FRANKLINWH

FranklinWH Lifting Dolly Users Manual

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FranklinWH Lifting Dolly

Users Manual

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FranklinWH Lifting Dolly Specifications

FranklinWH Lifting Dolly is used to transport aPower batteries to installation sites.

Specifications

Weight	79.4 lbs. (36kg)
Rated load	407.8 lbs. (185 kg)
Dolly Dimensions	57.6 in x 19.3 in x 24.2 in (1465 mm x 490 mm x 615 mm)
Maximum Install Height	33.5 in. (850 mm)
Maximum Lift Capacity	551.2 lbs. (250 kg)
Lifting Mechanism	Sprockets
Lifting Power Source	Drill
Wheel Type	Pneumatic tires (compatible with solid tire)
Model Number	ACCY-LiDollyV1
Operating Temperature	-4°F to 122°F (-20°C to 50°C)

Instructions for safe operation

⚠ WARNING

Don't use an impact driver, always set drill clutch to the lowest functional setting.

⚠ WARNING

To prevent damage, stop the drill when platform reaches max/min heights.

⚠ WARNING

Hold the dolly handle during lifting to stabilize it.

⚠ WARNING

Do not leave a lift with a raised aPower unattended.

⚠ WARNING

Safety Strap Operation: Before lifting or moving the aPower, always secure the aPower to the lifting dolly using the provided safety strap to prevent the aPower from tipping or falling.

⚠ WARNING

Handling: Ensure that the platform is lowered to the bottom of the lift during aPower transportation.

⚠ WARNING

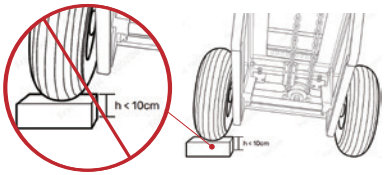
Lifting: Do not place your hands or feet under the platform to prevent injury.

WARNING

Lifting Operation: Ensure that the lifting dolly remains upright on hard, level ground; soft ground or slopes may pose a risk of tipping.

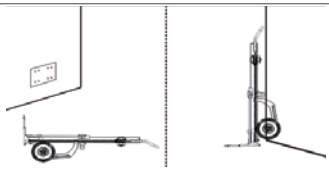
WARNING

Do not operate the lifting dolly on surfaces where the height difference between the two wheels exceeds 4" (10 cm), as there is a risk of tipping.



WARNING

Out of Operation: Stand against a wall or lay flat.



WARNING

When lifting the dolly with an electric screwdriver, do not use extension sockets.

WARNING

Before operating the lifting dolly, set the drill to the lowest gear.

WARNING

Before use, inspect the lifting dolly. Do not use if any part is damaged or if there is a malfunction.

WARNING

Always wear appropriate PPE, including safety shoes.

WARNING

Raising an aPower for installation requires two people for safety.

WARNING

Overloading can cause damage or failure.

WARNING

Do not use dolly for descending stairs or into basements with multiple levels. For this scenario, a professional climbing machine is recommended.

WARNING

Do not leave outdoors, store indoors.

WARNING

Stop using the dolly when any of the following conditions occur: damage to the fall arrester wire rope, deformation of the chain, jamming or rattling of the hoist, deformation of the dolly's vertical beams, or any other malfunctions or deformations.

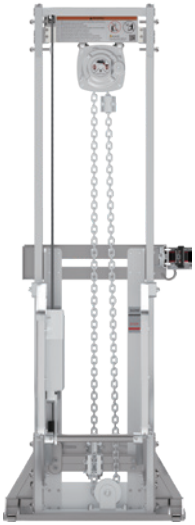
Parts & Assembly

Accessories

List	Pcs	Picture
Users Manual	1	
Allen wrench	1	
Tire Pump	1	
M8 × 45 hex socket set screws	12 (2 spares)	

Product Parts

The main components of the forklift include the handle, tire-bow-beam assembly, and the main frame, as shown, which need to be assembled using the supplied bolts.

