

LOADING VERTICAL ITEMS

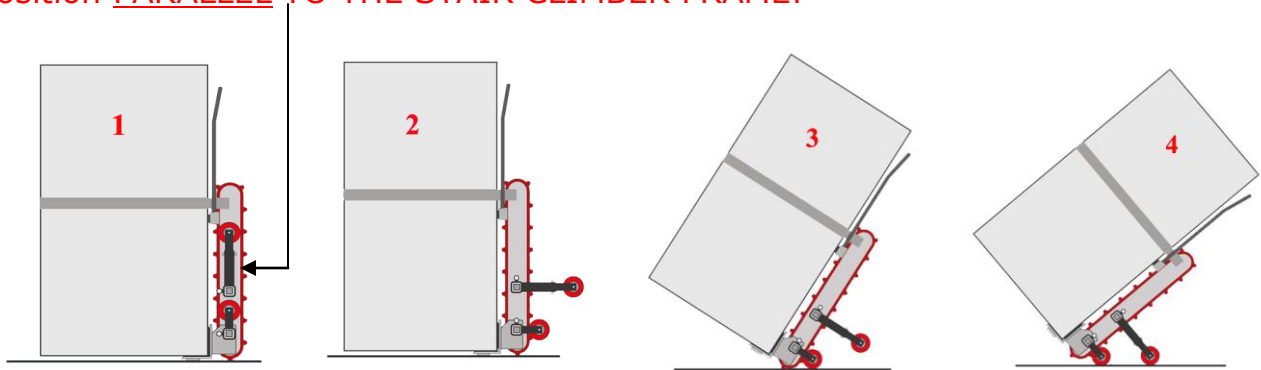
View 1. Insert toe plate of Stair Climber under edge of load.

View 2. Release locking pin from Quad Arms, one at a time. Remove Quad Arms then reposition perpendicular to the Stair Climber main frame as shown. Warning: Be certain the Quad Arms are securely locked in the new position.

View 3. Break the load back onto the first set of Quad Arm Wheels, as shown, where it will also be resting on the Treads of the Stair Climber.

View 4. Pull load back again until it rests on all 4 Quad Arms Wheels.

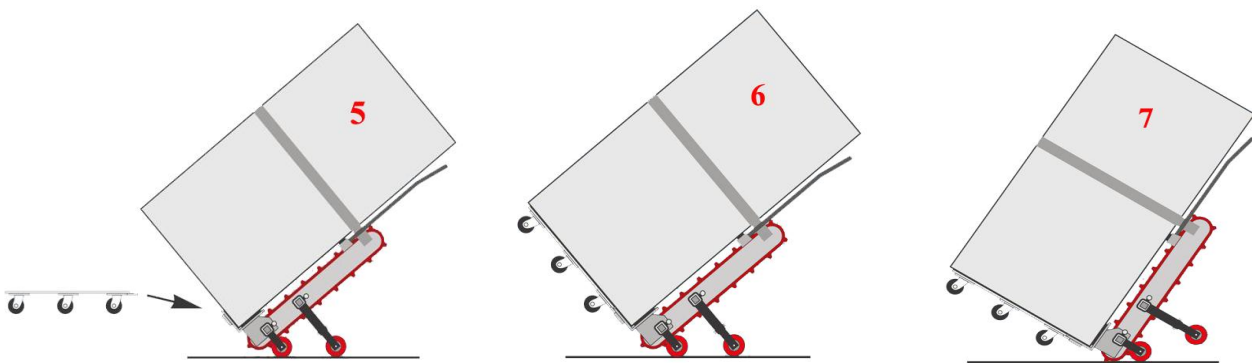
NOTE: It is extremely important that the operator NEVER attempts a stair move with any wheels touching the stairs. The Quad Arms must always be stowed in position PARALLEL TO THE STAIR CLIMBER FRAME!



