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stanley 

L Series Instruction Manual



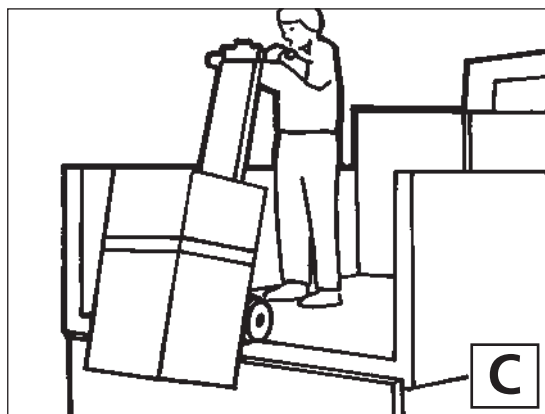
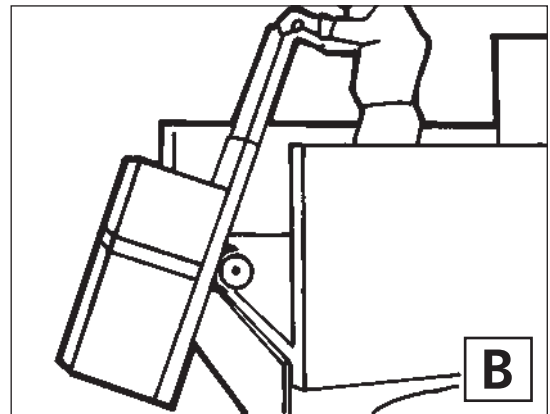
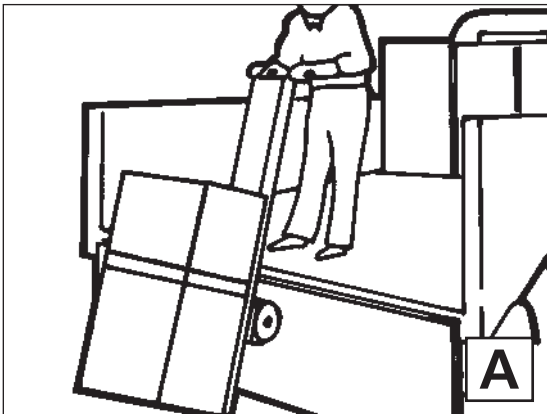
LOADING AND UNLOADING FROM A VEHICLE

Loading on to a vehicle

1. Position PowerMate as shown in (Fig A) close to the tailgate at the rear of the vehicle, allowing room for the wheels of PowerMate to clear vehicle upon raising.
2. Push "Load Down" button and raise wheels until they rest on the vehicle bed shown in (Fig B).
3. Push "Load Up" button and raise the toeplate/load to the vehicle floor, as shown in (Fig C).
4. PowerMate can now be positioned anywhere on the truck bed.