List	Unit	Picture
Handle	1	
Tire-bow-beam assembly	1	
Main Frame	1	

Assembly

The lifting dolly assembly process is as follows:

Step 1

Place the handrail in the top of the frame, as shown in Figure 1, then fasten the handrail to the frame with four of the provided hex screws in the positions indicated in Figure 2.

Figure 1

Figure 2

Notes: Before installing a screw, manually assemble the screw with the spring washer and flat washer components first.

Step 2

Secure the tire-bow-beam assembly to the underside of the main frame with provided hex screws at the locations shown by the arrows in Figures 3, 4, and 5.

Figure 3

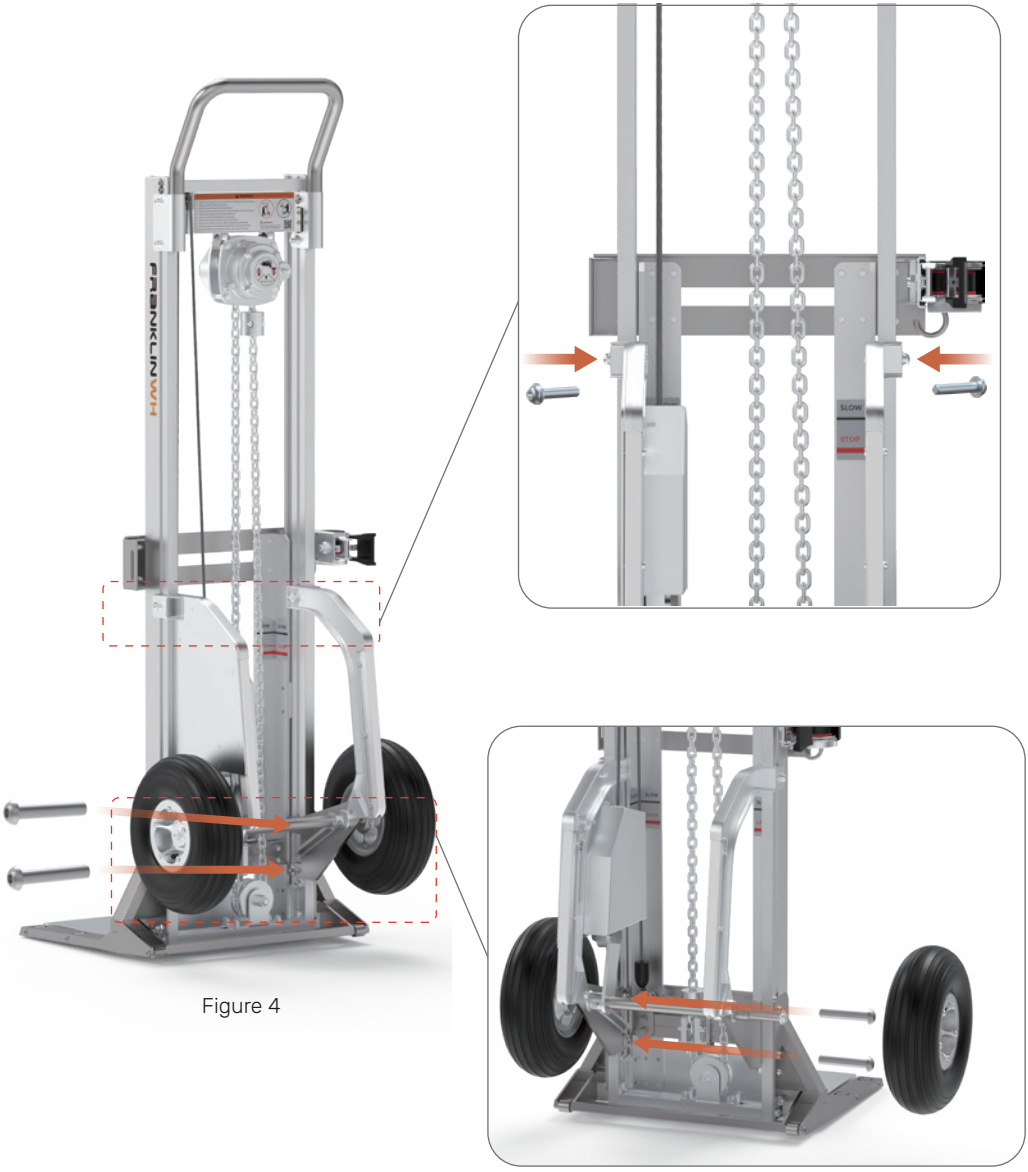


Figure 4

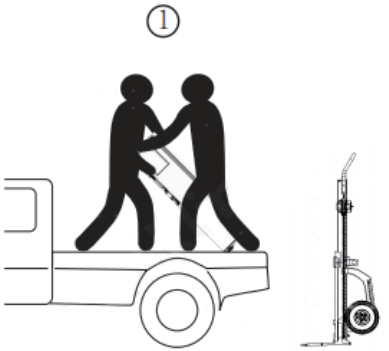
Figure 5

Operations with aPower

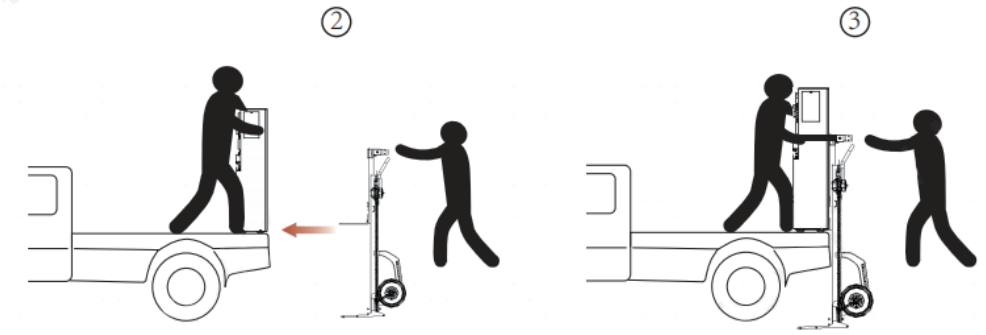
Using the lift dolly with an aPower, includes three main scenarios: loading, moving, and mounting.