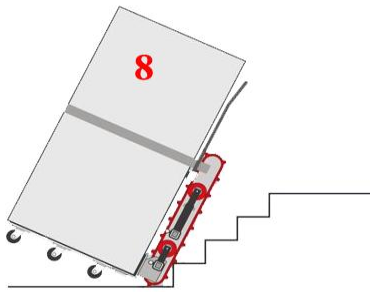
View 5. Insert Swivel Dolly prongs into receivers on the Toe Plate.

View 6. This shows the Swivel Dolly in place after the small bolts are finger tightened, thereby anchoring the Swivel Dolly to the Toe Plate. It is safe to place these bolts into place because the weight of the Load is balanced on the Quad Arms.

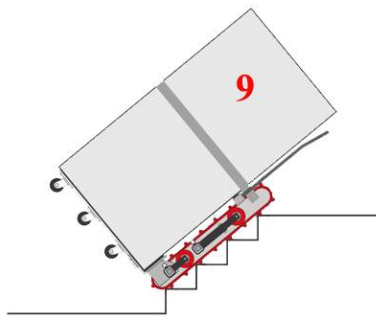
View 7. Partially upright the Load onto the first set of Quad Arms, bringing the Tread back into contact with the floor. In this position you can "Power" the Stair Climber in a forward or backward direction by pushing the power cord switch one way or the other. Because of the lugs on the Treads, the movement will have a slight up and down cam-like action that is called a "cam-walk".



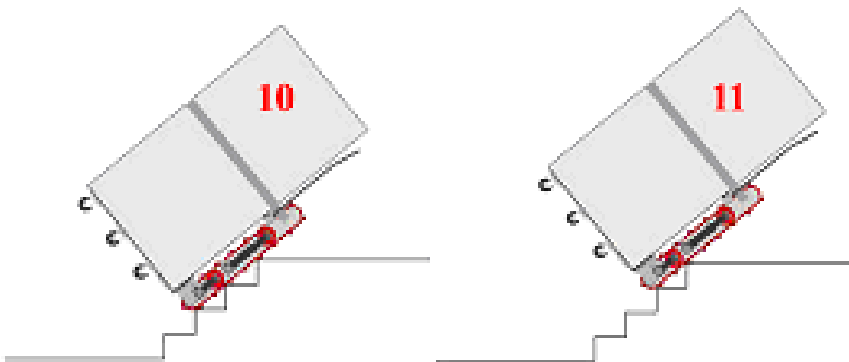
VERTICAL STAIR MOVE SEQUENCE



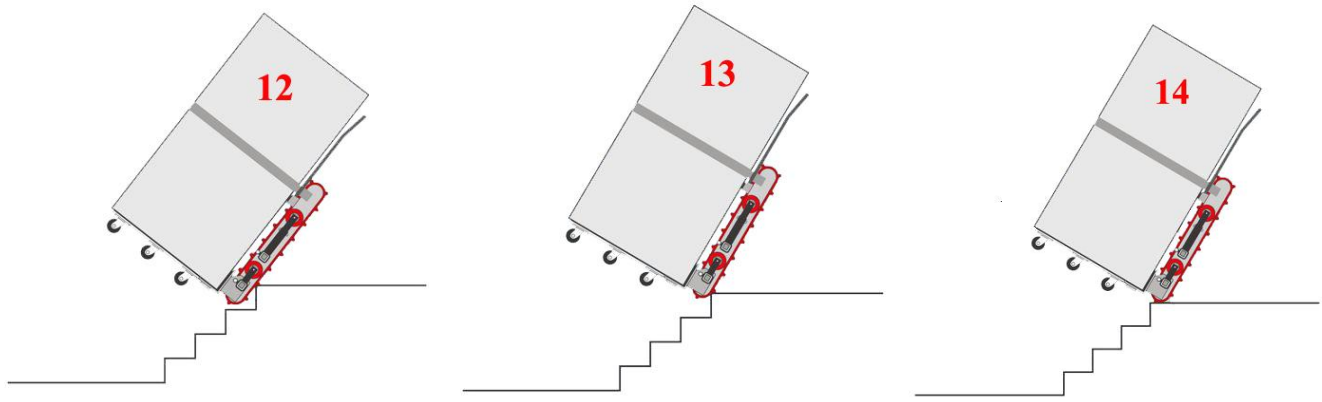
View 8. Once the operator has placed the Stair Climber in a vertical position at the foot of the stairs, he simply reverses the motor and the load will lean into the stairs and stop.