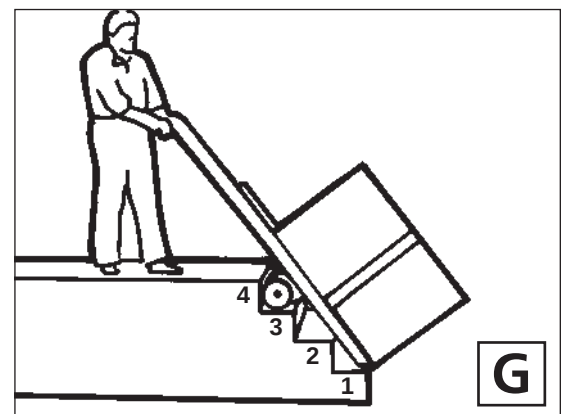
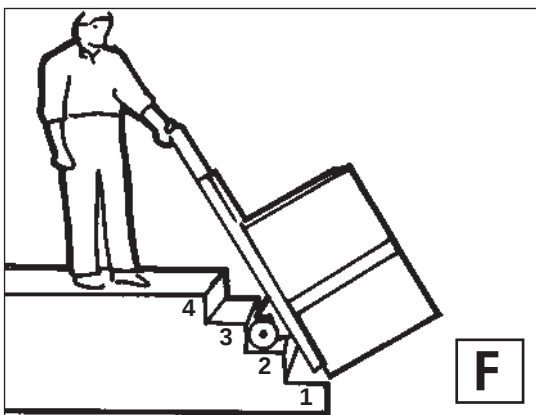
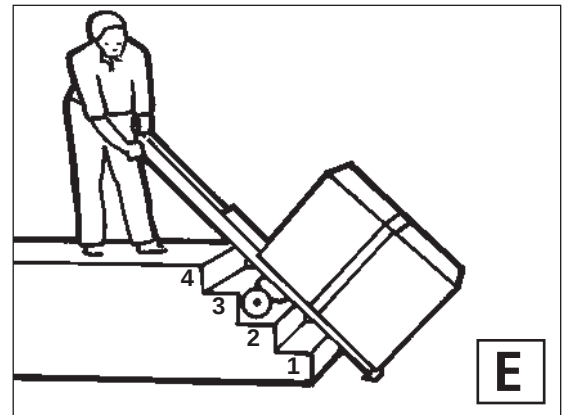
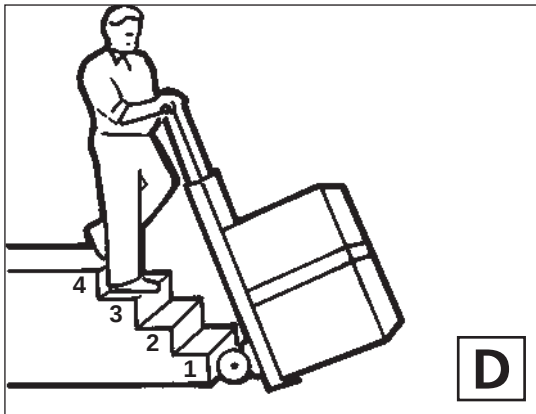
Unloading from a vehicle

1. Locate PowerMate as shown in (Fig C) with the wheels just far enough away from the end of the tailgate/vehicle bed to allow the frame to clear as it is lowered as shown in (Fig B).
2. Push "Load Down" button and lower the toeplate/load to the ground as shown in (Fig B).
3. Push "Load Up" button and lower the wheels to the ground as shown in (Fig A). The load and the PowerMate can now be manoeuvred as required.



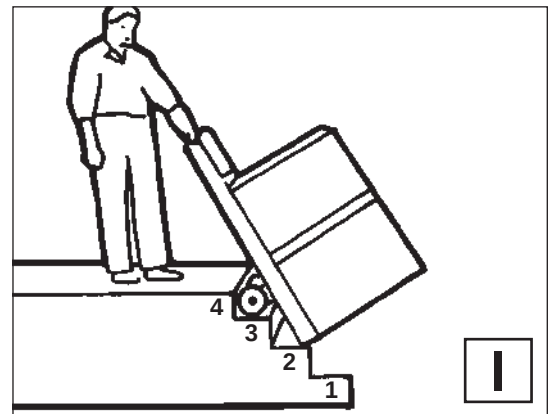
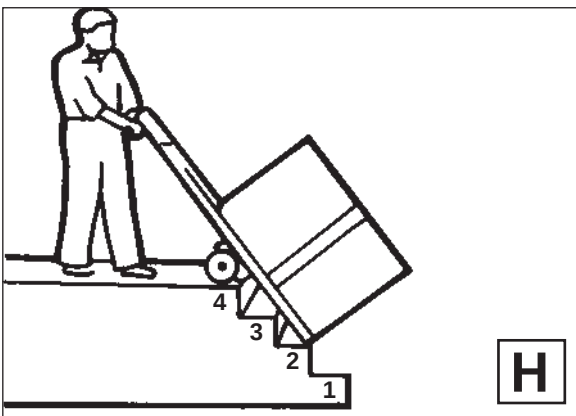
TAKING A LOAD UPSTAIRS

1. Manoeuvre PowerMate backwards to the first step as shown in (Fig D), just near enough to allow the wheels to clear the edge of the treads when raised as shown in (Fig E).
2. Pivot PowerMate on the heel of the toeplate as shown in (Fig E). Push "Load Down" to raise the wheels to rest on step 2.
3. Raise the toeplate off the ground, pivoting on the wheels of PowerMate . Push "Load Up" button, raising PowerMate frame and load and resting the frame on step 1 as shown in (Fig F).
4. Pivot PowerMate on the load frame so that the wheels are clear of the steps and push the "Load Down" button to raise the wheels to step as shown in (Fig G).
4. Repeat procedures 3 and 4 until reaching the top of the stairs.



