAL - CRUSH HAZARD FOOT
4	2	057050A	WARNING DECAL - KEEP OFF
5	2	057010A	CAUTION DECAL - AUTHORIZED PERSONNEL
6	1	083860B	DECAL - LOAD CAPACITY 500Lb.
7	1	055820C	DECAL LS CHARGER PLUG
8	1	055840C	DECAL LS DISTRIBUTED BY LP
9	2	055850A	DECAL LS ON/OFF
10	1	057030A	DANGER DECAL - ELECTRICAL SHOCK
11	1	057070A	WARNING DECAL - SCREW GUARD
12	1	057080A	WARNING DECAL - MOVING PARTS Small
13	1	057090A	WARNING DECAL - PINCH POINT HAZARD
14	2	057140A	WARNING DECAL - CRUSH HAZARD FOOT
15	1	057160A	DECAL - FAULT ALERTS
16	1	057170A	DECAL - FUSE 10 AMPS
17	1	057190A	DECAL - SAFETY INSTRUCTION LS



SAFETY PRECAUTIONS



READ THE MANUAL (Mandatory)



Read all safety and operating instructions before anyone operates your PowerMate Unit. Use the PowerMate unit only as described in this manual.

Retain all safety and operating instructions for future reference. Ensure they are readily available.

Heed all warnings in the safety and operating instructions.

Follow all installation, operation, service, and safety instructions.

Never allow unqualified or un-authorized personnel to operate the equipment.

Operator must be familiar with normal operating practices and procedures. Whenever there is any doubt as to safety, the operator should stop the operation and not proceed until safe conditions are restored.

Operator is responsible for maintaining proficiency on PowerMate equipment. Familiarity with instructions, safety procedures, maintenance practices, controls, operation, loading, are required at all times.

Wear safety shoes. Keep hair, loose clothing, fingers and all parts of the body away from pinch points and moving/rotating parts. Use equipment handles and controls for maneuvering and operation.

Operator must have good hearing and vision (with or without correction) and must have good depth perception.

Operator must not be afflicted with any health condition(s) that might cause loss of control or ability.

Do not operate the equipment when using alcohol or taking medication that will affect your physical performance or judgement.

Do not eat or drink during the operation of PowerMate equipment.

Stay alert when operating PowerMate equipment.

No horseplay or practical jokes when operating the equipment.

Do not lift people and never ride on the PowerMate Unit.

Do not abuse the equipment. Use PowerMate equipment only for their intended use.



SAFETY INSPECTION

WARNING: Do not use PowerMate equipment if it is damaged. Check for corrosion. Failure to do so may result in catastrophic failure, which may lead to injury, damage or loss of property, and loss of life.

Inspect the PowerMate unit (see maintenance section) prior to using to ensure the operation can be safely completed. Insure all components of the unit are secure and functioning.

Do not use accessories or attachments not recommended by the manufacturer, as this may increase risk of damage and cause hazards.

Use only PowerMate accessories best suited for the application ie: Strapbar Attachment for box type loads, Cylinder attachment for cylindrical loads, etc.

Insure that the PowerMate unit is charged and ready for the operation.



ENVIROMENT SAFETY

CAUTION : Barriers, warning signs, designated walkways or other safeguards must be provided where pedestrians are exposed to the risk of collision.

Plan your work. Make a plan of action from picking up the load to the point where the load is delivered. Check for doorway size, pathway surfaces and structural integrity, tight corners, turn radius considerations, etc..

Check the work site. Inspect the area to be traversed with the PowerMate unit. Avoid debris, rough surfaces, pot holes, bumps, steep grades, etc.. Avoid spills of any kind, slippery surfaces, soft ground, and standing water. Observe any condition that may cause loss of control of the PowerMate unit leading to injury and/or property damage.

Ensure planned route for PowerMate operation is clear of obstacles and uninvolved personnel. When visibility is obstructed use spotter person for direction instruction and/or clear path of obstacles and un-involved personnel.

Do Not Place the PowerMate Unit on an unstable surface. Supporting surface must be capable of carrying the loaded PowerMate Unit with Operator(s). When moving a load on or off a vehicle, be prepared for movement in the vehicle suspension system.

Do not use PowerMate equipment in an enclosed space where oxygen, flammable, explosive or toxic vapours are present and/or are given off by oil base paint, paint thinner, some mothproofing substances, or in an area where flammable dust is present.



LOADING SAFETY

CAUTION: Never lift a load that is over the rated capacity of the PowerMate® unit. Estimate the weight and center of gravity and position the load on the unit table surface accordingly. The capacity may be limited by the weight and strength of the operator(s). Do not operate with a load that is beyond the operator's physical ability.

Do not attempt to increase the load capacity of the equipment by the use of chains, rope, or other means of securing the equipment to the bed or bodies of vehicles, handrails, wall brackets, etc.

Operators shall determine the weight of unfamiliar loads prior moving the load. Work performed in a centered loaded condition is done easier and safer. Do not raise or lower the loaded table surface while in transit. The table should be at the lowest level prior to moving the unit. Care must be taken when transiting loads with a high center of gravity. Cornering too fast may tip the load and unit resulting in damage and possible injury.

Ensure the load is not damaged, properly packaged, no loose items such as tools used in packaging the load and sharp items (such as nails) projecting from the load.

Protect the PowerMate® strapping material from sharp edges to prevent strap failure. Always inspect straps prior to use. Insure the strapping latching mechanism is fully engaged.

Verify load secureness at the beginning of use, and prior to raising or lowering the table surface with the load. Check for any loose items or load shifting.

Do not load the PowerMate® unit with a load center of gravity that is outside the side to side limits of the unit wheels.



SAFETY IN MOTION

CAUTION: When transiting a surface, avoid high speed turns that may cause the load and PowerMate® unit to tip. Remember that the load must be secure to the PowerMate® unit to ensure the load cannot shift.

When transiting the unit without a load, ensure the load strapping devices are secure, not dangling, to prevent a trip hazard and prevent entanglement in the PowerMate® moving parts.

Always keep your attention in the direction you are moving, monitoring clearances above, below, and each side of the PowerMate® and load. When visibility is obstructed use spotter person for directional instruction and/or clear path of obstacles and un-involved personnel.

Stay alert. Should something break, loosen, or malfunction on your machine, stop work and seek qualified assistance to correct the condition. Do not allow the loaded PowerMate® to attain an un-controllable speed.

BATTERY SAFETY



Never lean over a battery when testing or charging. Cigarettes, flames or sparks, could cause a battery to explode. Keep all ignition sources away from battery. **Do not** strike the sides of a battery with any spark producing item. Make sure work area is well-ventilated.

Never touch both battery terminals with bare hands at the same time. **Remove** rings, watches and dangling jewelry when working with batteries. The metal in the jewelry can cause a shock and burns if contacted with the battery terminals.

Only use insulated/non-conducting tools when making connections on a battery. Never lay tools or other parts on top of a battery.



Because the batteries used in LP International products are of the sealed type, the battery should be replaced if there is evidence of spillage. If there is spilled sulphuric acid present, neutralize with baking soda. **Never** remove vent caps on a sealed battery. In the event of an accident, flush with water and call a physician immediately. If venting gas is significantly inhaled, seek immediate medical attention.

Never store batteries with explosives, flammable materials, chemicals, or food.

Protect batteries from crushing, punctures and shorting.

Do not charge or use booster cables or adjust battery connections without proper instructions and training.

Keep batteries out of reach of children.

Do not accumulate used batteries. Dispose used batteries in accordance with local environmental laws.

CHARGING SAFETY INSTRUCTIONS

Battery Charger



Before using the battery charger, read all instructions and cautionary markings on the battery charger, battery, and product using the battery.

DANGER: Electrical equipment may be hazardous if misused. Operation of this product, and the device it is used on, must always be done with complete knowledge of the product instructions and safety information. Failure to do so may cause serious injury.



DANGER: RISK OF ELECTRICAL SHOCK, BURNS, OR FIRES - The battery charger must be used as supplied. Do not use charger units if the input or output cord is cut or frayed, or damaged in any way. Never replace, splice, or repair cables or connectors supplied with the charger. Do not use the charger if case is damaged in any way. Do not open the charger case for any reason. There are no user serviceable parts. Always be sure that the charger is disconnected from the power source and battery being charged before handling.

NOTICE

Your AC cord came equipped with a three-wire grounding plug (a plug that has a third grounding pin). This plug will only fit only a grounded AC outlet. If you are unable to insert the plug into an outlet because the outlet is not grounded contact a licensed electrician to replace the outlet with a properly grounded outlet. Do not defeat the purpose of the grounding plug. Pay particular attention to convenience of receptacles.

If an extension cord is necessary, use a cord with a current rating at least equal to that of the charger. Cords rated for less amperage than the charger may overheat. Ensure the pins of the extension cord plug are the same number, size, shape, as those on the charger. Ensure the extension cord is wired properly and in good condition.



CAUTION: Position the charger and charger cords so that it is not tripped over, pulled, or placed in contact with heated surfaces. Route charger cords so that they are not likely to be walked on or pinched by items placed upon or against them. Protect the charger from dampness or wet weather, such as rain, snow, and so on. Keep charger away from sources of liquids, such as drinks, washbasins, bathtubs, shower stalls, solvents, flowing water, and so on. Do not allow the charger, or any of its cords and connectors lie in standing water such as a puddle.

CAUTION: Charge only properly maintained and rechargeable lead acid batteries of the same voltage rating that is printed on the charger. Other battery types or voltages, damaged batteries, or improperly maintained batteries may burst or emit dangerous gases.

CAUTION: Only use the supplied charger on PowerMate® products. The charger units supplied by LP International are internally protected against battery polarity reversal and overload. This limits potential damage to the charger. However, the charger does not protect against shorting or overload of external wiring or of the battery being charged. Integrity of the PowerMate® unit wiring should be monitored during routine inspections.

CHARGING SAFETY INSTRUCTIONS continued



CAUTION: Do not operate the PowerMate® unit while connected to the charger.



Do not overload wall outlets or extension cords, as this can result in a risk of fire or electrical shock.

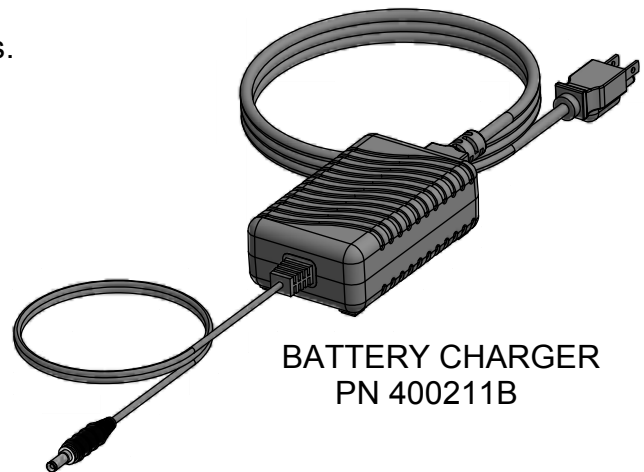
Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in anyway.

To reduce risk of electrical shock, unplug the charger from the outlet before attempting maintenance or cleaning.

Disconnect the power plug by pulling the plug, not the cord.

Do not handle the plug with wet hands.

Unplug the charger when not in use.