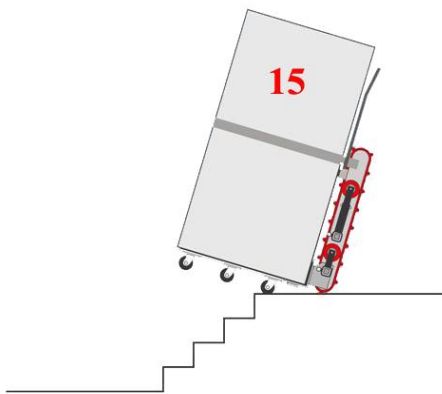
View 9. Next, the operator gives a slight tug on the safety strap. (The safety strap is attached to the ratcheted strap that secures the load to the Step Rider. The safety strap is then brought up over the top of the load so that the operator may hold it as he does the move. The strap does not show in drawing.) The entire load will lay itself gently onto the stairs and the operator can begin the stair climb.



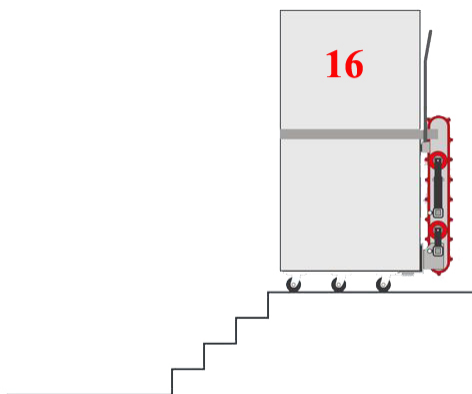
Views 10 and 11. As the operator reaches the top of the stairs he will begin to balance the load so that the nose does not dip down toward the stairs.



Views 12, 13 and 14. Here the operator must nose the load up slightly and maintain the balance as he “cam-walk” the load onto the landing. This is easy to do; there is practically no weight on the operator. The gentle “cam-walk” action makes a slight up and down movement, and the operator should continue the “cam-walk” until he feels 5 of those movements.



View 15. The operator up-rights the load onto the first row of casters ONLY, because the rest of the Swivel Dolly is still hanging out over the staircase. If the operator feels more secure, and has the space, he can continue the “cam-walk” until the entire Swivel Dolly is above the landing before up-righting the unit.

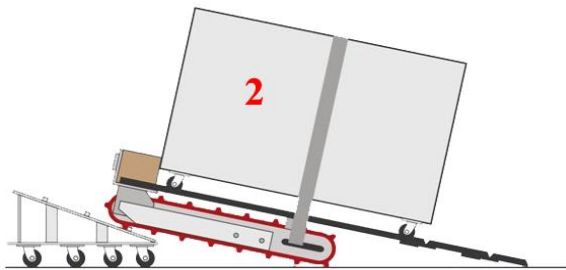


View 16. Here, the operator has completely up-righted the load, which is back in a vertical position and resting on the Swivel Dolly. It can then be rolled to its final placement position, or placed at the foot of the next flight of stairs.

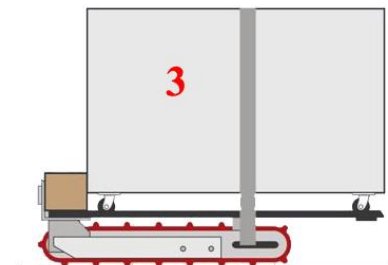
LOADING LONG HORIZONTAL ITEMS



View 1. For loads that are longer than the Stair Climber, use a loading ramp that then becomes a platform for the load to rest upon during the move. This view shows the Stair Climber resting on the lower part of the Angle Dolly, thereby tilting the loading ramp for ease in loading. (The Ramp Board is not shown in this drawing.)