TAKING A LOAD DOWN STAIRS

1. Position PowerMate at the top of the stairs with the load frame overhanging and clear of the steps. Push the "Load Down" button to lower the load frame and load, and rest it on step 2 as shown in (Fig H)
2. Pivot PowerMate on the load frame and push the "Load Up" button which will lower the wheels to step 3 as shown in (Fig I).
3. Pivot PowerMate on its wheels to lift the load frame clear of the steps and push the (Load Down) button to lower the load frame to rest on step 1.
4. Repeat procedures 2 and 3 until reaching the bottom of the stairs.



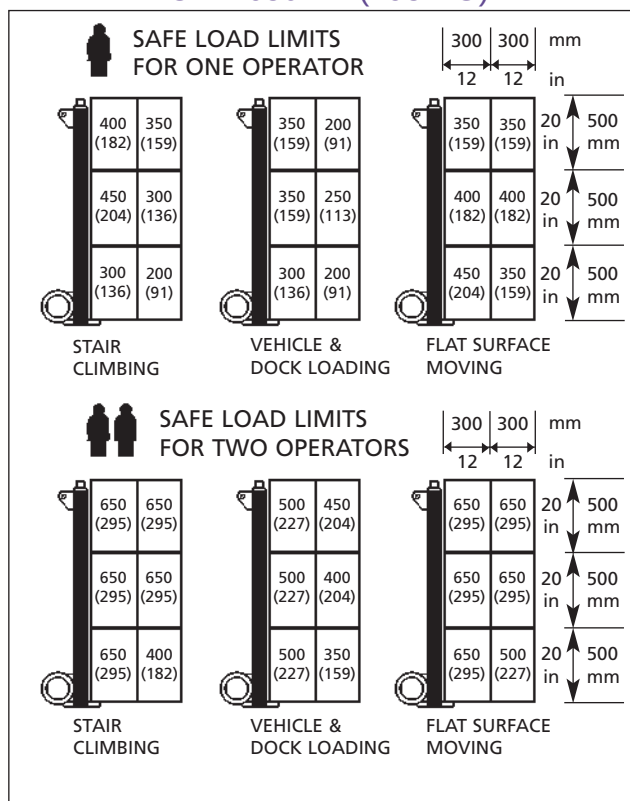
LOADING INSTRUCTIONS

After establishing the weight of your load and its centre of gravity, refer to the load drawings to determine:

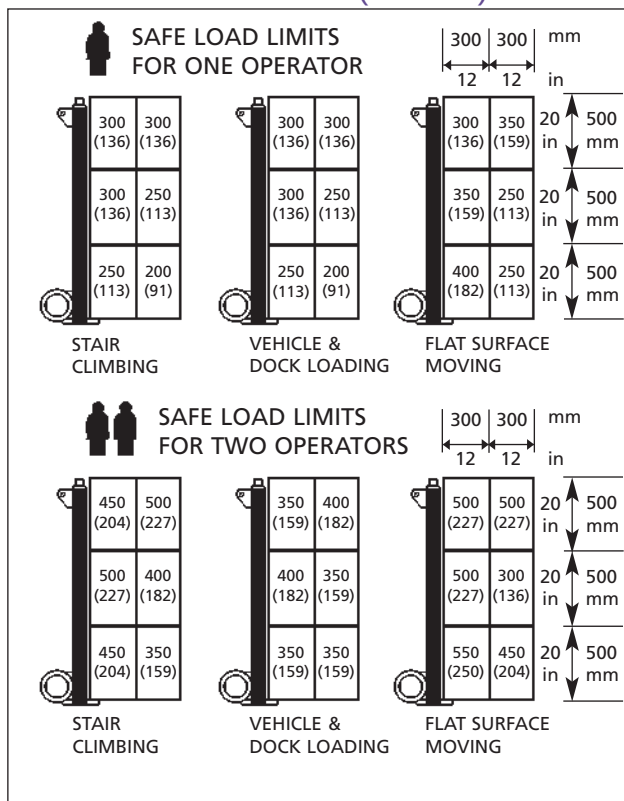
1. That the capacity of PowerMate is adequate for the intended application.
2. Whether one or two operators are required.

