

WheelieSafe™ Bin Handling Systems

Manual Model Instructions for Use

Receipt of your WheelieSafe System

Upon receiving your Wheeliesafe System check that all the components of the system are present. (See sketch diagram on p.3)

Assembly

Because of its awkward shape the MANUAL trolley has to be slightly disassembled for transport. However, reassembly is quite simple and requires only a shifting spanner and a Phillips screwdriver, or two shifters.

The white brake clip may have become dislodged from the trolley handle bar during transport. Be sure to retrieve it from the packaging before it is discarded.

Once the trolley is removed from its carton it will appear as shown below:



Cut the two electrical ties and lift out the Handling Bracket and the Cargo Bar

Rotate the Third Wheel Assembly through 300 degrees so that it is at the rear of the trolley shafts. Undo the two nut, bolt and washer assemblies on the clamp arrangement and re-fit the clamp over the bar located at about the centre of the shafts, as shown in the illustration below:



Now attach the Cargo Bar to the drilled lugs on the lower section of the trolley's shafts, using the four bolt and nut assemblies provided. The assembled trolley should appear as shown below:

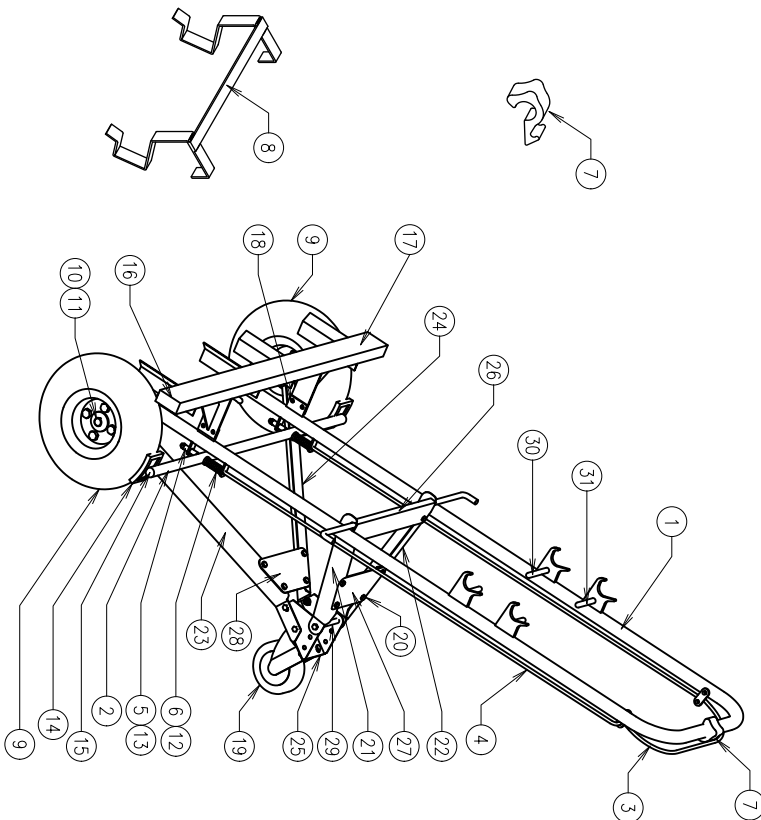


If you have any questions, please email info@wheeliesafe.com.au

The WheelieSafe Manual Bin Handling System

PARTS LIST:

- 1) FRAME (CHASSIS) - 1 OFF
- 2) BRAKE BAR - 1 OFF
- 3) HANDLE ASSEMBLY - 1 OFF
- 4) BRAKE CONTROL ROD - 2 OFF
- 5) ROD SLEEVE TUBE - 2 OFF
- 6) SPRING COLLARS - 4 OFF
- 7) BRAKE RETAINING CLIP - 1 OFF
- 8) HANDLING BRACKET
- 9) TROLLEY WHEELS - 2 OFF
- 10) COTTER PIN - 2 OFF
- 11) ROUND WASHER - 4 OFF
- 12) COIL SPRING - 2 OFF
- 13) M6 SS NYLOCK NUT - 2 OFF
- 14) RUBBER BRAKE PAD - 2 OFF
- 15) Ø19 PLASTIC END CAP - 2 OFF
- 16) 50x25 PLASTIC END CAP - 2 OFF
- 17) CARGO BAR - 1 OFF
- 18) ZINC COATED M6x20 CROSS HEAD DOME BOLT,
WASHER AND SPRING WASHER - 4 OFF EA
- 19) SWIVEL CASTOR WHEEL
- 20) ZINC COATED M6x20 CROSS HEAD DOME BOLT,
WASHER AND SPRING WASHER - 18 OFF
- 21) DOLLY ARM UPPER L - 1 OFF
- 22) DOLLY ARM UPPER R - 1 OFF
- 23) DOLLY ARM LOWER L - 1 OFF
- 24) DOLLY ARM LOWER R - 1 OFF
- 25) DOLLY CASTER PLATE - 1 OFF
- 26) DOLLY TOP BRACE - 1 OFF
- 27) DOLLY UPPER BRACE PLATE - 1 OFF
- 28) DOLLY LOWER BRACE PLATE - 1 OFF
- 29) M6 CROSS PIN ASSY - 1 OFF
- 30) HOOK POST LONG - 2 OFF
- 31) HOOK POST SHORT - 2 OFF



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WheelieSafe™

Date	27/06/2016
Title	BIN HANDLING SYSTEM PARTS
Dwg No.	0001-30
Drawn by:	AD
Rev	A
Rev Date	Description

SAFETY NOTICE – Must be read prior to use

- **The WheelieSafe trolley must not be used to handle a single bin exceeding the total weight of 100kg.**
- When handling heavy loads take care when lowering the load; keep your legs apart or stand to one side. **Uncontrolled disengagement of the trolley from a heavy bin can cause the trolley to roll back suddenly and strike the user's legs.**
- When handling multiple bins the bins must be lightly laden or empty (i.e. the total combined weight not exceeding 60kg)
- The trolley must not be used on inclines of greater than 25%.

The Hook System

Two sets of loading hooks are provided on the trolley shafts – an upper set and a lower set. The lower set is designed for loading small (eg: 120 litre, 140 litre) bins and the upper hooks for loading 240 litre and some 360 litre bins.

Each set of hooks is made up of a right and left hand combination hook, which has a forward hook and a hook located closer to the shafts of the trolley and above the forward hook. The two most forward hooks are used when picking up a bin from the side or the front of a bin and are designed to fit under the side or front lip of the bin to temporarily re-locate it if that is necessary. The inner hooks adjacent to the trolley shafts are employed to pick up the bin using the bin's handlebar and should be employed when the bin, or bins, are to be moved some distance.

The following instructions should be read in conjunction with viewing the demonstration video which is on the WheelieSafe website:

(<http://wheeliesafe.com.au> or the YouTube link
http://www.youtube.com/watch?v=f_uqJpfW2E4

Loading a Single Bin

For regular use load the bin from the rear, using the bin's normal handlebar. A single bin can be loaded from either side edges, the front edge, or using the bin's handlebar. Generally, loading from either side or the front will only be employed to move the bin into a position where it can be loaded using the bin handlebar.

To Load a Bin

Incline the trolley forward at a sufficient angle to allow the inner hooks to locate under the bin's handlebar. Apply the brake by squeezing the brake bar to the point where it pushes the retaining clip away. Release the brake bar to apply the brake pads to the wheels. The trolley is now locked in a stationary position with the hooks under the bin's handlebar. Pull back on the trolley handle bar and the bin will be raised and come to rest against the trolley. The loaded trolley can now be moved by depressing the brake bar until the brake bar-retaining clip can retain it. The clip can

be employed either by pushing it towards you with the forefinger or rotated with the thumb, using the indentations on the top or front surfaces of the clip. Normally, the brake bar would be clipped into the 'off' position if some distance is to be travelled over level ground. Keep the brake bar free for operation on sloping ground or proceeding down steps.

Applying the Brake

Should it be necessary to apply the brake again in an emergency, a quick squeeze of the brake bar towards the trolley handle will push the retaining clip clear of the brake bar and allow it to be released quickly or gradually to apply the braking force required. Full sudden release will bring the trolley/bin combination to an abrupt halt.