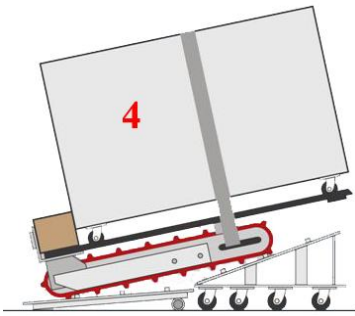


View 2. Notice the wooden block in front of the load. This was done to adjust the center of gravity. Depending on the weight distribution in the load being moved, the operator may add more blocks or may not need any.

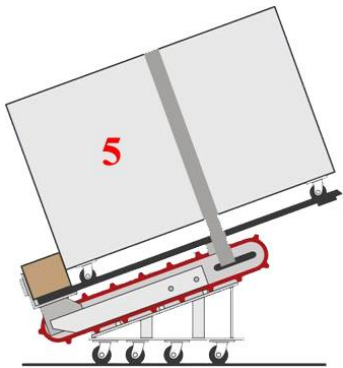


View 3. Here the stair climber is flat on the floor after having crawled down from the Angle Dolly.

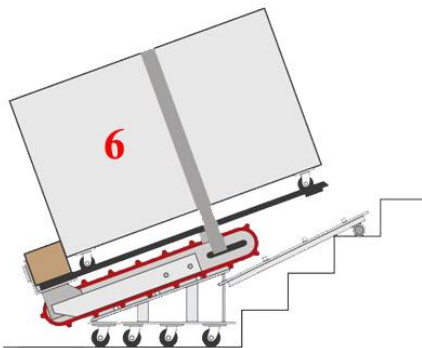
HORIZONTAL STAIR MOVE SEQUENCE



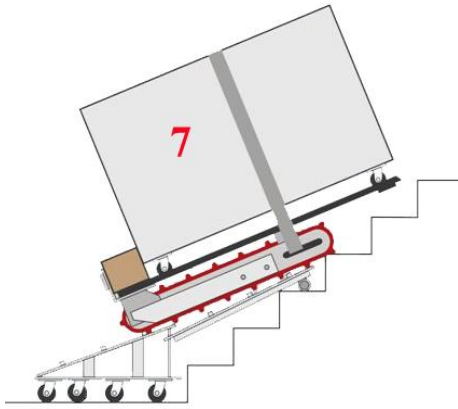
View 4. With the load securely strapped to the Stair Climber, position the Ramp Plate on the Angle Dolly, and then crawl the Stair Climber onto the Angle Dolly.



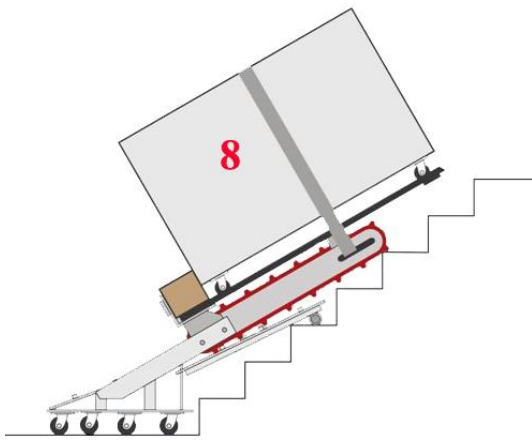
View 5. Here the Stair climber is positioned perfectly.



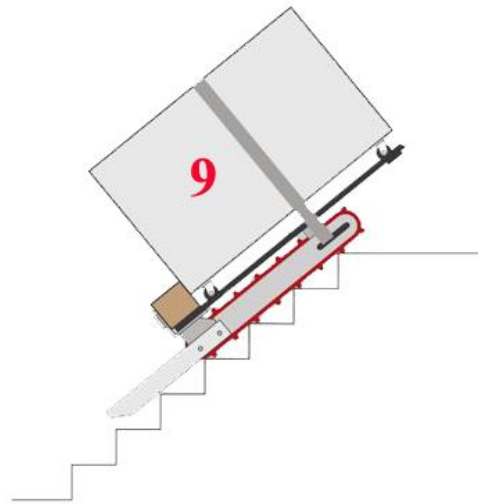
View 6. Roll the load to the foot of the stairs and place the narrow end of the Ramp Plate in the slot at the top end of the Angle Dolly, and rest the top of the Ramp Plate on the step as shown.