NOTE: Load ratings are calculated for trained, proficient, experienced operators and should be used as a general guide only.

L1 MAX LOAD 650 LB (295 KG)



L3 MAX LOAD 550 LB (250 KG)



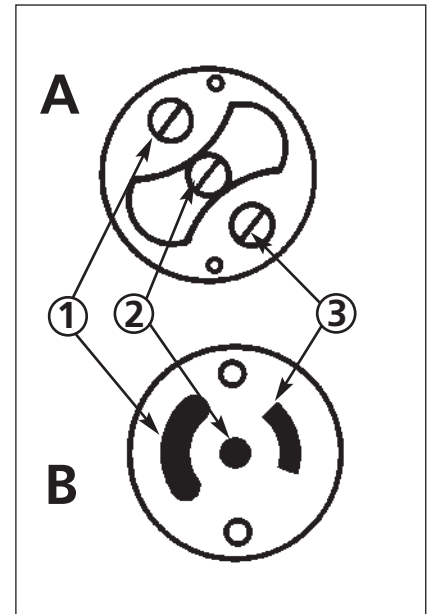
INSTALLATION OF CHARGER ADAPTOR PLUG

1. Battery Charger

Connect the positive charging wire of the battery charger to the the large outside terminal of the charger adaptor plug and the negative wire of the battery charger to the centre post of the charger adaptor plug.

2. Vehicle Battery

Connect a wire from the battery to the charger adaptor plug so that the positive post of the vehicle battery is connected to the outside large terminal of the charger adaptor plug and the negative post of the vehicle battery is connected to the centre post of the charger adaptor plug.



A. Back View

1. Outside large terminal positive.
2. Centre post negative.
3. Not used.

B. Front View

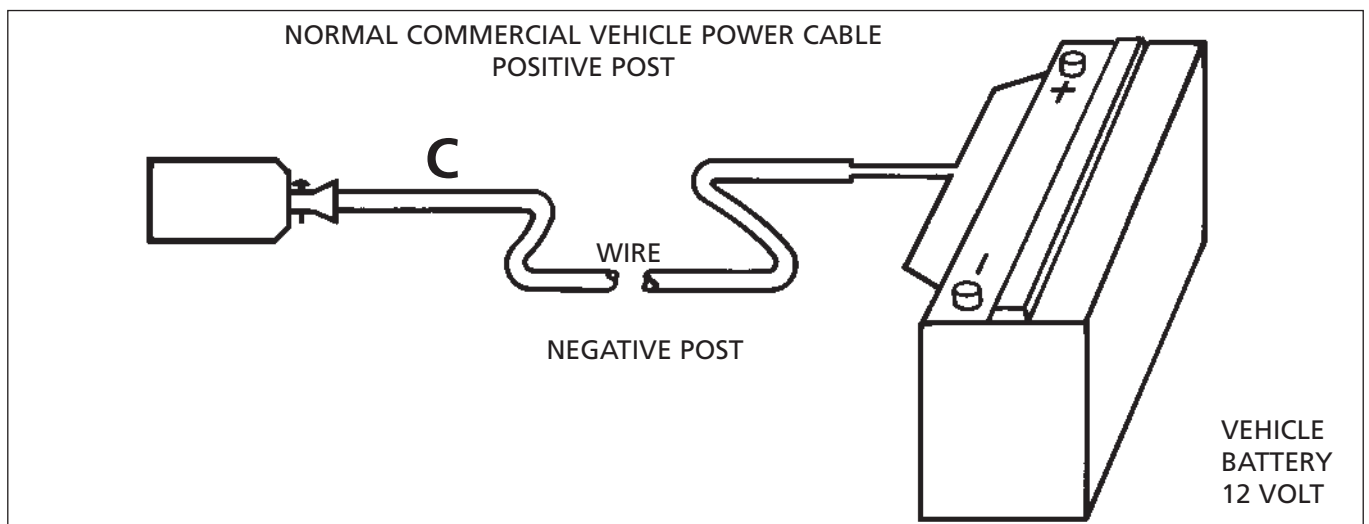
1. Outside large terminal positive.
2. Centre post negative.
3. Not used.