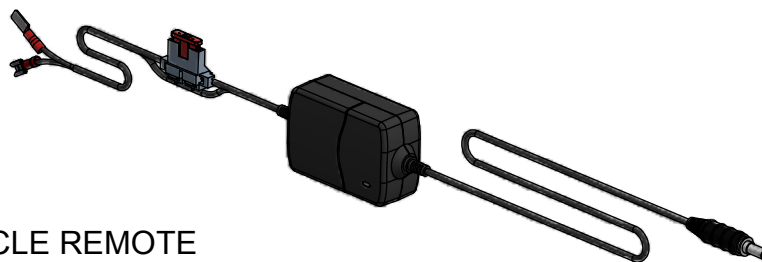


BATTERY CHARGER
PN 400211B



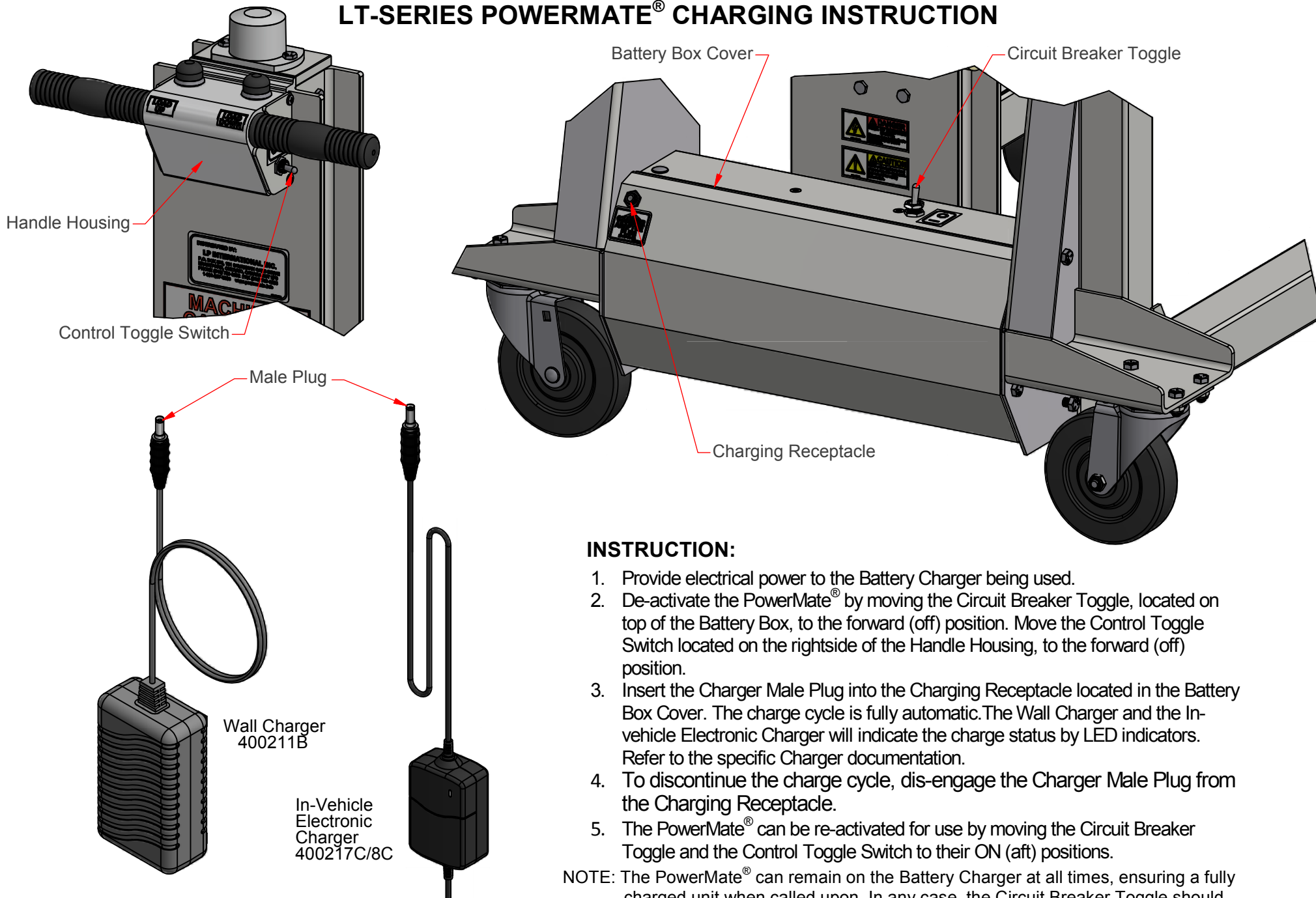
12V IN-VEHICLE CHARGER

WARNING: The In-vehicle charger cannot protect against vehicle damage caused by faults in the wiring from the vehicle battery to the charger or faults in any other portion of the vehicle wiring harness. The user must ensure that the wiring to the charger adheres to the same vehicle wiring standards and safety precautions required for all vehicle wiring.



IN-VEHICLE REMOTE
BATTERY CHARGER
PN 400218C

LT-SERIES POWERMATE® CHARGING INSTRUCTION

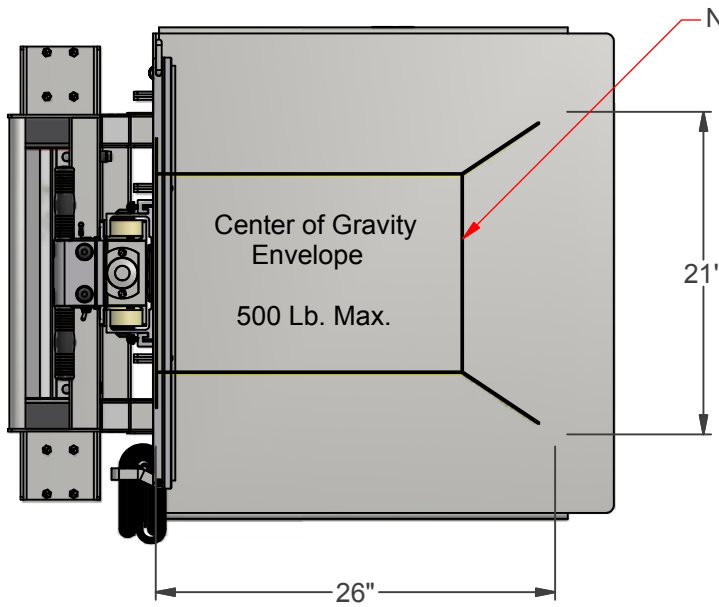


INSTRUCTION:

1. Provide electrical power to the Battery Charger being used.
2. De-activate the PowerMate® by moving the Circuit Breaker Toggle, located on top of the Battery Box, to the forward (off) position. Move the Control Toggle Switch located on the rightside of the Handle Housing, to the forward (off) position.
3. Insert the Charger Male Plug into the Charging Receptacle located in the Battery Box Cover. The charge cycle is fully automatic. The Wall Charger and the In-vehicle Electronic Charger will indicate the charge status by LED indicators. Refer to the specific Charger documentation.
4. To discontinue the charge cycle, dis-engage the Charger Male Plug from the Charging Receptacle.
5. The PowerMate® can be re-activated for use by moving the Circuit Breaker Toggle and the Control Toggle Switch to their ON (aft) positions.

NOTE: The PowerMate® can remain on the Battery Charger at all times, ensuring a fully charged unit when called upon. In any case, the Circuit Breaker Toggle should always be in the off (forward) position when the PowerMate® is not in use.

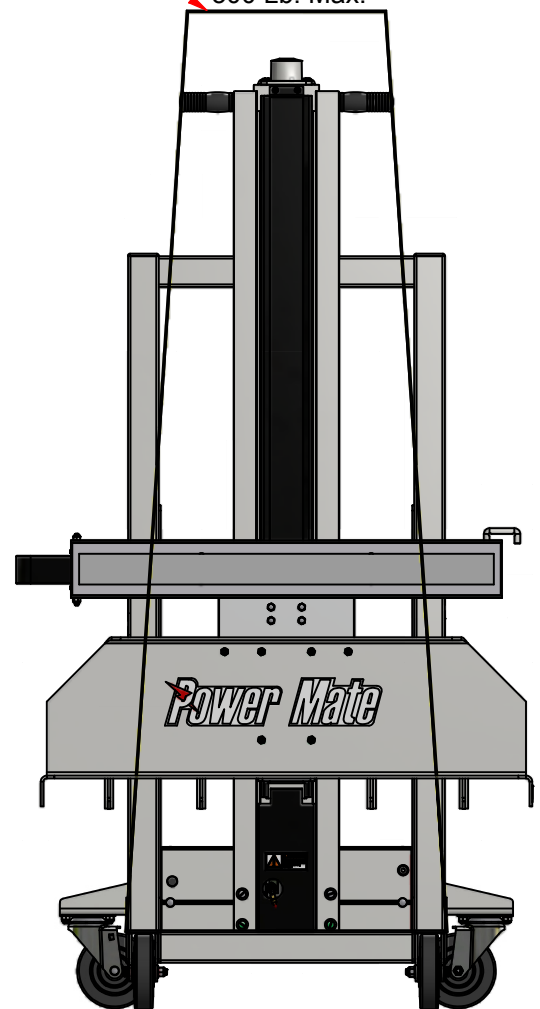
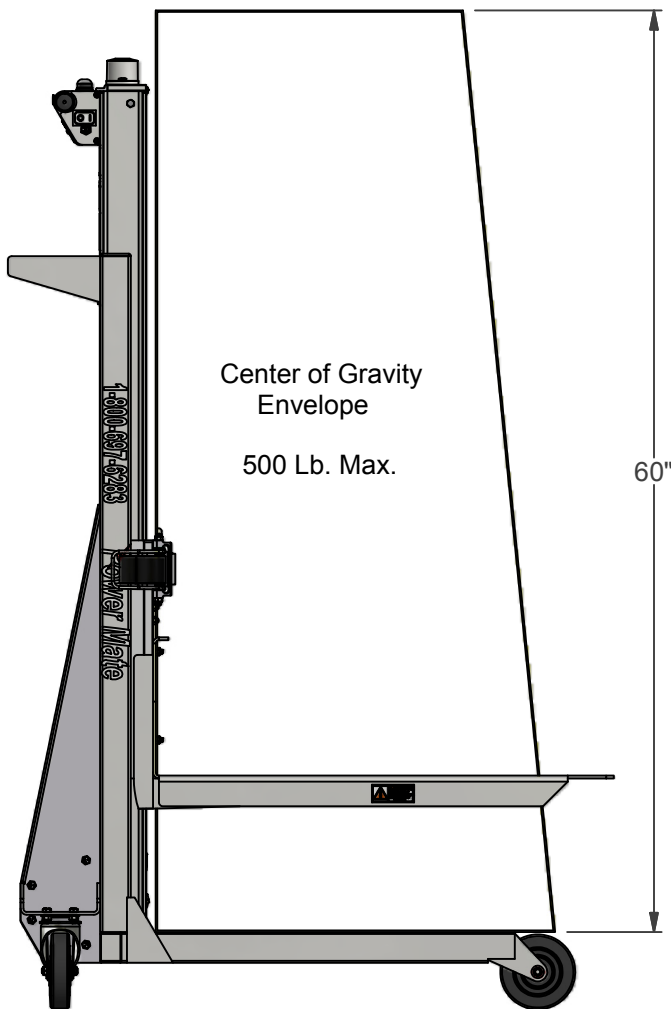
LT-SERIES LOAD RECOMMENDATION CHART



Note: This box does not represent the load physical constraints, but rather, it represents the limits to the position of the load center of gravity.

The size of the top of the envelope is determined by how level the surface the unit is sitting on.

Center of Gravity Envelope
500 Lb. Max.



VERY IMPORTANT! Consideration must be given to the height of the load center of gravity when traversing across a surface. If the surface is un-even, care must be taken to insure the load CG remains in the envelope as the unit is tipped. When in motion, the table should be at its lowest height. Raising the load should only be done on a flat level surface.

STORAGE PROCEDURE

If the equipment is not to be used for an extended period of time (over 3 months) then the following storage procedure should be completed by a knowledgeable service person.

1. Remove the drive screw guard. Clean and lubricate the drive screw with light machine oil. Raise and/or lower the lift platform to access the drive screw as required. Replace the drive screw guard.
2. Disable the equipment by placing the safety toggle switch in the “Off” (O) position.
3. Store the equipment in a dry / dust-free location.
4. Check every 3 months that the battery is fully charged.
5. Before returning the equipment to service, it should be examined by a trained and competent service person.

BATTERY CARE

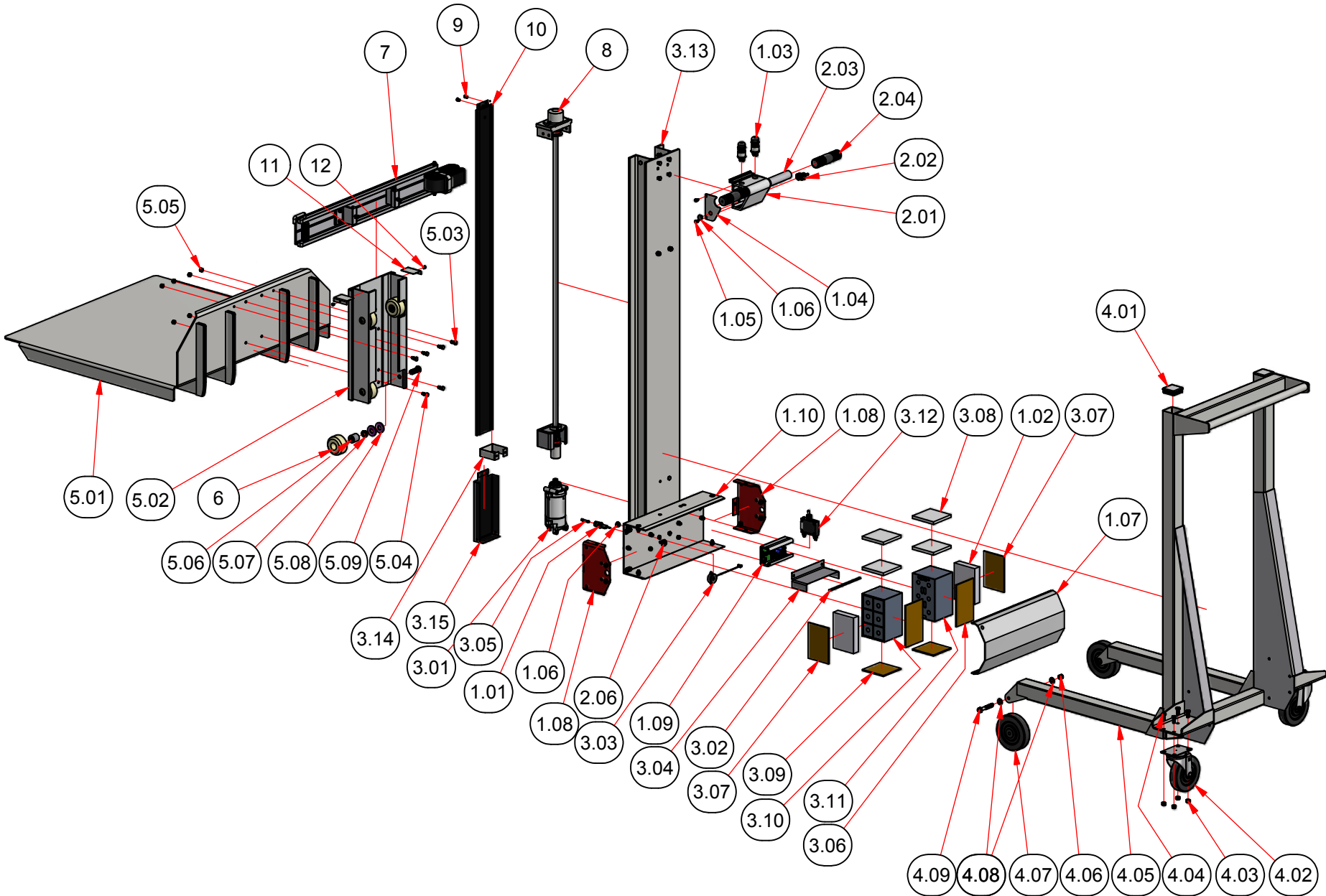
The 12 volt DC battery system is maintenance free and sealed. The gelled electrolyte inside the battery requires no maintenance whatsoever throughout its life. *DO NOT ATTEMPT TO OPEN THESE BATTERIES.*