Loading an aPower

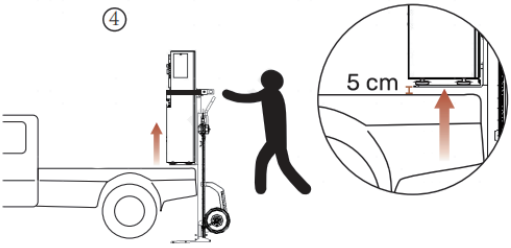
a) Carefully check the lifting dolly to ensure screws are tight and all mechanisms are in working order. Unbox the aPower and, with two people working in tandem, place the aPower vertically of the transport (with the logo facing up).

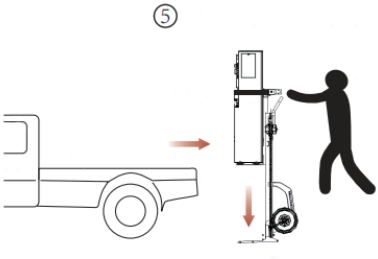


b) One person raises the platform of the dolly to the bottom position of the aPower and inserts it, and one person uses straps to tighten the aPower (if the dolly is not raised high enough, pallet can be used at the bottom of lift to pad the height).



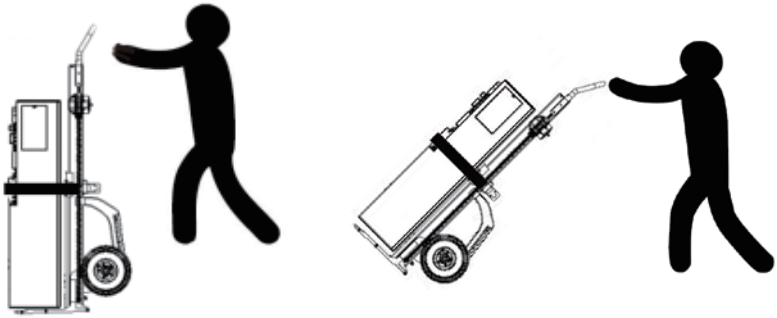
c) Use the lift to raise aPower by about 2 in. (5cm). One person pulls the dolly backward until the aPower is completely detached from the transportation; then lower the aPower to the bottom to move the aPower.