C. Wire Size

14 Gauge.

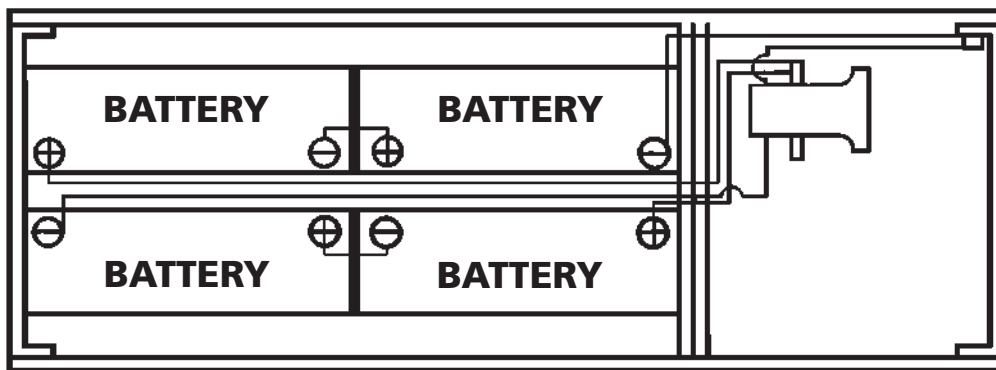
CHARGING THE BATTERY

The battery can be recharged overnight by using a PowerMate 4 Amp automatic shut off battery charger or by connecting the battery of the PowerMate to the battery of the delivery vehicle using the charging lead and charger adaptor plug.