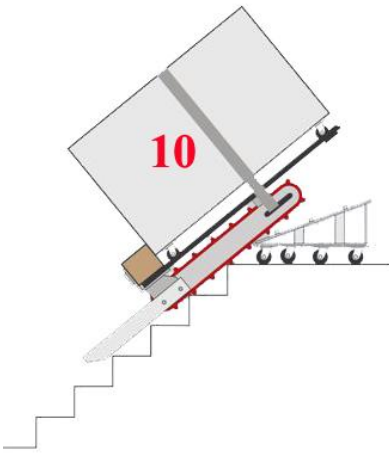
View 7. Crawl the load up onto the Ramp Plate.



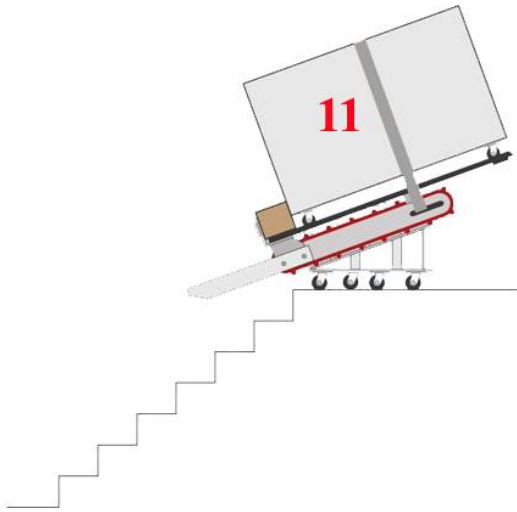
View 8. Crawl the load from the ramp plate onto the stairs.



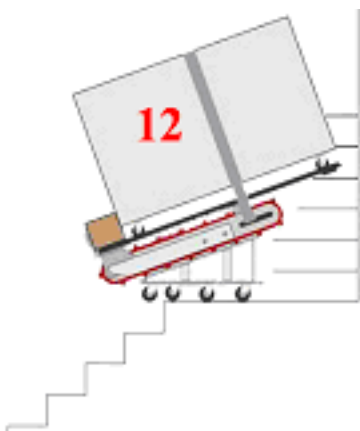
View 9. Continue the climb until you reach the top of the stairs.



View 10. Position the Angle Dolly at the top of the stairs to receive the Stair Climber.



View 11. Climb up onto the Angle Dolly.



View 12. If the landing is too small, the operator can allow the last row of Casters to hang out over the staircase in order to start the turn for the next landing. Remember that the center of gravity shifted forward when the operator adjusted the weight distribution by inserting the wooden block in front of the load. Now, that center of gravity point is resting solidly on the Angle Dolly over the landing. A very small amount of weight is over that last row of casters.

LO BOX

ING CURRENT (AC)
NT (DC)

Operation using AC only. (1) Make sure the Inverter Switch is in off position. (2) Plug the male end of the power cord into an extension cord and then into wall socket.

Operation using DC only. (1) Turn Power Inverter Switch to "ON" position. (2) Plug the male and female ends together.

Note: EXTENSION CORD MUST BE 16 GA. OR HEAVIER.



Male Plug



Female Plug

SWITCH



This machine is equipped with a simple toggle switch for forward and reverse operation. It automatically returns to NEUTRAL when operator releases it.

Do not reverse the motor instantly from one direction to the other; allow a moment for the motor to rest before changing its direction.

Failure to do this will result in severe arcing and may burn the contacts of the reversing switch and motor.

POWER CORD

Switch Power Cord should be pulled through the rectangular hole on side of the Step Rider frame, to whichever side is convenient, for control of the job at hand.