Moving an aPower

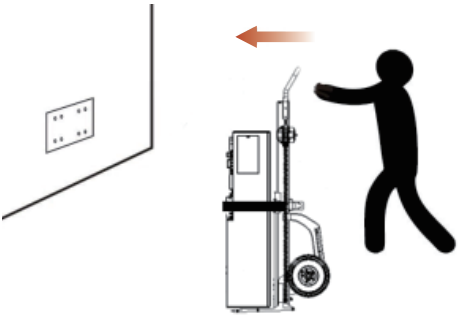
Press down on the handle to move the cart to carry the aPower to the installation site.



Mounting an aPower

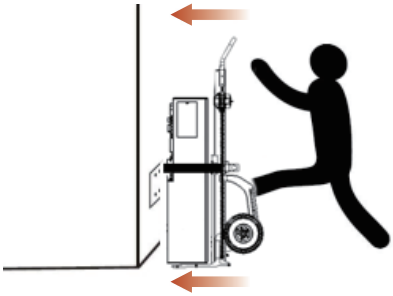
01

Move the aPower close to the installation location.



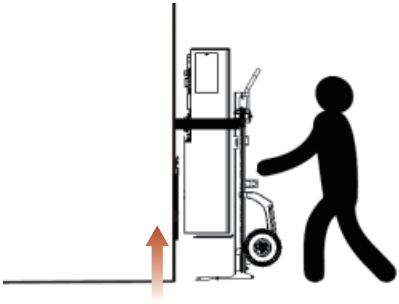
02

Adjust the position of the dolly so that the aPower is aligned with the mounting bracket.



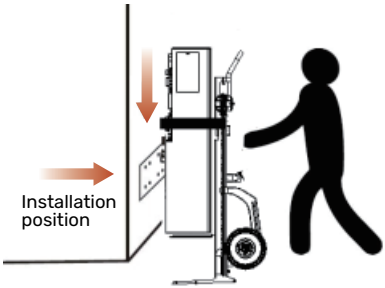
03

Keeping the dolly and aPower upright, use an electrical drill to turn the lifting mechanism to raise the aPower until the top mounting cleat on the back of the aPower is slightly above the top of the mounting bracket (should not be more than 19.7 inches in height).



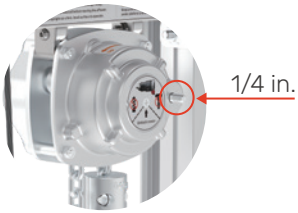
04

Adjust the lift height until the mounting bracket is aligned. When the aPower is aligned with the mounting bracket, slowly lower the platform. After confirming that the alignment is correct, lower the aPower onto the mounting bracket. Finally, release the harness (see steps below for releasing the harness) and remove the dolly.



Notes:

Use a 1/4'' drive or a 1/4'' hex bit to operate the sprocket.



Don't use an impact driver, always set the clutch to its lowest functional setting to lifting dolly.

The recommended speed is 500-1000 r/min and the recommended torque is 3 ft-lbs (4 NM).

Safety Straps

01

Make sure the handle is in the unlocked position and press the red RELEASE button to stretch the webbing to the desired length.

02

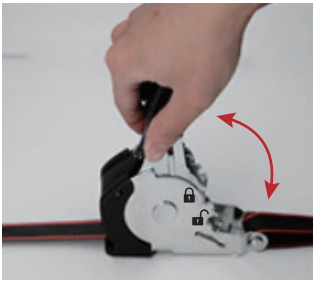
Release the RELEASE button to lock the webbing in place. If the stretched length is too long, press and hold the RELEASE button to automatically recycle the webbing length.

03

Press the RELEASE button and lift up to pull the handle to the locked position.

04

Lift and lower repeatedly to tighten the straps.



05

Press the RELEASE button after the webbing has been tightened around the aPower and push the handle to the unlocked position.