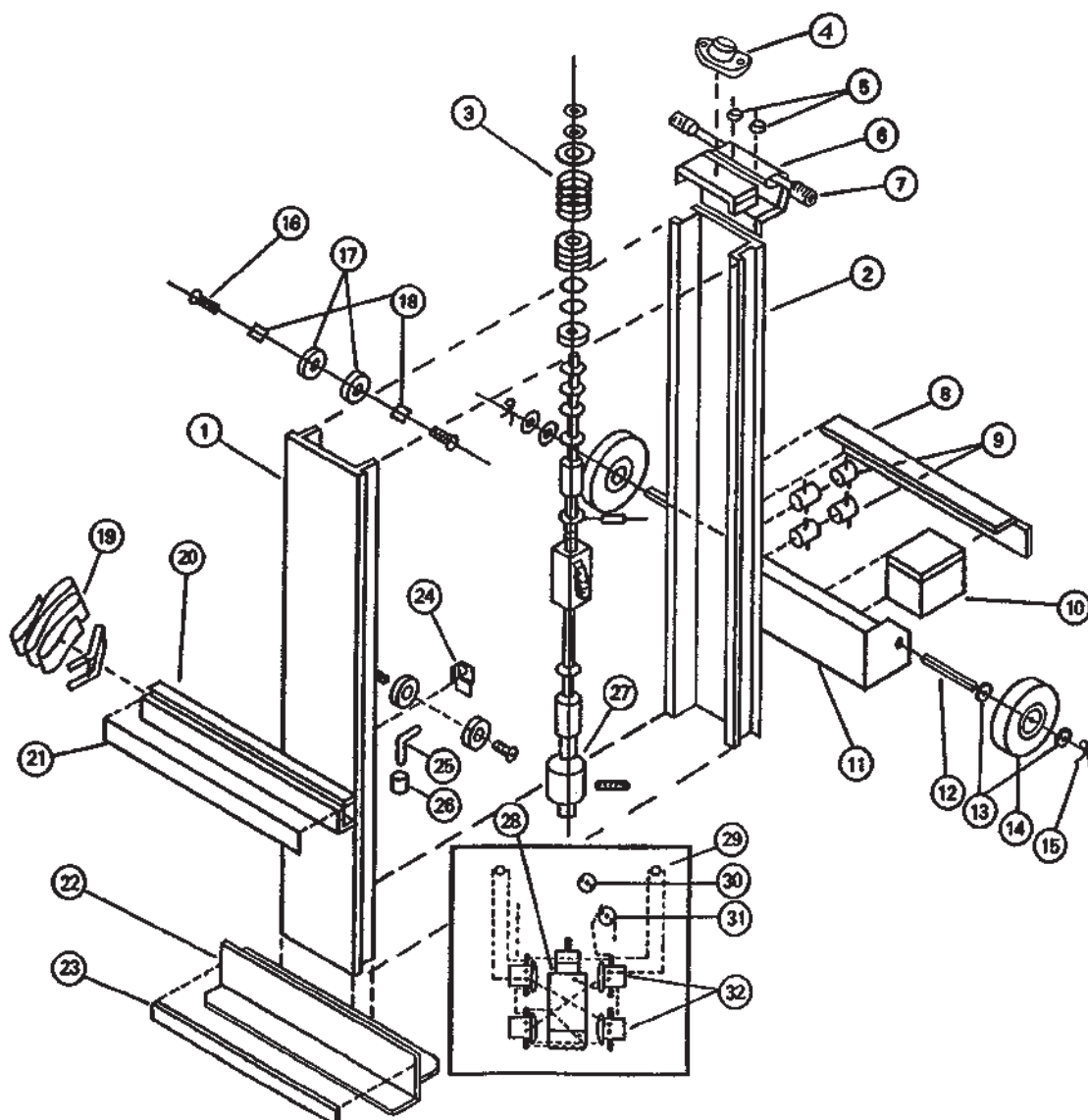
PROCEDURE FOR THE INSTALLATION OF SEALED BATTERIES IN POWERMATE L SERIES

1. Remove battery cover on the aluminium machine using a large flat head screwdriver and hammer.
2. Remove wheels and axle.
3. Install 1" styrofoam top and bottom of battery enclosure.
4. Install batteries with the terminals positioned as per diagram below.
5. Install 3/4" styrofoam between batteries top and bottom.
6. Install 3/4" styrofoam between solenoids and batteries.
7. Connect the 16" and 10" positive wires to the batteries and then connect to the top post on the solenoid as per diagram.
8. Connect the 20" and 10" ground wires to the batteries and to the bolt on the axle support bracket.
9. Tape over all battery connections.
10. Replace axle, battery cover and wheels.



INNER AND OUTER FRAME ASSEMBLIES

KEY NO.	DESCRIPTION	PART NO.	KEY NO.	DESCRIPTION	PART NO.
1	Outer Frame	11010	17	Roller Wheels	5525
2	Inner Frame	11011	18	Inner Frame Axle	11029
3	Drive Screw Assembly	31001	19	10' Strap & Toggle	31053
4	Brake Cover	11045	20	Strapbar	11013
5	Electric Switches	5021	21	Felt	10196
6	Handle Housing	11005	22	Toeplate	11014
7	Handles	11026	23	Felt	10196
8	Battery Box Cover	11016	24	Strapbar Connector	11002
9	Solenoids	5027	25	Cam Handle	10211
10	Battery	5138	26	Cam	10004
11	Battery Box	11017	27	Half Coupling c/w Sprocket	300084
12	Wheel Axle	11031	28	Motor	300061
13	Plate Washers	5004	29	Electric Switches	5021
14	Wheels	5523	30	Charger Adaptor Flange	5038
15	Cotter Pin	5011	31	Charger Adaptor Plug	5039
16	Axle Bolts	5072	32	Solenoids	5027