Note: Keep power cord and extension cord out from under the treads of the Step Rider, You will cut or pull the cord off the unit.

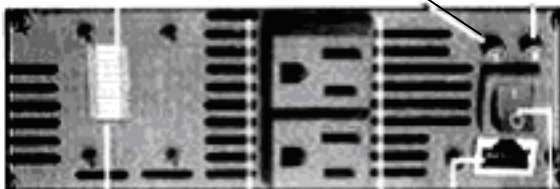
OPERATE POWER INVERTER

To Operate the Power Inverter for DC power, turn switch ON as shown below. Leave switch in OFF position for AC power use, when CHARGING BATTERIES, and when machine is **NOT IN USE**.

DO NOT LEAVE SWITCH ON WHEN STORING MACHINE.

Red Fault LED Indicator will come on if battery is low. The inverter may make a loud ringing sound.

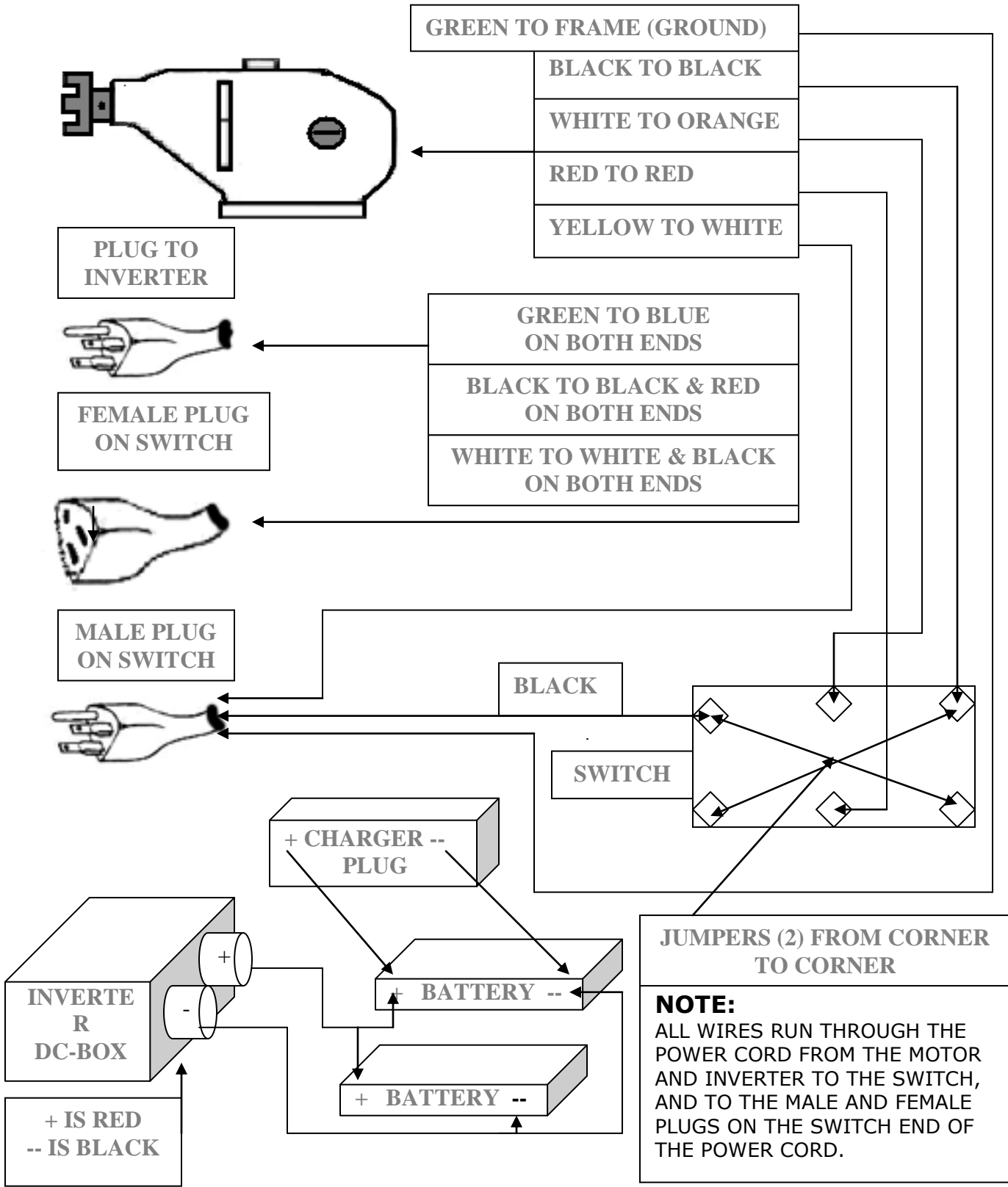
Green power LED Indicator means you have power to the Inverter and it is working.



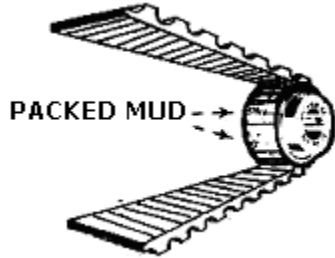
Green Power LED
Red Fault LED

ON / OFF Power Switch

ELECTRICAL WIRING DIAGRAM

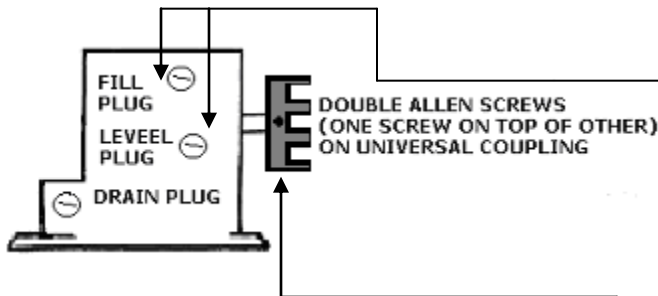


MAINTENANCE AND SERVICE



MUD and dirt can accumulate on the inside of the treads, and may pack hard in the splines of the pulley. It is possible, though highly unlikely, that the build up would force the tread off the sprocket.

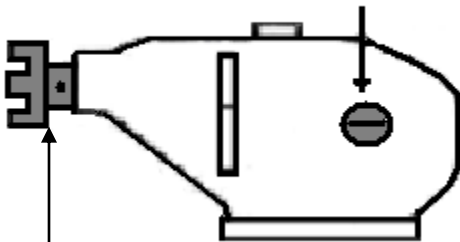
Occasionally inspect the pulleys and treads for the condition. If the tread walks off the pulley this may cause the tread to be cut on the pulley edge, or to stretch. If this occurs you may have to replace the treads.



THE GEAR BOX REDUCER has been properly lubed at the factory. It should need attention only if there are signs of excessive oil leakage.

To add oil, remove the fill plug and the level plug on the side of the gearbox housing. Pour oil in the fill hole until it runs out of the level hole. Then replace both plugs.

MOTOR BRUSH



UNIVERSAL COUPLINGS- Check occasionally to maintain tightness of all Allen screws.

Two Allen screws are in each thread hole so you must remove the top locking screw to tighten the bottom one, on both the **MOTOR and GEAR REDUCER.**

ELECTRICAL MOTOR SPECIFICATIONS- The power source for the Step Rider is a heavy duty motor, 115v., and 7amps ½ H.P., speed 450 R.P.M. no load, and 425 R.P.M. loaded. **Motor Brushes** may be checked every year.

OPERATION IN PRESENCE OF WATER, MUD, OIL.

Remember that the **STEP RIDER** Motor and DC Power Inverter are electrical and will short out if they get wet.

(Do not run unit through puddles of water, mud, or oil, as this will void your WARRANTY.)

Grounding Instructions.

For your protection this machine is equipped with a 3-conductor cord and approved 3-blade grounding type plug in accordance with the National Electrical Code. Your extension cord also must have a grounding type connector.

NOTE: EXTENSION CORD MUST BE 16 GA. OR HEAVIER.

Ventilation.

Keep motor housing passages clear for cool running motor.

Accumulated dust may be blown out of the motor with an air jet.

Bearings.

All Bearings are sealed with lifetime lubrication.

Specifications for base unit

- Base unit weight 148 lbs.
- Base unit size 42"H x 25" W x 14" D.
- Base unit size 80"H x 25" W x 14" D. with handle extended.
- Power supply AC115v. DC12v.with two18 amp. Batteries.
- Gear box-continuous duty worm gear.
- Motor continuous duty ½ horse.
- Tread dimensions 84"x 4"x 1.5"
- Tread material one piece polyurethane & Kevlar.
- Mainframe material one-piece cast aluminum.
- Load spreads on stairs over 3 to 4 steps with 6 contact points that are 4" wide (the width of the tread).
- Heavy-duty steel toe plate.
- Heavy-duty cast aluminum front support.
- Heavy-duty 6" transport wheels.
- Heavy-duty steel handle (Not Designed for break back).

NOTE: New Models come equipped with a one-piece "rack" which replaces the toe plate, and front support.
(Not pictured.)



WARNINGS:

- Only persons who have read the Operations Manual and have viewed the training video should operate this equipment.
- It is essential that the stairs are clear while machine is being operated. **(No one should be on the stairs below the load)**
- It is imperative that the lugs on the treads line up with the top edge of the landing before descending the Stairs. (The video shows this in detail.)
- Always make sure the Step Rider's Power Inverter is turned off when not in use.
- Never use the machine in a way it is not designed for.
- Always disconnect the electrical supply due to the hazard of electricity.
- The Step Rider Machine requires a **Two Man Team** at all times, one to operate and the other to assist.

NOTE: It is extremely important that the operator NEVER attempts a stair move with any wheels touching the stairs. The Quad Arms must always be stowed in position PARALLEL TO THE STAIR CLIMBER FRAME!

SPECIFICATIONS: MAXIMUM LIFT FOR STAIR MOVING

- Model 1800 Vertical Stair Climbing Maximum Lift is 1800 lbs.
- Model 1800 Horizontal Stair Climbing Maximum Lift is 2400 lbs.
- Model 3000 Vertical Stair Climbing Maximum Lift is 2400 lbs.
- Model 3000 Horizontal Stair Climbing Maximum Lift is 2750 lbs.

DOLLY ATTACHMENTS



SWIVEL DOLLY

The swivel dolly is used so operator can turn the load on its own axis on the landing and align for the next flight of stairs.

THIS DOLLY IS FOR VERTICAL TYPE LOADS



ANGLE DOLLY & RAMP PLATE

The angle dolly works with the ramp plate for moving heavy, short or wheeled type loads on small landings.

THIS DOLLY IS FOR HORIZONTAL TYPE LOADS



WARRANTY FOR ALL MODEL STAIR CLIMBERS

We warrant each machine to be free from defects in materials and workmanship under normal conditions of use and service for a period of five years

Our obligation under this warranty is limited to making good at our factory any part (except treads, power cord and switch, on which our warranty is limited to 90 days, and also except swivel casters which have a 30 day warranty) which, within five years after delivery to the original purchaser, is returned to our factory with transportation charges prepaid, and which our examination shows to our satisfaction to be defective. Shipment to us must be made under a Returned Goods Authorization (RGA) number and such number shall be obtained from us prior to any shipment to us. We expressly deny any power or authority on the part of any person to incur or assume for us any liability in connection with the sale of any machine manufactured by us.

This Warranty shall not apply to any machine, which has been repaired or altered outside our factory. Nor shall it apply to any machine, which has been subject to misuse, negligence or accident, or has been operated contrary to our instructions.

Under no circumstances shall we be liable for any consequential damages or any losses or damages resulting from a defect of the machine.

We make no warranty whatsoever in respect to accessories attached to our machines which have been made by other manufacturers whether or not warranted by such other manufacturers.

This Warrant is made in lieu of all other warranties, express or implied.