Notes:

1. When releasing the straps, make sure that the aPower is no longer dependent on the straps so that it does not fall and injure personnel. If necessary, use a sling to lift the aPower before releasing the tie-down straps to avoid accidents.
2. When unloading the aPower, make sure that the tie-down straps have been loosened.
3. Avoid chemical corrosion when using the straps. Note that the effect of chemical corrosion increases as the temperature increases. When storing, keep away from children, high temperatures, and corrosive chemicals.
4. Stop using the strapping in the following cases:
    a. Unable to recognize the label.
    b. Accidental contact with chemicals.
    c. Tears, cuts, slits, breaks, deformation at high temperature in webbing and stitching.
    d. Deformation, cracks, visible wear, corrosion, rust on connecting parts (hooks, loops) and tightening devices (ratchets, buckles).
5. Pay attention so that the straps are not damaged by sharp edges and corners of the items. Check visually before and after each use.
6. Use only straps with clear and distinctive markings. When using straps, keep the webbing flat and free from twists and knots.
7. Do not apply more than the specified force to the handle. The maximum force applied to the handle should not exceed 500 N (50 kg). Do not use other tools such as rods, bars, etc. to apply force if they are not part of the strap.
8. Protect the labels and keep them away from sharp edges and corners of the fastened objects, preferably without touching the objects.

Maintenance

1. Regularly check tires and inflate as necessary. The recommended tire pressure value: 36-43 PSI.

2. It is recommended that sprockets and lift guides be regularly greased, at least once a month.

3. If tire replacement is needed, use spacers.

   Solid Tire Axle Diameter: 5/8 in. (16mm) with ball bearings, Steel hub diameter: 10 in. (254mm).

   Gasket Type: ID=5/8 in. 16mm, OD=1-1/8 in. 28mm, thickness=0.1 in. (2.5mm).

4. Check the screws and other fasteners regularly to avoid accidents.

5. If you need to replace parts, contact service to purchase replacement:

   United States: +1 888-851-3188
   Australia: +61 1800 161 300

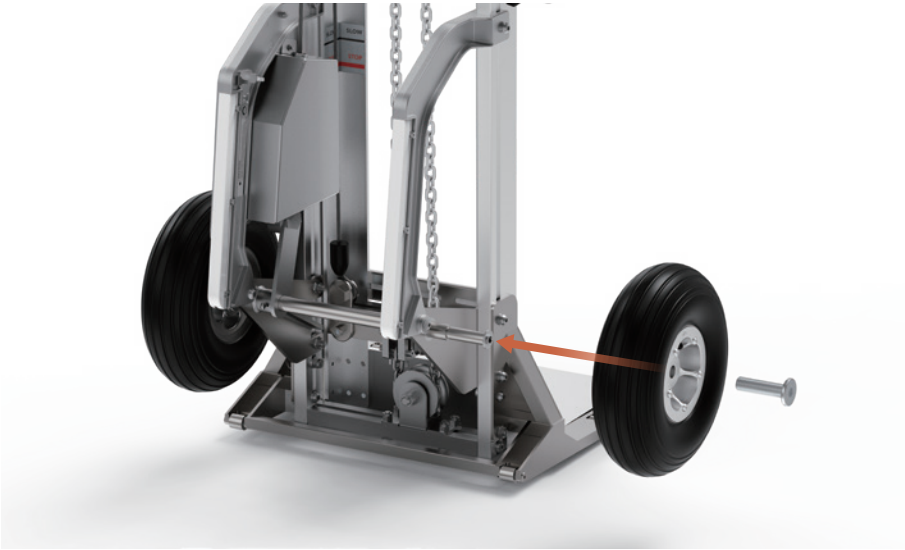
Instructions for Spare Parts Replacement

Strap Replacement:

Use M10 Allen wrench to remove the screw at the position shown in the illustration, replace the strap, and then tighten with the wrench. Torque requirement: 13±1.5 ft-lbf (18±2 NM).

Tire Replacement:

Replace the tires by removing the screw at the location shown in the illustration using an M8 Allen wrench, torque requirement: 9±0.75 ft-lbf (12±1 NM).



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