Unloading a Bin or Bins

Bring the loaded trolley to a halt by fully applying the brake. Tilt the trolley forward until the leading edge of the bin touches the ground. Release the brake allowing the trolley to move backwards toward the operator and free from the bin handlebar.

Unloading a heavy bin or bins should be done with care. Uncontrolled disengagement of the trolley from the bin(s) can cause the trolley to roll back suddenly and allow the dolly wheel assembly to strike the users legs. **As a precaution the user should stand to one side or with legs apart during this operation.**

Loading Two Bins Piggyback

Load the heaviest or largest bin as described above. Place the handling bracket across the front lip of the loaded bin and move the loaded bin so that the bracket is located under the handle bar of the second bin. Tilt the trolley backwards and the handling bracket will pick up the handle bar of the second bin, loading it.

Loading Two Bins Abreast

Place the two bins side by side and clip a handling bracket across their inside front corners. Apply the trolley as described above except that the trolley hooks should be located so that they pick up the inside end of each of the bin's handlebars. This should be done so that the horizontal guide pins on the inside face of the hook assembly locate adjacent to the inside face of the outer bin handle support bracket. This prevents unevenly loaded bins from sliding sideways during operation. *(See Demonstration video on our website.)*

Loading Three Bins

With the handling bracket located as described above present the two loaded bins to a third bin until the bracket hook is located beneath the handlebar of the third bin. Apply the trolley brake and pull back on the trolley handlebar until the bracket

locates under the handlebar of the third bin. Keep pulling the trolley handlebar back until the third bin lifts clear of the ground.

Loading Four Bins

This operation requires a second Handling Bracket, which is available as an optional extra. Four lightly laden or empty bins may be loaded by placing the first handling bracket across the front inside corners of the first two bins and the second bracket in the same position on the second two bins to hold them together.

Load the first two bins as described above. Tip the two loaded bins forward and move forward in such a way that when the front two bins are raised by pulling back on the trolley handle, the handling bracket will pick up the inside ends of the handlebars of the second two bins and lift them off the ground. The four bins will then be locked in a 'four-square' configuration. (See the Instruction Video for a visual representation of this operation.)

Use of the braking system

One of the key advantages of the WheelieSafe trolley is the ability to brake the load when proceeding downhill or when a sudden stop is needed. The brake is a default "on" brake. The user grips the brake handle bar and releases it to apply the brake. The braking system is remarkably effective for most loads and inclines. However, it must be noted that the braking system requires careful control; the greater the load the less likely it is for the brake to fully stop the trolley. The trolley must not be used on inclines of greater than 25%. If the braking system allows the trolley to move faster than desired, ease the trolley handle bar forward thus increasing the load transferred directly to the ground via the wheels, reducing the forward force and increasing the brake effectiveness.

Stowing the Handling Brackets

The handling bracket(s) can be carried in a variety of ways using the chassis of the trolley and users will develop a system that most suits them. The single bracket supplied with the Manual model can be hung on the Transverse Bar (see sketch). If an optional extra bracket has been purchased, the best way to stow the two brackets is to pack them into the base of the chassis. To do so, stand in front of the upright trolley and hang the edge of the bracket having the arms at an acute angle over the brake pad bar. The right-angled side of the bracket will come to rest against the trolley axle. Turn the second bracket upside down and place the acute angled side of the second bracket inside the right-angled part of the first bracket. The right-angled side will nestle in behind the Cargo Bar.

Lubrication

The trolley bearings are sealed and do not require regular lubrication. A small quantity of dry (solid) lubricant should be applied regularly to the brake control rods, however, where they pass through the guides on the trolley chassis.

Appropriate Loading

The trolley should not be overloaded. The combined weight of the loaded trolley must not exceed 114 kgs.

Tyres

The puncture-proof tyres are foam filled and do not require maintenance.

General Maintenance

The tyre treads should be kept free of detritus as far as possible. Clogged treads may affect braking effectiveness.

The trolley frame and the handling brackets are powder coated and should remain rust-free indefinitely. Nevertheless, it is advisable to keep them clean as dirt may contain corrosive elements that will attack the finish.

If you have ANY questions regarding the safe and efficient use of the WheelieSafe Trolley please email the manufacturer at: info@wheeliesafe.com.au