DRIVE SCREW ASSEMBLY PT NO 31001

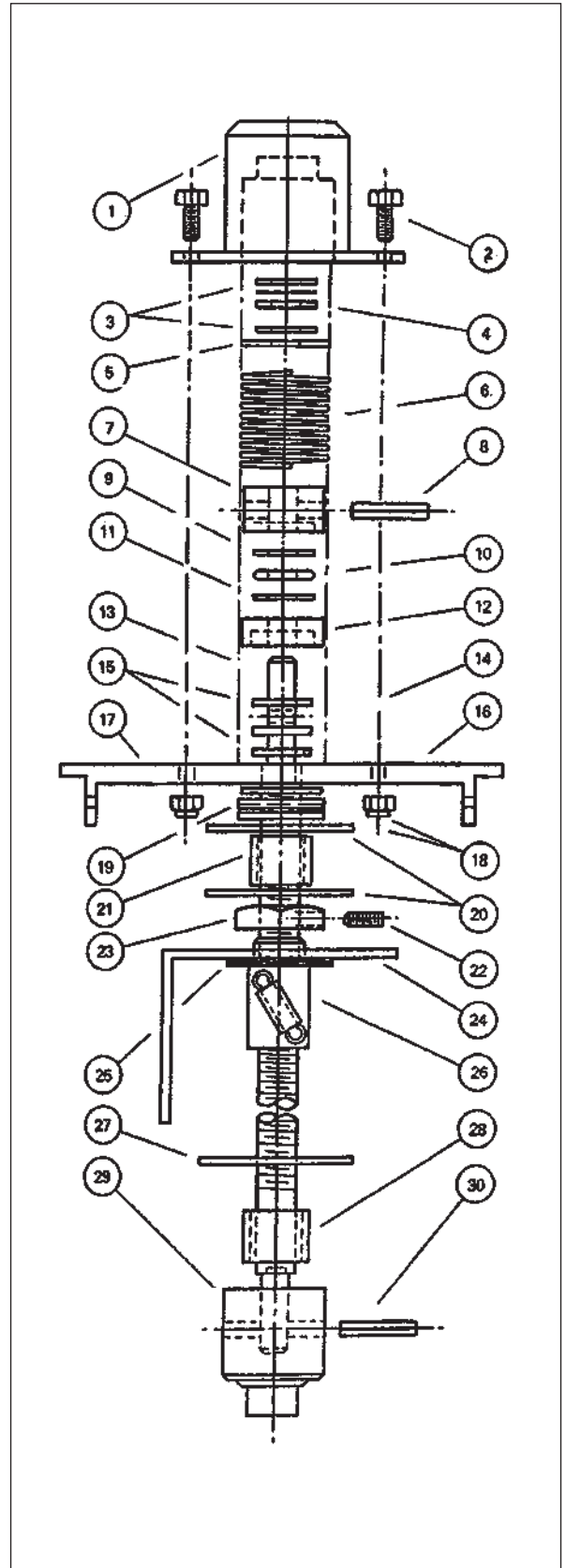
Parts List

KEY NO.	DESCRIPTION	PART NO.
1	Brake Cover	10045
2	1/4" x 1 1/2" Hex Cap Screw	5073
†3	Bronze Washer	5084
†4	Thrust Washer 3/32" to 1/8"	5014
†5	Spring Retainer Washer	5079
†6	Spring Brake	5080
†7	Top Press Washer	5082
†8	3/16" x 1 1/8" Spring Pin	5168
†9	Thrust Washer 1/32"	5081
†10	Thrust Bearing	5012
†11	Thrust Washer 1/32"	5081
†12	Bottom Press Washer	5085
13	5/8" Drive Screw L-1, 5/8" Drive Screw L-2,	10204 11022
†14	Thrust Washer 1/16"	5092
†15	Bronze Washer	5084
16	Bearing Retainer	31007
17	1/4" Locknuts	5061
*18	Thrust Washer 1/16"	5092
*19	Thrust Bearing	5012
*20	5/8" Plate Washer	5004
21	Urethane Bumper	10070
22	1/4" x 5/16" Set Screw	5055
23	Ballnut Locknut	10107
24	Ballnut Bracket	31055
*25	Ballnut Washer	5094
26	Ballnut	5017
27	5/8" Plate Washer	5004
28	Urethane Bumper	10070
29	Coupling	30084
30	3/16" x 1 1/8" Spring Pin	5093

† * Only available in kit form see below.

* **OVERRIDE BEARING KIT: PT No 40016**
2 of No 18, 1 of No 19, 1 of No 20, and 1 of No 25

† **BRAKE ASSEMBLY KIT: PT No 40015**
including items 3 to 15 excluding No 13



REPAIRING THE DRIVE SCREW ASSEMBLY

NOTE: Read all instructions carefully before attempting to make repairs to any part of the drive screw assembly. For override bearing installation of ballnut replacement, the outside frame must first be removed.

Procedure To Dismantle Machine

1. Remove toe plate (4 bolts) from outside frame
2. Remove bearing retainer (2 bolts) from inside frame.
3. Slide frames apart, then follow brake assembly procedure, override bearing kit Installation and/or ballnut - screw removal instructions.

Brake Assembly Replacement

NOTE: For override bearing installation or ballnut replacement, the outside frame must first be removed.

1. Remove brake cover and components 3, 4, 5 & 6.
2. Drive out spring pin and remove 7, 9, 10, 11, 12, 13, 14 & 15.
3. Replace components in reverse order, place a few drops of light machine oil on roller bearing before replacing cover.

Do not lubricate bronze sections of brake assembly.