The best battery life and equipment performance will be attained by keeping the battery fully charged.

The equipment has a small female battery charging receptacle located on the left side of the battery box cover. This receptacle is connected directly to the battery.

The battery charger output wire has a mating male plug.

Insertion of the male plug into the female receptacle connects the battery charger to the battery. Once connected the battery charger automatically commences charging. The charger stops when the battery is fully charged.

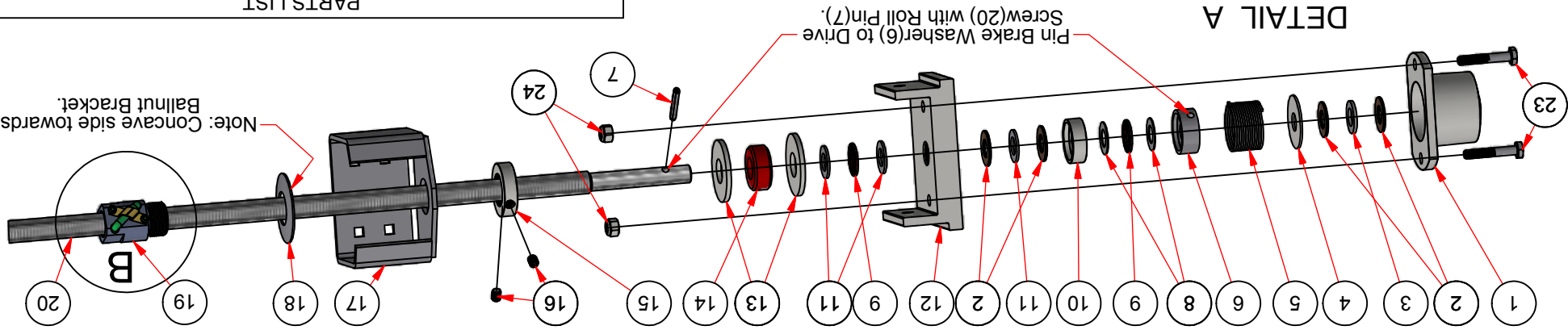


**POWERMATE MODEL LT-1
REPLACEMENT COMPONENT DRAWING**

4.01

PARTS LIST				PARTS LIST			
ITEM	QTY	PART No.	DESCRIPTION	ITEM	QTY	PART No.	DESCRIPTION
1.01	1	052690B	FUSE HOLDER HOLE MOUNT QUICK DISCONNECT	3.13	1	160110A	LIFT TABLE INNER FRAME
1.02	2	110770	BATTERY PACKING 3.5 x 5 x 1 LS	3.14	1	310280A	SCREW GUARD BRACKET LS PF
1.03	2	050210	SWITCH PUSH BUTTON 2 TERMINAL	3.15	1	365475B	LIFT TABLE MOTOR GUARD PF
1.04	1	110055E	HANDLE HOUSING COVER	4.01	2	080400	PLUG SQUARE 2"
1.05	6	050576	SCREW THRD CUT 10-24 x 1/2	4.02	2	051333A	WHEEL CASTER 5" LOCKING (Lock not shown)
1.06	3	052200	PLUG NYLON BLACK 1/2"HOLE	4.03	8	050620	NUT 5/16-18NC NYLON LOCK ZINC
1.07	1	110160	BATTERY BOX COVER	4.04	8	050770	BOLT 5/16-18 x 3/4"HH GR5 ZINC
1.08	2	330610C	AXLE SUPPORT BRACKET LE PF	4.05	1	365220A	LOWER FRAME LT PF
1.09	1	052810	SOLID STATE CONTROLLER	4.06	2	050635	NUT 3/8-16 HEX HEAD ZINC LOCK
1.10	1	110170G	BATTERY BOX ALUMINUM L-1	4.07	2	051334A	5"WHEEL
2.01	1	110050D	HANDLE HOUSING LS	4.08	4	050050	WASHER 3/8 SAE ZINC
2.02	1	051360	SWITCH TOGGLE SPST	4.09	2	050737	BOLT 3/8-16NC x 2 1/2"SOCKET CAP ZINC
2.03	1	110260B	TOP HANDLE ALUMINUM	5.01	1	365330A	PLATFORM LT PF
2.04	2	055310A	HANDLE GRIP LS	5.02	1	160100A	OUTER FRAME LT
2.05	1	110055E	HANDLE HOUSING COVER	5.03	2	150750	BOLT "T" 1/4-20NC x 3/4"ZINC GR5
2.06	1	310393A	CHARGE PLUG ASSEMBLY LS	5.04	4	050750	BOLT 1/4-20NC x 3/4"HEX. HD. ZINC
3.01	1	050860D	ELECTRIC MOTOR	5.05	6	050610	NUT 1/4-20 RING LOCK ZINC
3.02	1	110431	EXTRUDED RUBBER CHANNEL LS	5.06	4	055251	ROLLER AXLE LS
3.03	1	301522	BUZZER ASSEMBLY	5.07	4	050780	WASHER 1/2"LOCK
3.04	1	310430	BATTERY SPACING BRACKET PF	5.08	8	055640	WASHER 1/2"PLATE 1 3/8"LS
3.05	1	051705	FUSE 10 AMP AGC	5.09	4	055300	BOLT HXSOC BUTTON 1/2 x 1 1/2 LS
3.06	2	110836	CARDBOARD OUTER BATTERY FRONT	6	4	055250A	ROLLER WHEEL L SERIES
3.07	2	110835	CARDBOARD 3 1/2 x 5 x 1/8	7	1	460020SA	ALUMINUM STRAPBAR 28"ASSEMBLY
3.08	4	130780	STYROFOAM OUTER BATTERY	8	1	310010	SCREW ASSEMBLY L-1
3.09	2	110837	CARDBOARD OUTER BATTERY	9	2	050575	SCREW THRD CUT 10-32 x 3/8
3.10	1	316053	BATTERY PACK SUB ASSEMBLY LS LH	10	1	365275A	SCREW GUARD LT-1 PF
3.11	1	316054	BATTERY PACK SUB ASSEMBLY LS RH	11	2	385285A	ROLLER GUARD LG PF
3.12	1	051366A	CIRCUIT BREAKER TOGGLE	12	2	050574	SCREW THRD CUT 8-32 x 1/4

POWERMATE MODEL LT-1 REPLACEMENT COMPONENT LIST



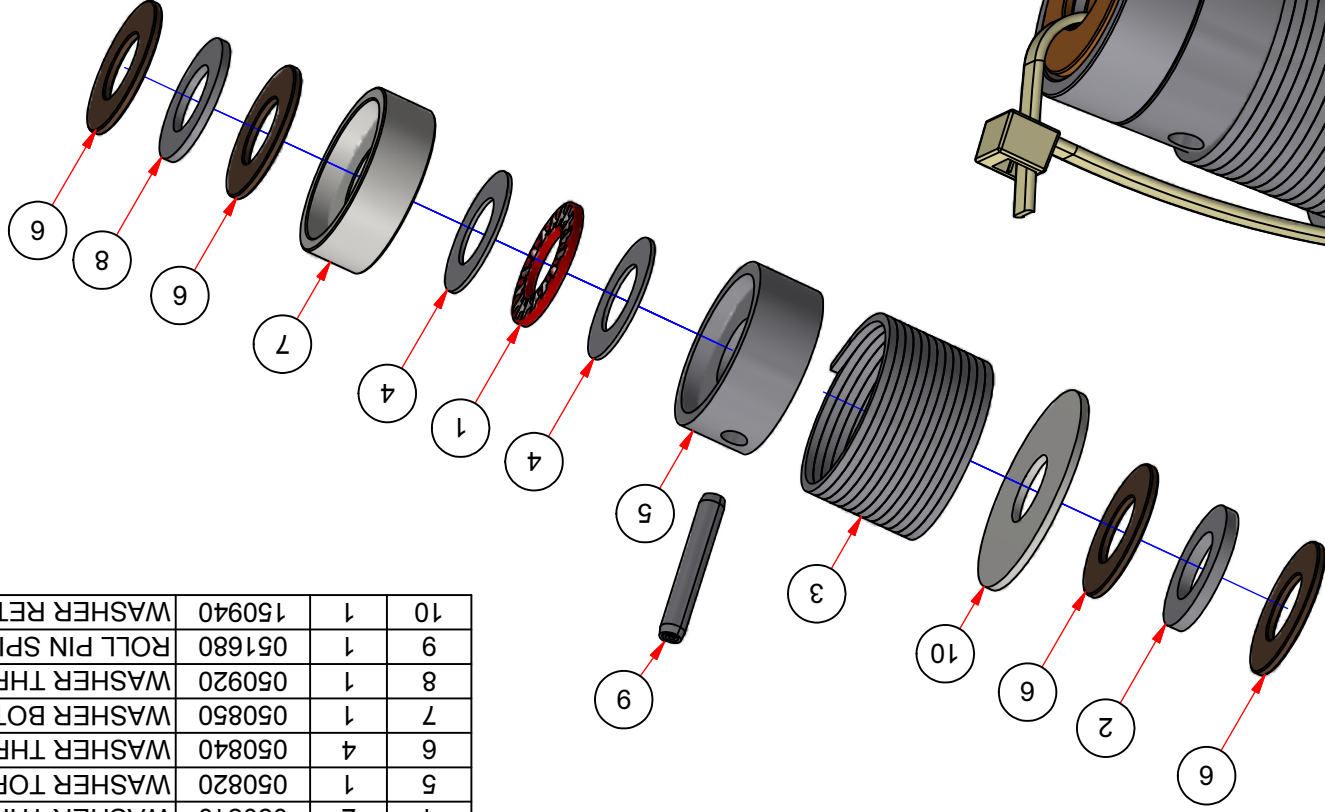
ITEM	QTY	PART No.	DESCRIPTION
1	1	110450	BRAKE CAP L-SERIES
2	4	050840	WASHER THRUST BRONZE .060
3	1	050140	WASHER THRUST STEEL 1/2" .090
4	1	150940	WASHER RETAINER
5	1	050800	BRAKE SPRING
6	1	050820	WASHER TOP BRAKE DRIVE
7	2	051680	ROLL PIN SPIROL 3/16" x 1 1/8"
8	4	050810	WASHER THRUST STEEL 1/2" x .030
9	3	050120	BEARING THRUST STEEL
10	1	050850	WASHER BOTTOM BRAKE DRIVE
11	3	050920	WASHER THRUST STEEL 1/2" x .060
12	1	310070	BEARING RETAINER ASSEMBLY LS
13	2	050040	WASHER 5/8" PLATE ZINC
14	2	100700	URETHANE BUMPER 1/2" L x 5/8" ID
15	1	052090	BALLNUT LOCKNUT 5/8" DRIVE SCREW
16	2	050550	SET SCREW 1/4-20NC x 5/16
17	1	310250A	BALLNUT BRACKET ALUMINUM
18	1	050830B	WASHER DISC SPRING 5/8"
19	1	050170C	BALLNUT 5/8" (NOOK)
20	1	102040C	DRIVE SCREW 5/8 x 47.937"
21	1	051850	WASHER 5/8 SAE ZINC
22	1	300840	COUPLING PAINT FINAL
23	2	050640	BOLT 1/4-20NC x 1 1/2" HH GR5 ZINC
24	2	050610	NUT 1/4-20 RING LOCK ZINC
25	1	055640	WASHER 1/2" PLATE 1 3/8" LS

PARTS LIST

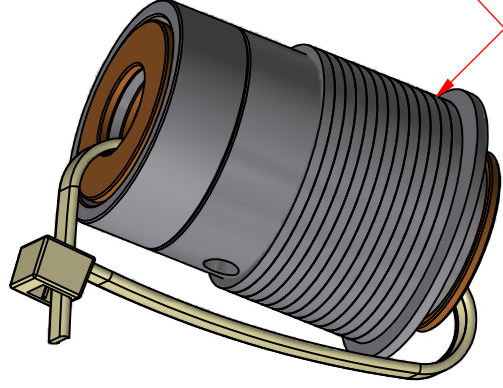
SCREW ASSEMBLY L-1, LE-1, LT-1

4.03

PARTS LIST			
ITEM	QTY	PART No.	DESCRIPTION
1	1	050120	BEARING THRUST STEEL
2	1	050140	WASHER THRUST STEEL 1/2" .090
3	1	050800	BRAKE SPRING
4	2	050810	WASHER THRUST STEEL 1/2" x .030
5	1	050820	WASHER TOP BRAKE DRIVE
6	4	050840	WASHER THRUST BRONZE .060
7	1	050850	WASHER BOTTOM BRAKE DRIVE
8	1	050920	WASHER THRUST STEEL 1/2" x .060
9	1	051680	ROLL PIN SPIROL 3/16" x 1 1/8"
10	1	150940	WASHER RETAINER



The Roll Pin can be found here
under the Brake Spring.
BRAKE ASSEMBLY KIT
(as it is packaged)

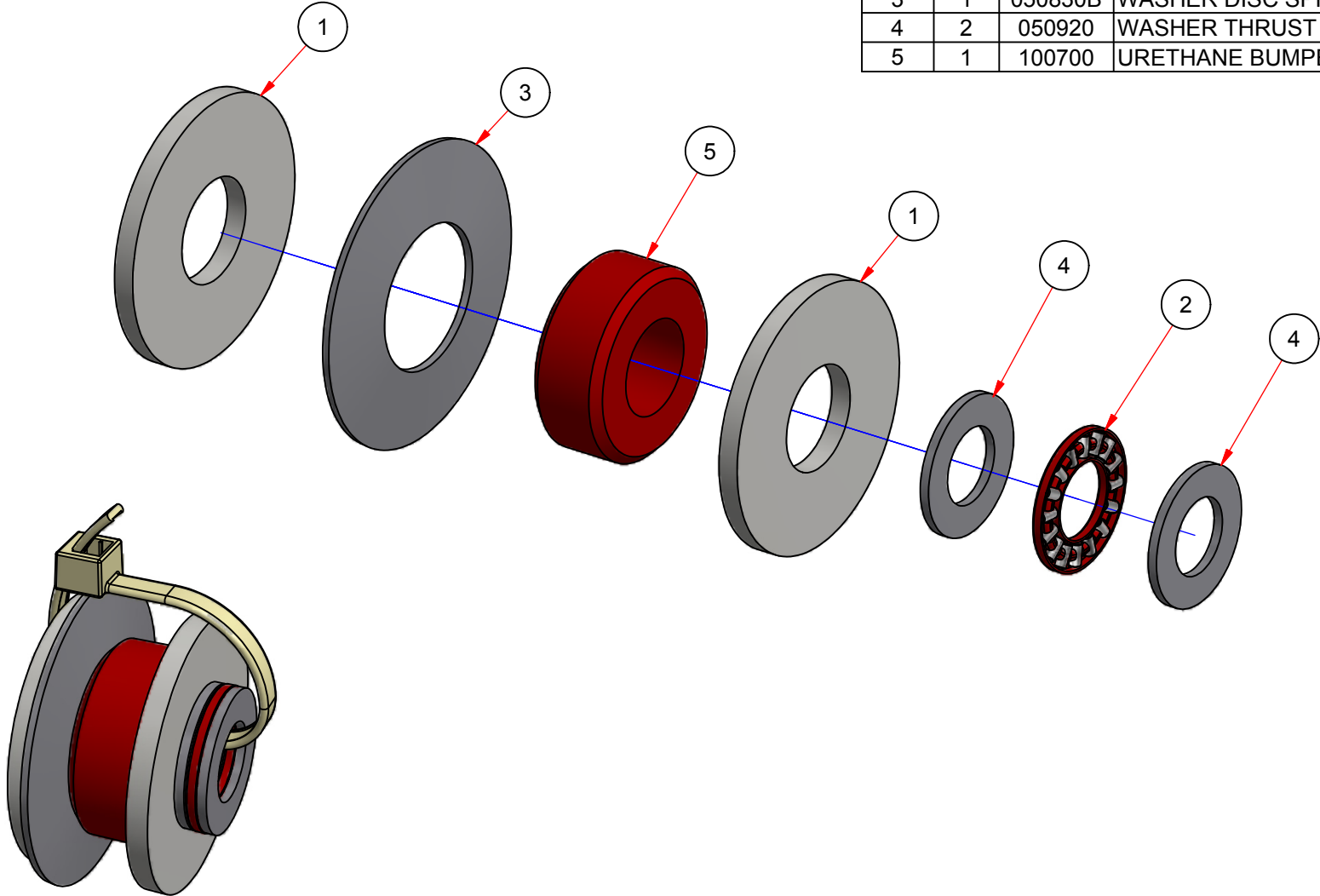


BRAKE ASSEMBLY KIT

PN 400150

4.04

PARTS LIST			
ITEM	QTY	PART No.	DESCRIPTION
1	2	050040	WASHER 5/8"PLATE ZINC
2	1	050120	BEARING THRUST STEEL
3	1	050830B	WASHER DISC SPRING 5/8"
4	2	050920	WASHER THRUST STEEL 1/2"x .060
5	1	100700	URETHANE BUMPER 1/2"L x 5/8"ID



BEARING OVERRIDE KIT
(as it is packaged)

BEARING OVERRIDE KIT
PN 400160

4.05

MAINTENANCE AFTER EVERY YEAR OF OPERATION

This equipment is designed for use as a heavy duty lifting device. To ensure operator safety and continuing trouble free operation, have the equipment thoroughly checked by a trained and competent service person at least once a year. This maintenance should be performed using the following procedure.

1. Place a load of at least 500 pounds (230 kilograms) on the equipment. Cycle the equipment up and down several times in order to evaluate its current condition. This load test will help reveal the condition of the drive and brake systems, the frame structures and the electrical components. Improper conditions may be exhibited by excessive vibration, unusual noise or slow operation.
2. Check the inner and outer frame assemblies for bending, flattening, twisting, looseness or worn surfaces of the frame members. Check the frame roller tracks for cracks and worn surfaces.
3. Check the rollers for free rotation. Lubricate the roller axles with light machine oil.
4. Check that the two main frame caster wheels and main frame front wheels are in good condition. Lubricate the wheel axles with multi-purpose oil.
5. Check that the strapbar mounting hardware is secure. Check that the load binding straps are not cut or frayed and that the strap locking handles are secure.
6. Remove the drive screw as outlined under "Drive Screw Removal and Installation". Clean the drive screw and ballnut. Do not remove the ballnut from the drive screw.
7. Check for a close running fit between the drive screw and the ballnut. There should be no wobble or excessive clearance and the ballnut should run smoothly and freely. There is a small tube on the side of the ballnut for the re-circulation of the ball bearings. Check that the 2 tube halves are fastened tightly together. Check that the area of the outside threads at the top of the ballnut is in good condition. If any of these checks reveal a problem, replace the ballnut as outlined in the manual.
8. If during the test of the equipment in step #1, there was excessive vibration, check the drive screw for straightness. Replace the drive screw as outlined in the manual if the drive screw is at all bent.
9. Check that the ballnut locknut, drive coupling, top and bottom red urethane bumpers and brake cap are all in good condition.
10. Replace all of the components for the brake assembly and the override bearing as outlined elsewhere in this manual.
11. Check that the electric motor armature, brushes and bearings are in good condition.
12. Reassemble the drivescrew assembly and electric motor in the equipment as outlined elsewhere in this manual.

MAINTENANCE AFTER EVERY YEAR OF OPERATION continued

13. Remove and replace the two Push Buttons and Push Button Caps.
14. Check that all electrical wire connections are secure.
15. Check that the battery and battery charger are in good condition and that the battery is fully charged.
16. Repeat the equipment load test from step #1. Cycle the equipment up and down several times in order to evaluate its condition.



WARNING - All repairs, electrical or mechanical, should be carried out only by a trained and competent service person. Use only approved repair parts; any others may create a hazard.

Procedure for Repairing the LT-Series Drive Screw Assembly

NOTE: Read all instructions carefully before attempting to make repairs to any part of the drive screw assembly. Refer to the Screw Assembly Drawing.

Procedure to Disassemble Machine

1. Position the Lifting Table LT-1 near a work bench that will be used for a working surface during the disassembly of the Screw Assembly. Raise the Lifting Table Surface up approximately 20". De-activate the Lifting Table by moving the circuit breaker toggle switch to the forward (off) position.
2. Loosen the thumb-screws and remove the Strapbar Assembly. Remove the two bolts and nuts fastening the Bearing Retainer (12) and Inner Frame. The Platform Assembly can now be slid off the Inner Frame in the direction of the handles. This is a two-person task. Place the Platform Assembly on a work bench. Remove the four nuts retaining the Screw Assembly Ballnut Bracket to the Platform Assembly.

Brake Assembly Replacement

1. With reference to the Screw Assembly drawing for the particular model, remove the two 1/4"bolts(23) and nuts(24). Proceed to remove the brake cap(1), two bronze thrust washers(2), steel washer(3), washer retainer(4) and brake spring(5).
2. Drive out the 3/16" roll pin(7) taking care not to bend the screw shaft. Place a suitable support underneath the brake drive top washer(6) for this operation.
3. Remove the brake drive top washer(6), two steel thrust washers(8), thrust washer(9), brake drive bottom washer(10), two bronze thrust washers(2), and the steel thrust washers(11).

NOTE: At this point, if it is intended to replace the Bearing Override or Ballnut, complete those procedures first before continuing with the brake re-assembly.

4. As per the screw assembly drawing, replace the brake assembly components (Brake Assembly Kit P/N 400150) in reverse order as follows:
Items: 2-11-2-10-8-9-8-6-7-5-4-2-3-2
During assembly, place a few drops of light machine oil on the thrust bearing(9) only. Remember to support the brake drive top washer(6) when installing the 3/16" roll pin(7).
5. Install brake cap(1) and insert the 1/4"bolts(23) and fasten with the nuts(24). Go to procedure for re-assembly of machine.

Override Bearing Assembly

1. Remove the brake assembly as outlined in the Brake Assembly procedure.

2. Continue the disassembly by removing the two steel thrust washers(11), steel thrust bearing(9), two plate washers(13), and the urethane bumper(14).

NOTE: At this point, if it is intended to replace the Ballnut or removing the Drive Screw for service/replacement, complete those procedures first before continuing with the override bearing replacement.

3. As per the screw assembly drawing, replace the override bearing components (Bearing Override Kit P/N 400160) in reverse order as follows:
Items: 13-14-13-11-9-11-12
Apply a few drops of light machine oil to thrust bearing(9) and the roller bearing in the bearing retainer(12).
4. Replace the brake assembly components as per the Brake Assembly instruction step 4.

Drive Screw Removal & Installation

1. Remove the brake assembly as outlined in the Brake Assembly procedure.
2. Remove the override bearing assembly as outlined in the Override Bearing Assembly procedure.
3. Apply a band of tape around the drive screw(20) at each end of the ballnut(19). This will prevent the ballnut from disengaging the drive screw until the appropriate time. The set screws(16) in the ballnut locknut(15) may be loosened and the locknut removed. Remove the drive screw(20) through the ballnut bracket(17) and remove the spring disc washer(18) from the drive screw.

NOTE: At this point, if it is intended to remove the ballnut (19) for replacement, complete the Ballnut Replacement procedure first, before re-installing the drive screw.

4. To re-install the drive screw(20), place the spring disc washer(18) over the ballnut thread, insuring the concave side of the washer is oriented away from the square body of the ballnut. Insert the drive screw(20) through the ballnut bracket (17) as per the assembly drawing. Thread the ballnut locknut(15) onto the ballnut(19) but do not tighten. Remove the tape either side of the ballnut, if applied.
5. Continue the re-assembly process by returning to step 3 of the Override Bearing Procedure.

PROCEDURE TO RE-ASSEMBLE MACHINE

1. Turn the Lifting Table drive screw (20) so the ballnut (19) is positioned approximately halfway along the drive screw (20). Re-attach the Screw Assembly Ballnut Bracket to the Platform Assembly with the 1/4" Carriage Bolts and 1/4" Acorn Nuts. With help, slide the Outer Frame, of the Platform Assembly, over the Inner Frame from the top down.
2. Grip the drive screw (20) and rotate to engage the coupling (22) with the spline on the Lift Table motor. The bearing retainer can now be fastened to the inner frame with 1/4" bolts (23) and nuts (24).
3. Reset the circuit breaker and operate.
4. Adjust ballnut locknut properly. Tighten ballnut locknut (15) hand tight only, then tighten the set screws (16).
5. Test the machine for smooth operation.

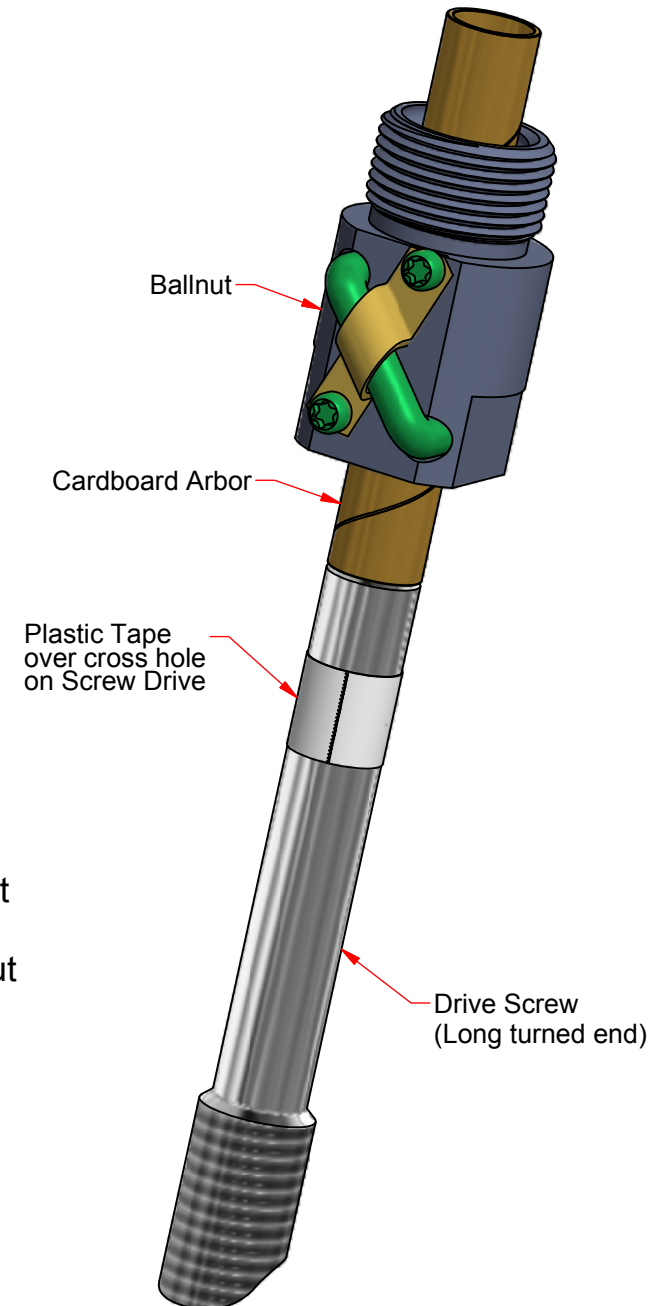
NOTE: Ballnut must spin in the ballnut bracket when machine is operated to its limit in either direction. Re-adjust the ballnut locknut (15) if necessary.

6. Test the machine for proper brake action. This test should be performed with a minimum load of 300lbs (140Kg). Braking of the load should be heard to start immediately upon release of the switch.
7. Re-install the motor guard and then the screw guard.

BALLNUT REMOVAL AND REPLACEMENT

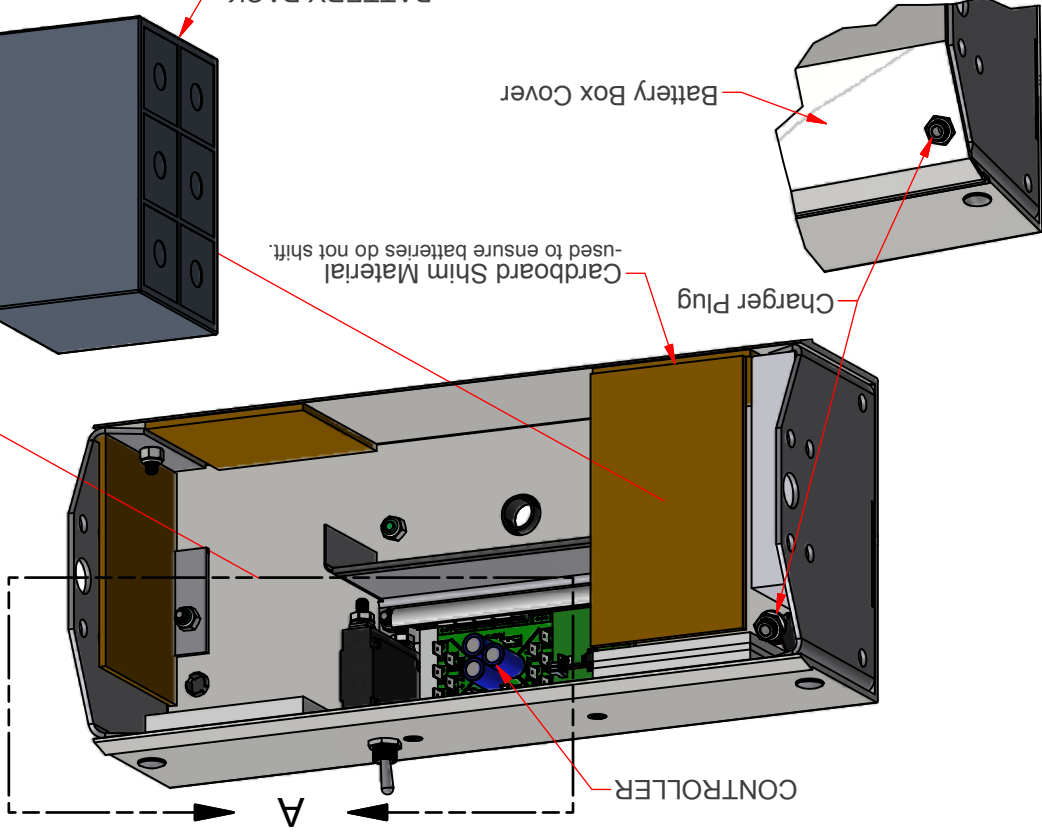
PROCEDURE:

1. To begin, the screw assembly must be removed from the unit.
Follow the procedure for Drive Screw removal and replacement.
2. Remove the tape from the drive screw that is keeping the ballnut in position, if installed.
3. Apply one layer of thin plastic tape banding around the long turned end of the screw over the cross hole. This is the end that the ballnut will be removed.
4. Stand the drive screw vertically with the long turned end up. Thread the ballnut up the screw until it is completely disengaged from the thread. The tape over the cross hole prevents the balls in the ballnut from falling out into the cross hole.
5. Place a cardboard arbor firmly against the end of the screw, insuring that it is centered and square, and slide the ballnut up onto the cardboard arbor. Loop a tie-wrap through the Cardboard Arbor and around the ballnut and secure tight.
6. To install a ballnut, the reverse happens. Remove the tie-wrap from the cardboard arbor with a side cutter. Be sure the arbor does not disengage from the ballnut or all the balls in the ballnut will fall out.
7. Place the end of the arbor firmly, centered and square, onto the long turned end of the drive screw. Slide the ballnut off the arbor onto the screw, over the tape and engage the drive screw thread. Allow the ballnut to spin down the screw to approximately halfway along its length. Band tape around the screw at both ends of the ballnut to keep the ballnut in position.
8. Remove the plastic tape from the cross hole.
9. Return to the instruction for the installation of the Drive Screw, step 4.

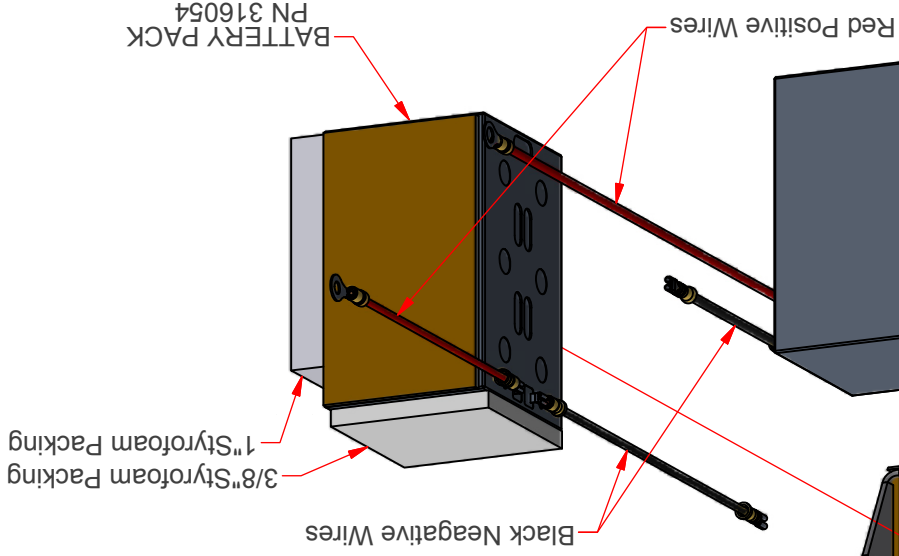
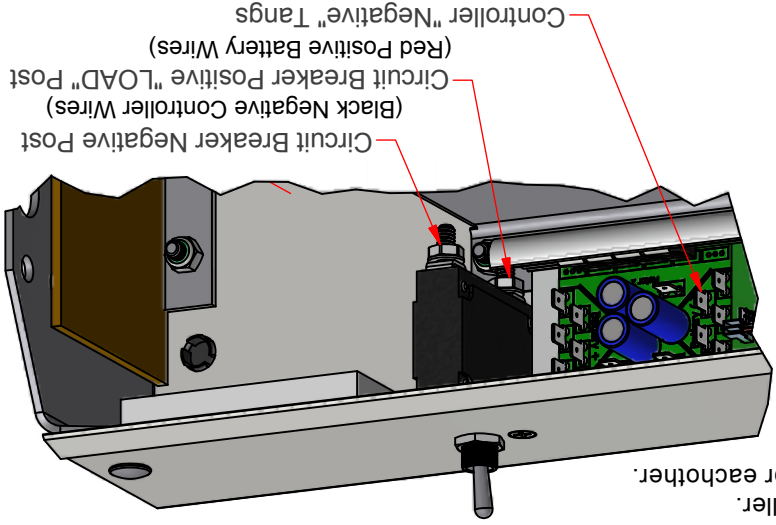


INSTRUCTION:

1. Remove Fuse. Move Circuit Breaker Toggle Switch to the forward "disconnect" position.
2. Remove Battery Box Cover using a large flat screwdriver and hammer. Remove the Cover enough to access both sides of the Charger Plug. Disassemble Charger Plug from the Cover.
3. Disconnect the Battery negative (black) wire connections from the circuit board of the Controller.
4. **CAUTION** Care must be taken to not allow the Battery wire connectors to short circuit to frame or each other.
5. Disconnect the Battery positive wire connections from the "Load" post of the Circuit Breaker.
6. Remove the Battery Packs. It may be necessary to re-install the styrofoam packing.
7. Install replacement Battery Packs 316053 and 316054 as shown below.
8. Install 1" Styrofoam Packing between Batteries and Battery Box ends.
9. Connect the Battery Red Positive Wires to the Circuit Breaker "LOAD" post.
10. Connect Black Negative Wires to the Controller Negative tangs on the circuit board.
11. Replace the Charger Plug and Battery Box Cover.
12. Re-install Fuse, place the Circuit Breaker Switch in the aft "connect" position, and test unit.

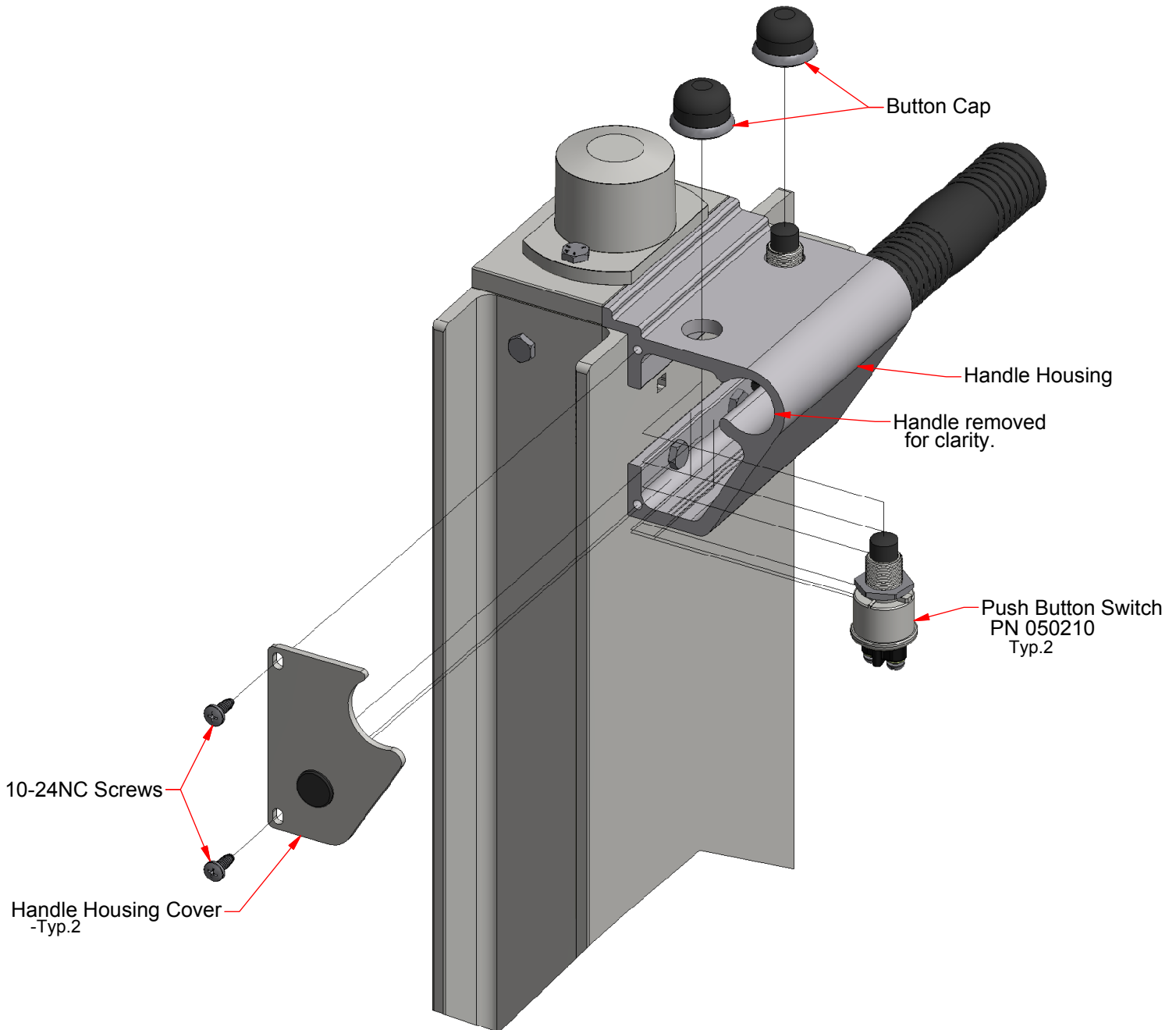


DETAIL A



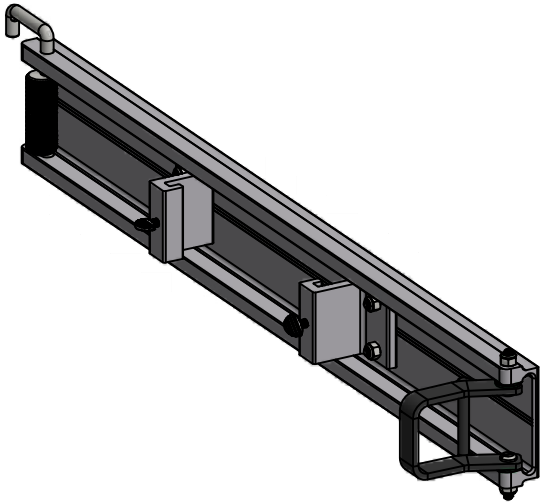
INSTALLATION OF SEALED BATTERIES IN POWERMATE® LT-SERIES

REPLACEMENT BATTERY PACK NO. 410053

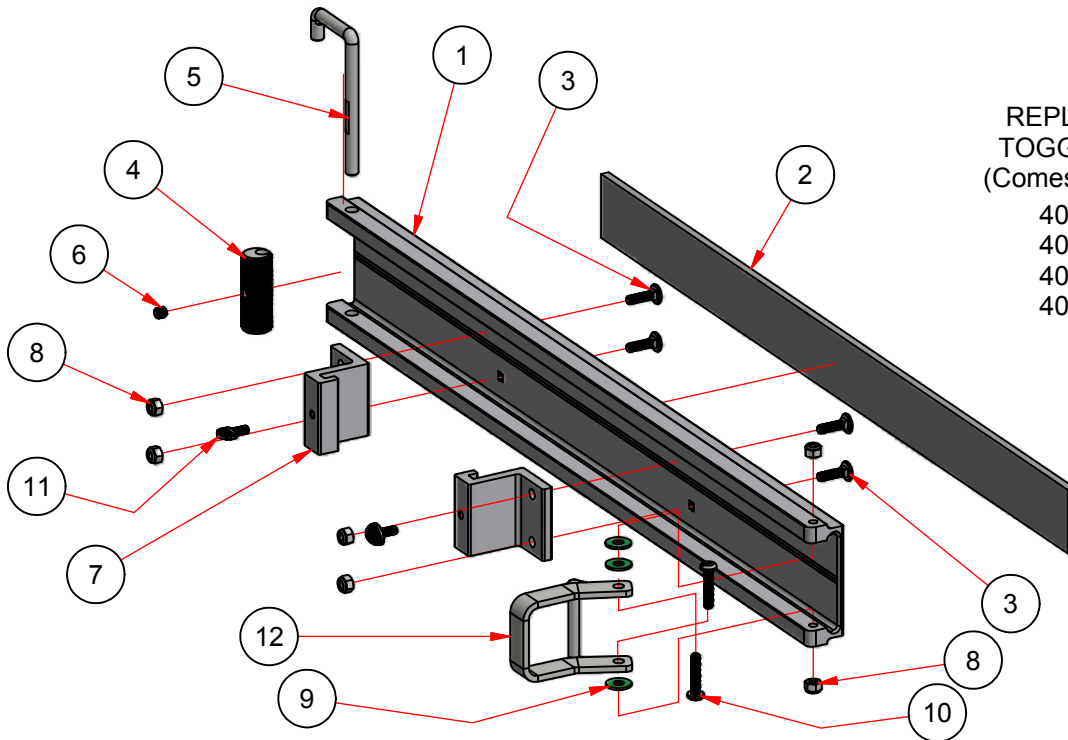
PUSH BUTTON REPLACEMENT LT-SERIES**PROCEDURE:**

Tools required: Phillips screwdriver, water pump pliers, 1/4" slot screw driver.

1. Remove Handle Housing Covers(2) by removing the 10-24NC Screws(2 each).
2. Remove the Button Caps using water pump pliers.
3. Pull the Push Button Switches down and out of the Handle Housing.
4. Remove the screws retaining the wiring to the Push Button Switches using the 1/4" screwdriver.
5. Re-attach the wiring to the replacement Push Button Switches.
6. Re-insert the Push Button Switches into the Handle Housing.
7. Screw on the Button Caps and tighten with the water pump pliers.
8. Install the Handle Housing Covers with the 10-24NC Screw.



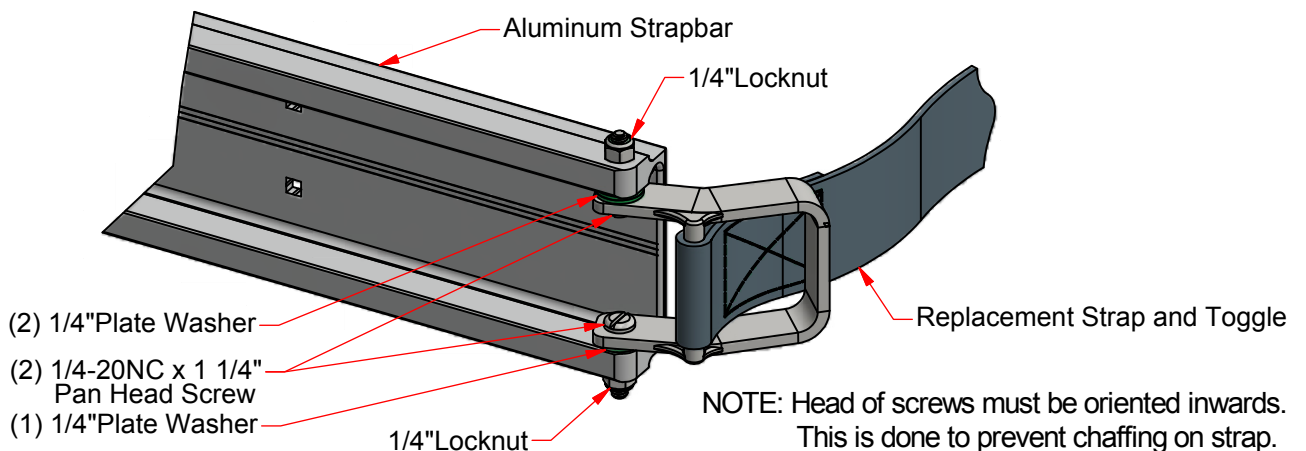
PARTS LIST			
ITEM	QTY	PART No.	DESCRIPTION
1	1	160130	STRAP BAR For LIFT TABLE
2	1	161960	FELT STRAP BAR 1/4"x 2"x 27"
3	4	050740	BOLT 1/4-20 x 7/8 CARRIAGE ZINC
4	1	310040	CAM FINAL PAINT
5	1	302110	CAM HANDLE FINAL PAINT
6	1	050990	SCREW HEXSOC SET 5/16-18 x 5/16
7	2	110020	STRAPBAR CONNECTOR LS
8	6	050610	NUT 1/4-20 RING LOCK ZINC
9	3	050070	WASHER PLATE 1/4 ZINC
10	2	050580	SCREW PAN HD SLOT 1/4-20x1 1/4
11	2	050583	SCREW 1/4-20NC THUMB
12	1	310530	STRAP 10' WITH TOGGLE



REPLACEMENT STRAP/
TOGGLE KITS AVAILABLE
(Comes with fastener hardware):

- 400310 - 10 ft. Strap
- 400320 - 12 ft. Strap
- 400300 - 14 ft. Strap
- 400340 - 16 ft. Strap

STRAPBAR ASSEMBLY LT-SERIES

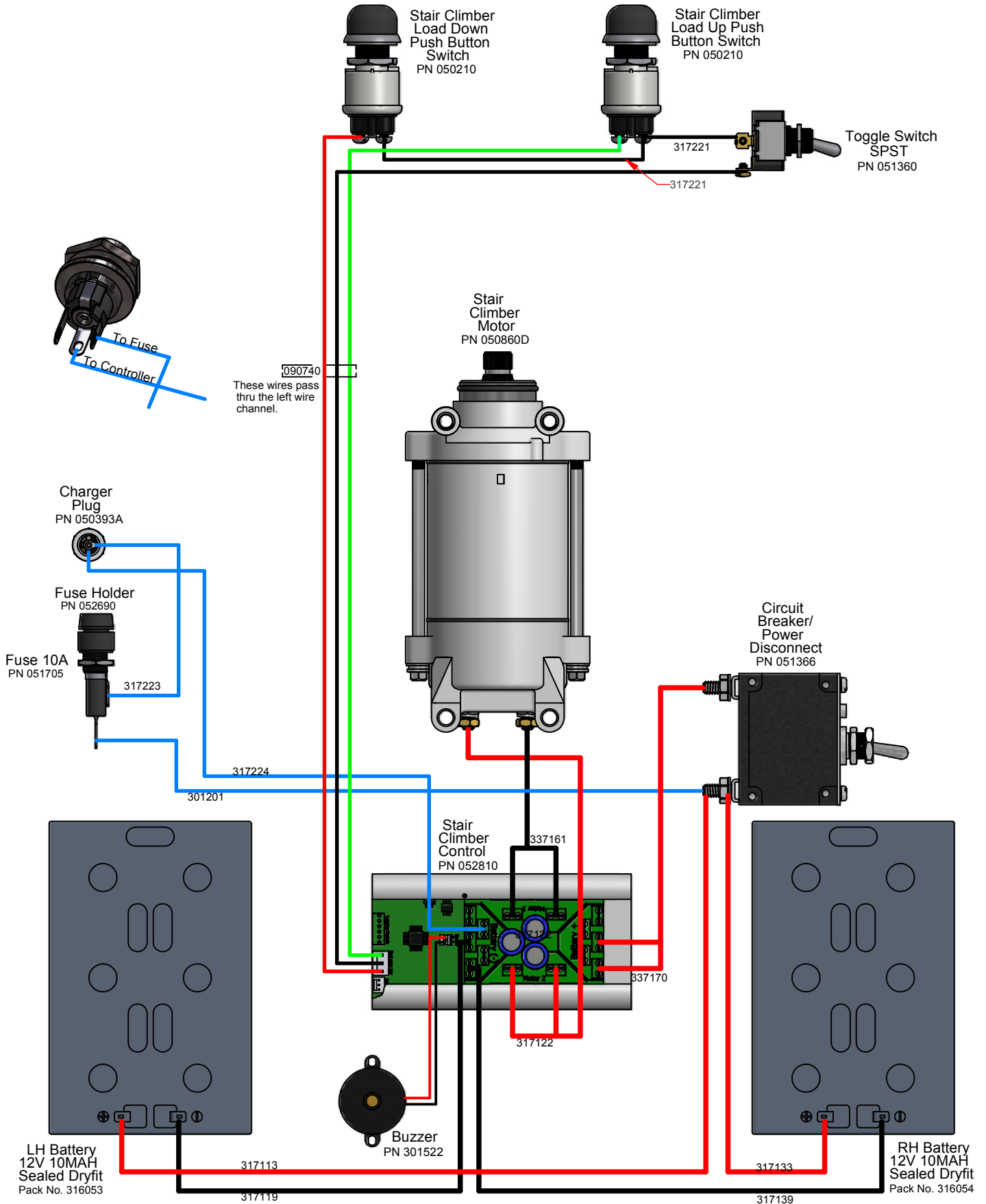


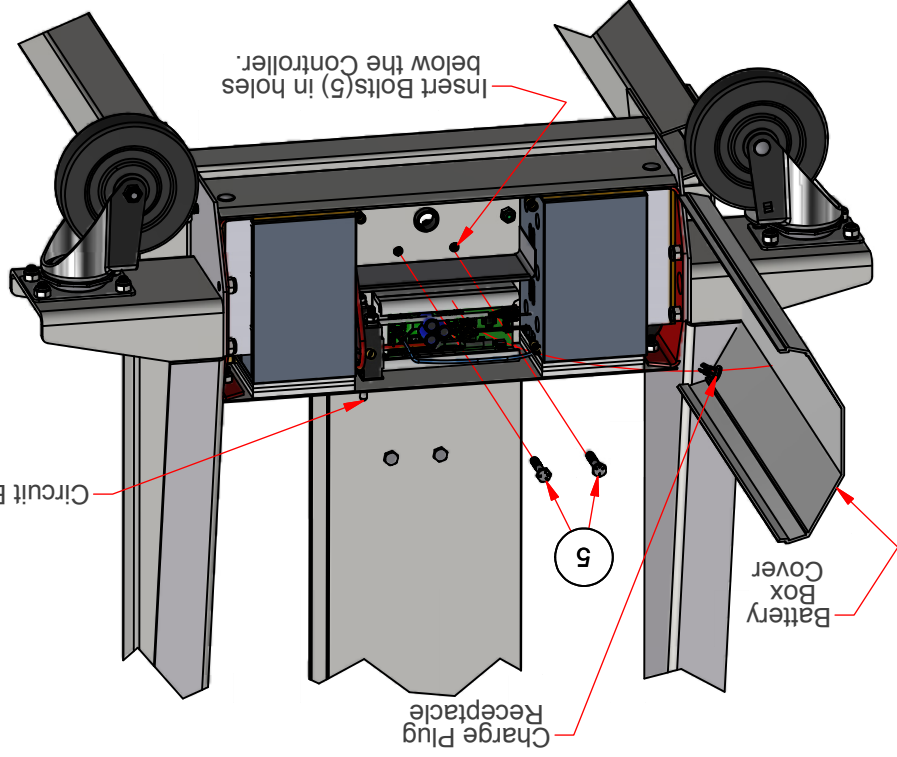
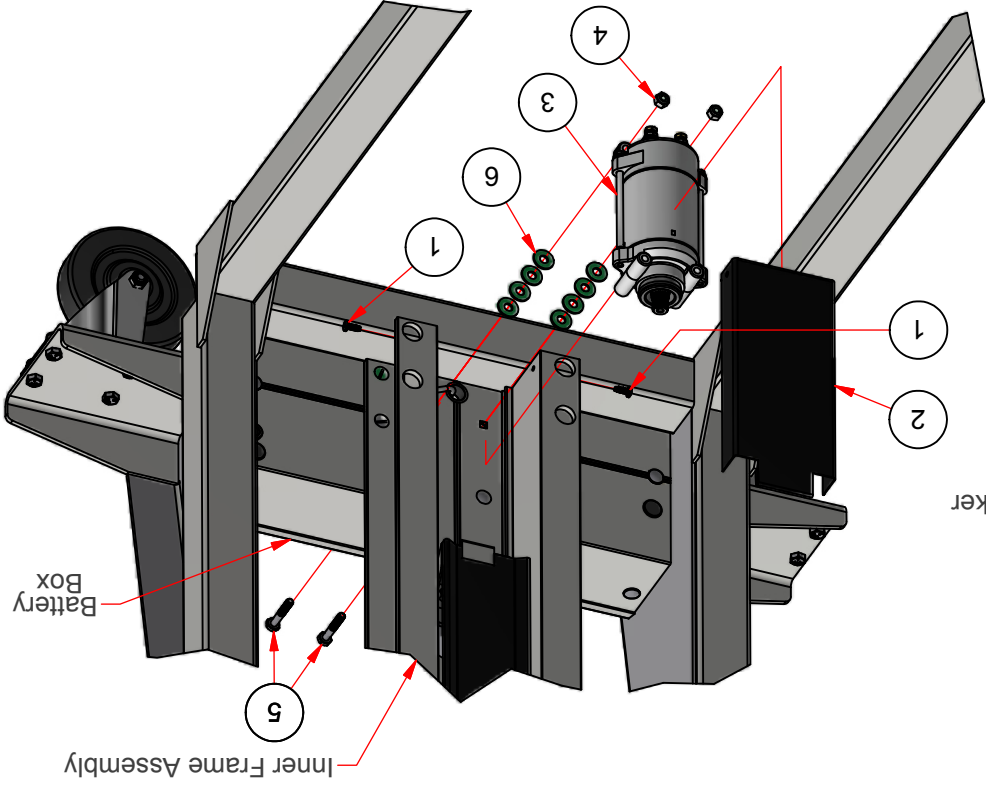
NOTE: Head of screws must be oriented inwards.
This is done to prevent chaffing on strap.

REPLACEMENT STRAP INSTALLATION

TOOLS REQUIRED: 7/16" Wrench, 5/16" Flat Screw Driver.

POWERMATE® LT-SERIES WIRING DIAGRAM





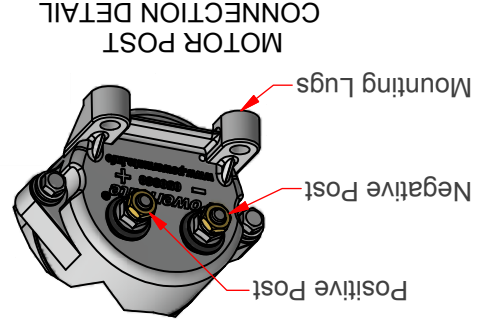
INSTRUCTION:

1. Raise the Table all the way up. Move the Circuit Breaker Toggle Switch to the OFF position.
2. Remove the Battery Box Cover using a large flat screwdriver to pry the Cover off. Care must be taken not to rip the wires off the Charge Plug Receptacle. If required it can be removed by unfastening the retaining nut with a 9/16" wrench.
3. Remove the two 10-24NC Screws(1) securing the Motor Cover(2). Remove the Motor Cover, first up an inch, then out.
4. Using a 10mm wrench, disconnect the power wires to the positive and negative posts connections on the Motor(3).
5. Remove the two 1/4"Nuts(4) and 1/4"Bolts(5) securing the Motor(3).
6. Recover the eight 1/4"Washers(6) when removing the Bolts.
7. Engage the replacement Motor spline with the Drive Screw Assembly.
8. Re-install the two 1/4"Bolts(5), passing the through the Battery Box and Inner Frame Assemblies, four washers(6) each Bolt, through the Motor mounting lugs, and secure with the two 1/4"Nuts(4).
9. Re-attach the red positive and black negative wires to the appropriate marked posts on the Motor(3).
10. Re-install the Motor Cover(2) and secure with two 10-24NC Screws(1).
11. Re-install the Battery Box Cover (install Charge Receptacle if required). Center, then pop into place with a rubber mallet.
12. Re-activate the PowerMate Lift Table by switching the Circuit Breaker Toggle Switch to the ON position.

Test the unit for proper direction and operation. Return to service.

MOTOR REPLACEMENT INSTRUCTION

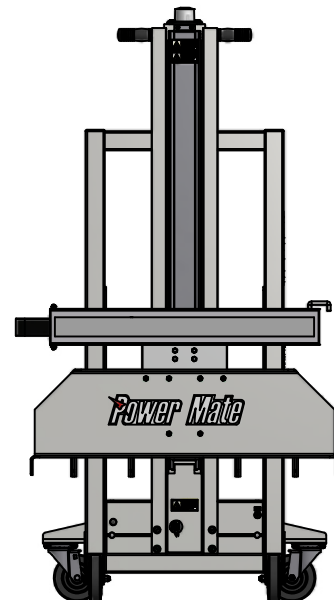
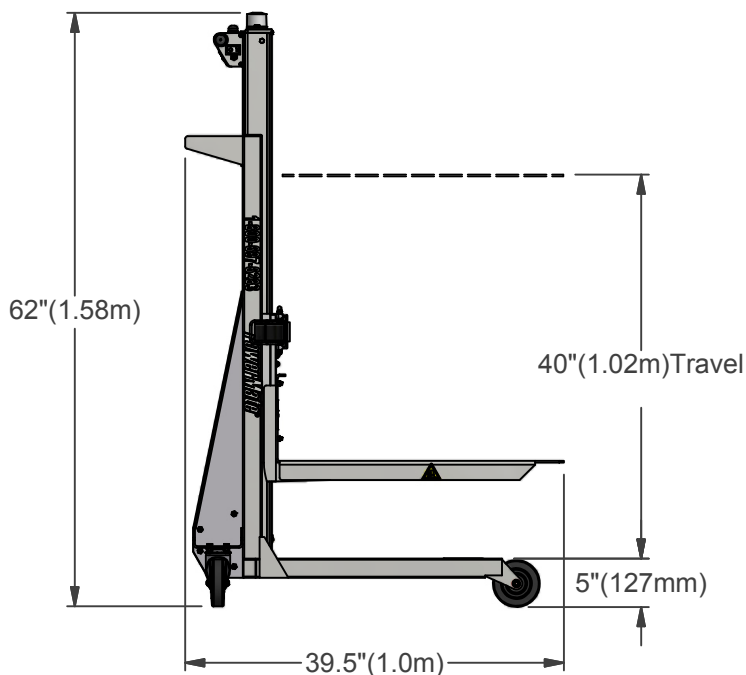
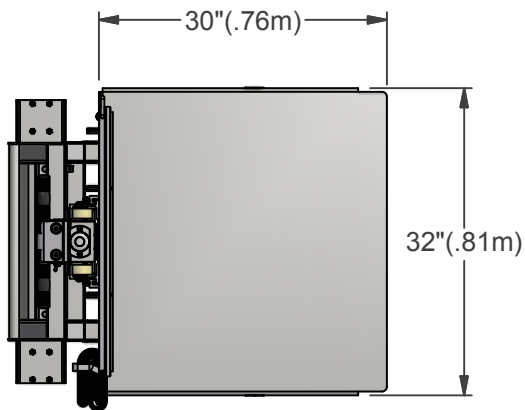
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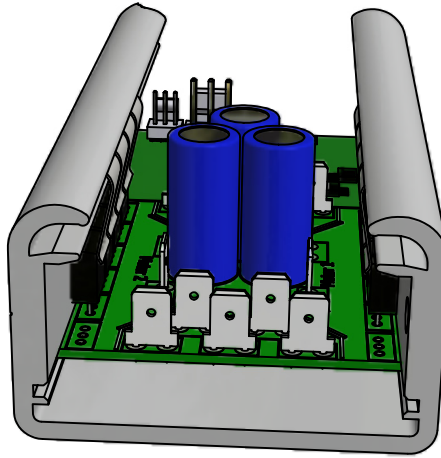


MOTOR POST CONNECTION DETAIL

LT-SERIES SPECIFICATIONS

	ANSI/CSA	CE
Model	LT-1	LT-1
Weight	226 lbs.	103 kgs.
Height	62"	1.58m
Width	32"	.81m
Strapbar Width	28"	.71m
Length	39 1/2"	1 m
Stroke Length	40"	1.02m
Extension Speed	5"/sec.(no load)	127mm/sec. (no load)
Load Capacity	500 lbs.	227 kgs.





STAIR CLIMBER SOLIDSTATE CONTROLLER

The Stair Climber Solid State Controller is a fully solid state Pulse Width Modulated (PWM) controller. Its advanced microprocessor based control implements a state-of-the-art power MOSFET motor drive. Advanced features provide improved functionality, smoother operation, reduced mechanical stress, and protects against abuse and system faults.

ADVANTAGES

- Reduced peak current reduces power loss in batteries, motor, and cabling.
- Reduced peak current reduces battery stress, increased service life.
- Reduced peak torque reduces mechanical stress, increasing service life of the gear train and motor.
- Smooth operation "feel" by controlled acceleration and deceleration (motor voltage ramp-up and ramp-down) eliminating jerkiness.
- Automatically slows speed with heavy loads, improving control and safety.
- Overload protection shuts off if lift load is too heavy.
- Protects batteries by limiting minimum loaded voltage to 8.5 volts.
- Internal protections for many types of internal and external faults.
- Protects controller by inhibiting operation if battery voltage is too high.
- Detects battery+ or battery- short to frame and inhibits motor operation.
- Limits continuous operation to <30 seconds. Control wiring fault protection.
- Alerts to low or excess control heating (from over-use).
- Alerts to overload or excess continuous run time (control fault).
- Alerts to battery+ or battery- short to frame.
- Alerts to internal controller faults.
- Low standby power of less than 20mA.

SPECIFICATIONS

Operating Voltage Range:	8.5V - 14.4V
Maximum Voltage:	16.0V (non-operating)
Over-voltage shut-off	15.5V
Motor Current Limit:	100 Amps (+10%, -5%)
Output Time Rating (@100 Amps):	1.5Min. Minimum (ambient & initial temp<25°C)
Continuous Current (Ambient<25°C)	65 Amps (75 Amps in Le-Series Unit)
Maximum Run without stop:	25 to 30 Seconds (software limited)
Input control current, Max.(@ 13V)	0.3 mA
Standby Current (@12.6V)	< 18mA
Buzzer or LED output:	5 Volts, maximum 15mA
Standby Time (25% charge remains)	40 days (start with 20 AH battery, fully charged)
Operating Temperature Range:	-25°C to 50°C
Storage Temperature Range:	-40°C to 85°C
Environmental:	Solid State Controller Unit is 100% RoHS compliant.

FAULT ALERTS

Faults are indicated by a buzzer producing a series of beeps to indicate various faults as follows:

One Beep - Overload condition (too much weight on Unit) - **Reduce Load**
 - Maximum run time (25-30sec.) exceeded - **Release and re-apply switch**

Two Beeps - Low Battery - **Recharge Battery**

Three Beeps- Battery+ or Battery- shorted to frame. **HALT USE AND RETURN FOR REPAIR**

-System Fault - **FAULTY UNIT -HALT USE AND RETURN FOR REPAIR**

Four Beeps - Overheating due to excessive use (many minutes) - **Allow five minutes to cool**

POWERMATE® BATTERY SPECIFICATIONS

dryfit from Sonnenschein.

dryfit-the name that has a synonym for a future-oriented battery generation

dryfit technology was invented by Sonnenschein.

Solid advantages point-by-point:

Tested and found to be good!

• Maintenance-free and sealed	Needs no maintenance whatsoever throughout its life. Each cell is sealed by a valve preventing penetration by air-borne oxygen. Over-pressure in the cells [e.g. through over-charging] unseats the valve so letting out the excess independent pressure; the valve then closes again. For installations of dryfit batteries in rooms, containers and cabinets the standards VDE 0510 Part 2 are complied with.
• Independence of position	Sonnenschein dryfit batteries of series A200 can be used in any orientation including upside down. In stationery installation, care should be taken to ensure that valves point upwards and are not covered.
• Deep discharge resistant	dryfit batteries survive deep-discharging without suffering damage. Even when discharged and remaining connected to a load for 4 weeks, they recover 80% of their capacity after 48 hours charging. 100% is reached after a few cycles.
• Extremely low self-discharging	Less than 0.1% of the rated capacity per day at +20°C ambient temperature means no re-charging even after up to 2 years storage.
• Cyclic capability	Special measure relating to electrolyte production give A200 version of dryfit batteries good cyclic capability. At 100% discharge [up to discharge cut-off voltage of 1.75 Volts/cell] more than 200 cycles can be obtained. Considerably more cycles are possible with partial discharges.
• Long-life	Under continuous charge operation the life is 4-5 years, end of life being defined as when 60% of the rated capacity is reached [as per DIN 43534].
• Wide temperature range	From -30°C to + 50°C [can also be briefly exceeded]. For operation under extreme temperature conditions, please observe works recommendations.
• High load capacity, all-round use	Robust grid and connector design gives good high-current load properties. Excellently suited for operation under extreme conditions due to high resistance to vibration. The larger types [from 20Ah] are suitable for starting internal combustion motors.
• Simple charging method	Just one charging voltage for cyclic and continuous charging modes. No current limiter needed as charging current is regulated by the battery. Constant charging voltage at +20°C room temperature is 2.3 Volts/cell.
• VdS approval:	At present 8 types are approved by the VdS [federation of German specialist insurers].
• No hazardous goods	Due to immobilized gel electrolyte dryfit batteries A200 are not classified as hazardous goods.

Sonnenschein dryfit batteries comply with the following international standards:

dryfit A 200

DIN 43534 "Maintenance-free" sealed rechargeable batteries with gelled electrolyte.

DIN 43539 Part 5 Tests "Maintenance-free" sealed rechargeable batteries with gelled electrolyte.

VdS approvals: Currently 8 types approved by VdS [federation of German insurers].

DIN 57510/VDE 0510 Rechargeable batteries and battery systems, stationary batteries.

NATO - Selected types tested and approved according to guidelines for military supply standards.

DIN EN 50014/VDE 0179/0171 Part 1/5.78 General specifications.

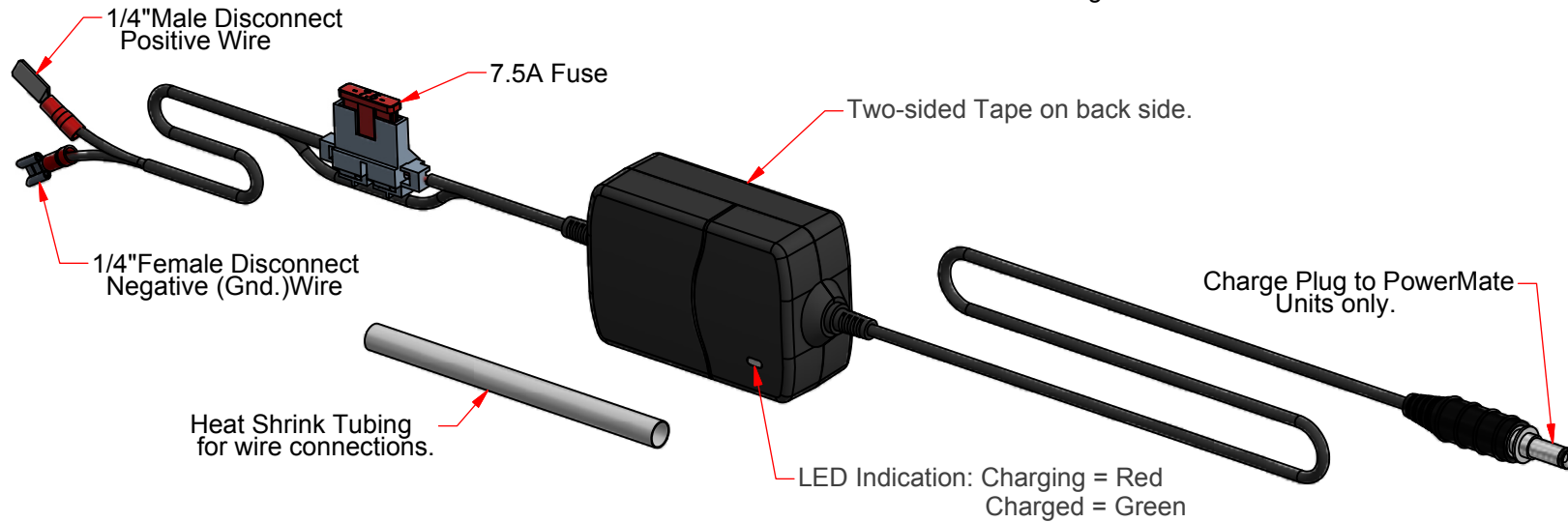
DIN 57833/VDE 0833 Part 1 Danger warning equipment for fire, assault/robbery and burglary.

UL recognition File MH 12547.

PowerMate® units are fitted with Sonnenschein Batteries. Customers using **PowerMate®** get a full days' use from a fully charged battery. When **PowerMate®** is not in use, recharge the battery.

BATTERY CHARGER REMOTE INSTALLATION INSTRUCTION

CHARGER PN 400218C for Serial Numbers 36000 and higher.

**Locating the Charger:**

Determine the position in the vehicle the PowerMate Unit will be using as its charging station. The Battery Charger should be mounted in a position that will allow visibility of the charger and give easy access for the charger output wire (4 1/2 feet) and charge plug to the PowerMate Unit. The charger is equipped with adhesive backing for mounting to any flat surface.

NOTE: The mounting location should be free from moisture, dirt, and other contaminants. The charger should be mounted where the air is free to move around it. It should never be located in a box, compartment, or covered by any object. Doing so may result in excess heating and reduced performance. Do not expose the charger to any type of water spray. Do not immerse in water or any liquid. Should the charger become wet inside it should be disconnected immediately and returned to the manufacturer for refurbishment. Mount where the charger and its cables will not be physically damaged.

Input Wiring:

The installation will require a negative ground contact, and a positive wire coming from the vehicle battery. It is the installers responsibility to ensure the wire is of proper size capable of carrying at least 7 Amps continuous. In order to ensure maximum performance of the charger, the following wire sizes are recommended:

EXTENSION LENGTH	MINIMUM WIRE GAUGE
Up to 10 feet	12 AWG
11 feet to 20 feet	10 AWG
21 feet to 30 feet	8 AWG
Over 30 feet	Not recommended

Attach a 1/4" Male Terminal Disconnect to the negative (Gnd.) wire and a 1/4" Female Terminal Disconnect to the positive wire. Slip on a piece of Heat Shrink Tubing (provided) over the lead in connections and connect the lead in wires to the mating charger input wires. Slide the Heat Shrink Tubing over the connections and shrink. Secure all wires to prevent damage. Wire loom material may be used. It is the installer's responsibility to ensure the wiring to the vehicle battery and negative ground point are properly protected and secure.

Warranty

Every **PowerMate**® Safety Moving System supplied by L P INTERNATIONAL INC. including accessories, with the exception of batteries, straps and shear pins is guaranteed against faulty workmanship and defective materials for a period of one year from date of purchase, when given normal use and maintenance in accordance with operation manual.

The above warranty will apply only to the original purchaser.

L P INTERNATIONAL INC. do not hold themselves responsible for any damage caused by atmospheric or chemical influences nor defects due to unskilled operation, lack of maintenance and use of unprescribed lubricants. Neither do they accept responsibility for normal wear and tear and consequences therefrom. Warranty Service is available through your local authorized dealer or distributor. Warranty is void if serviced by unauthorized persons.

Machine Model _____ Serial No. _____



Manufactured By:
L P INTERNATIONAL INC.

MAILING ADDRESS

P.O. BOX 696, 151 SAVANNAH OAKS DR.
BRANTFORD, ONTARIO, CANADA
N3T 5P9

USA MAILING ADDRESS:
P.O. BOX 1132
LEWISTON, N.Y., 14092-8132

PHONE: (519) 759-3292
1-800-697-6283
FAX: (519) 759-3298

DECLARATION OF CONFORMITY

ORIGINAL LANGUAGE VERSION

Date:

Manufacturer: L P INTERNATIONAL INC.
Box 696, 151 Savannah Oaks Dr
Brantford ON CA N3T 5P9

declares that the apparatus:

PowerMate® Model Serial №

⇒ conforms to the protection requirements of Council directive:

**2006/42/EC (Machinery Directive)
2004/108/EC (Electromagnetic Compatibility Directive)**

on the approximation of the laws of the Member States relating to machinery directive and electromagnetic compatibility.

⇒ STANDARDS including Annex 1 of 2006/42/EC and 4 (Lifting)

NAME L. Jeavons

TITLE General Manager

SIGNATURE

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DAILY MAINTENANCE SCHEDULE

NOTE: If attempting any service repair work disconnect the battery by depressing the toggle on the circuit breaker.

- Inspect unit frame for structural damage.
- Inspect wheels and casters. Grease the wheels if required.
- Inspect all bolts and fasteners are in place and secure.
- Inspect the load straps for damage. Nicks or tears are not acceptable.
- Inspect the push button switches for condition and operation. Make sure the wiring is secure.
- Test the circuit breaker for operation. Cycle the unit testing for operation, direction and smoothness.
- Observe the roller operation in the outer frame rails. Oil rollers as required. Inspect the drive screw and ballnut for damage, bending (wobble during operation), and lubrication.
- Ensure the operating manual is readily available for reference.
- Keep the battery fully charged.

FOR PARTS AND SERVICE CONTACT:

1-800-697-Mate