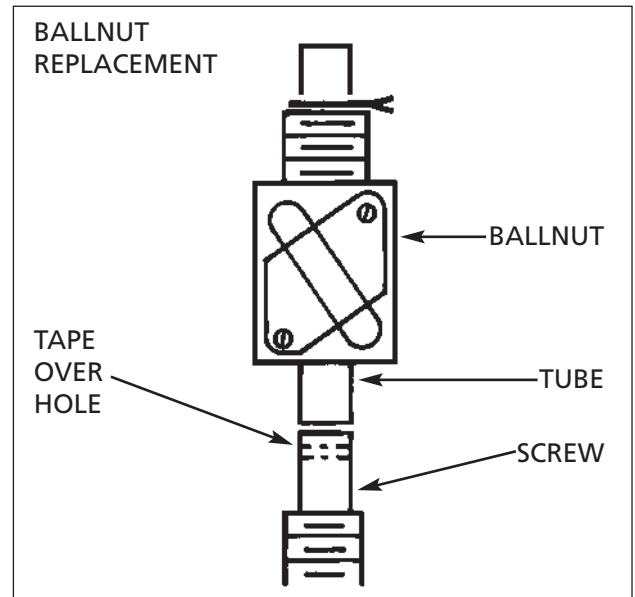
4. Re-assemble frame sections of the machine.

Installation of Override Bearing Kit, Ballnut or Screw Replacement.

1. Remove screw by following procedures 1, 2 above and then undoing the ballnut locknut. Then either replace screw or install override Bearing Kit Part 25 and replace screw.

NOTE: Do not remove ballnut from screw unless it is to be replaced. Tape, placed on screw, will stop ballnut from free wheeling and prevent accidental removal. For ballnut replacement see following column.

2. Replace parts in their original order and follow assembly instructions



Ballnut Replacement

1. Remove old ballnut.
2. Place tape over hole in top of screw.
3. Remove clamp from non-threaded end of new ballnut.

NOTE: Do not remove tube from centre of ballnut.

4. With threaded portion at top, place tube in line with top of screw and carefully slide ballnut on to screw.
5. Thread ballnut down screw, place a few drops of light machine oil in ballnut. Tape will stop ballnut from free wheeling and prevent accidental removal.

Procedure to Reassemble Machine

1. Extend screw beyond end of frame before assembling.
2. Slide outside frame on to inside frame so that the coupling will be connected to the drive motor.
3. Bolt bearing retainer and replace toe plate.
4. Adjust ballnut locknut properly. Tighten ballnut locknut hand tight only, then tighten set screw.

NOTE: Ballnut assembly must spin in bracket when machine is run to limit in either direction.

TO ENJOY TROUBLE FREE POWERMATE OPERATIONS REMEMBER THE FOLLOWING:

1. Keep the battery fully charged.
2. Follow the maintenance schedule and specifically keep the drive screw clean and oiled with a light machine oil.
3. PowerMate equipment is designed to take advantage of balance and leverage principles. Work performed will be easier and safer when the load is maintained in a well balanced position. Operator should determine the balance point of unfamiliar loads prior to moving them.
4. New operators should practice moving light load. i.e. 250lb (113kg) with a medium centre of gravity before progressing to moving heavy loads.
5. Never unstrap the load with the wheels up.
6. Do not compress top or bottom red bumper under load.
7. Ensure that the ballnut is properly adjusted.
8. Keep both hands on the handles when operating.
9. When climbing stairs,
 - (a) Keep wheels at the back of stair tread.
 - (b) Keep heel of machine backed at least 2in from the nose of the stair.
10. It is essential that PowerMate is subject to twice yearly inspections as prescribed under **LOLER** regulations so that the user/owner is seen to conform with Health & Safety legislation. For details contact the Stanley Handling service department.



EC DECLARATION OF CONFORMITY FOR MACHINERY

(Directive 89/392/EEC, Annex II, sub A)

Stanley Handling Limited herewith declares that the described machine is in conformity with the provisions of the Machinery Directive (Directive 89/392/EEC), as amended, and with national implementing legislation. In the event of a modification without our acceptance this declaration loses its validity.

Description of the machine:

PowerMate stairclimber

Type:

L Series

Serial number:

EEC- Directive:

Machinery Directive (89/392/EEC, Annex II, sub A)

Harmonised standards applied:

EN 292-1 und 292-2

Date/Supplier Signature:

Identification: