

This manual contains IMPORTANT
WARNINGS AND INSTRUCTIONS
READ AND RETAIN FOR REFERENCE

UNIVERSAL CARTS

Model 224-043, Series A
For Senator®, Bulldog®, and King™ Pumps

Model 224-044, Series A
For President® and Monark® Pumps

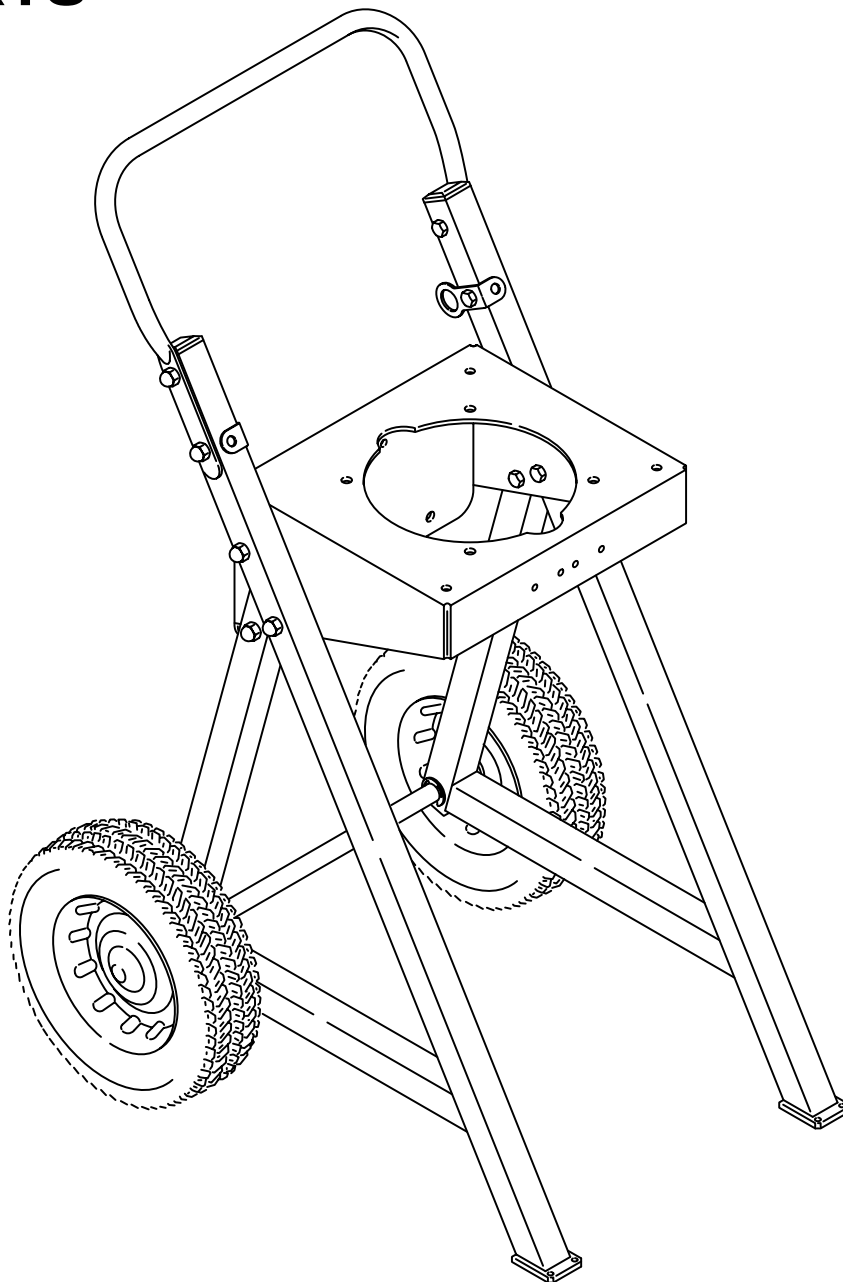


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MODEL 224-043 SHOWN



ASSEMBLY (MODEL 224-043)

WARNING

To reduce the risk of the cart tipping and fluid spillage, ALWAYS use the handle when moving the cart. NEVER use a hose to pull the cart. DO NOT modify any part of the cart. Doing so may make the cart unstable.

NOTE: Read this entire manual before assembling or using the cart.

1. Unpack the cart and check for any shipping damage. Report any damage to the carrier before proceeding.
2. Install two of the large retaining rings (13) in the innermost grooves (A) of the axle (10). See Fig 1.
3. Slide one end of the axle (10) through the large hole (B) in one frame (5) and secure with a large retaining ring (13) in groove (C). Repeat for the other frame.
4. Slide a wheel (7) onto the axle (10). Secure with a small retaining ring (12) in groove (D) of the axle. Install the hub cap (11). Repeat for the other side.
5. Install the pump bracket (6) using three screws (3) from the inside of the bracket through the three lower

holes (E) of one frame (5). Secure with lockwashers (2) and nuts (1), handtight. Repeat for the other side.

6. Assemble the handle (4) and suction tube holder (16) to one frame (5) with two screws (3), as shown in Fig 1. Be sure to hook the flange (F) of the tube holder around the front of the frame, with the large hole (G) to the rear. Secure with lockwashers (2) and nuts (1), handtight. Repeat for the other side.

NOTE: Slide the pump's suction tube through the holders (16), to keep it out of the way when not in use.

7. Holding the screws (3) with one wrench, use another wrench to tighten all nuts (1) securely.
8. Mount the pump as explained in your separate pump instruction manual.

MAINTENANCE

As required, lubricate the axle (10) between points A and D with lightweight oil. See Fig 1.

Keep the cart clean by wiping up spills daily, using a compatible solvent.

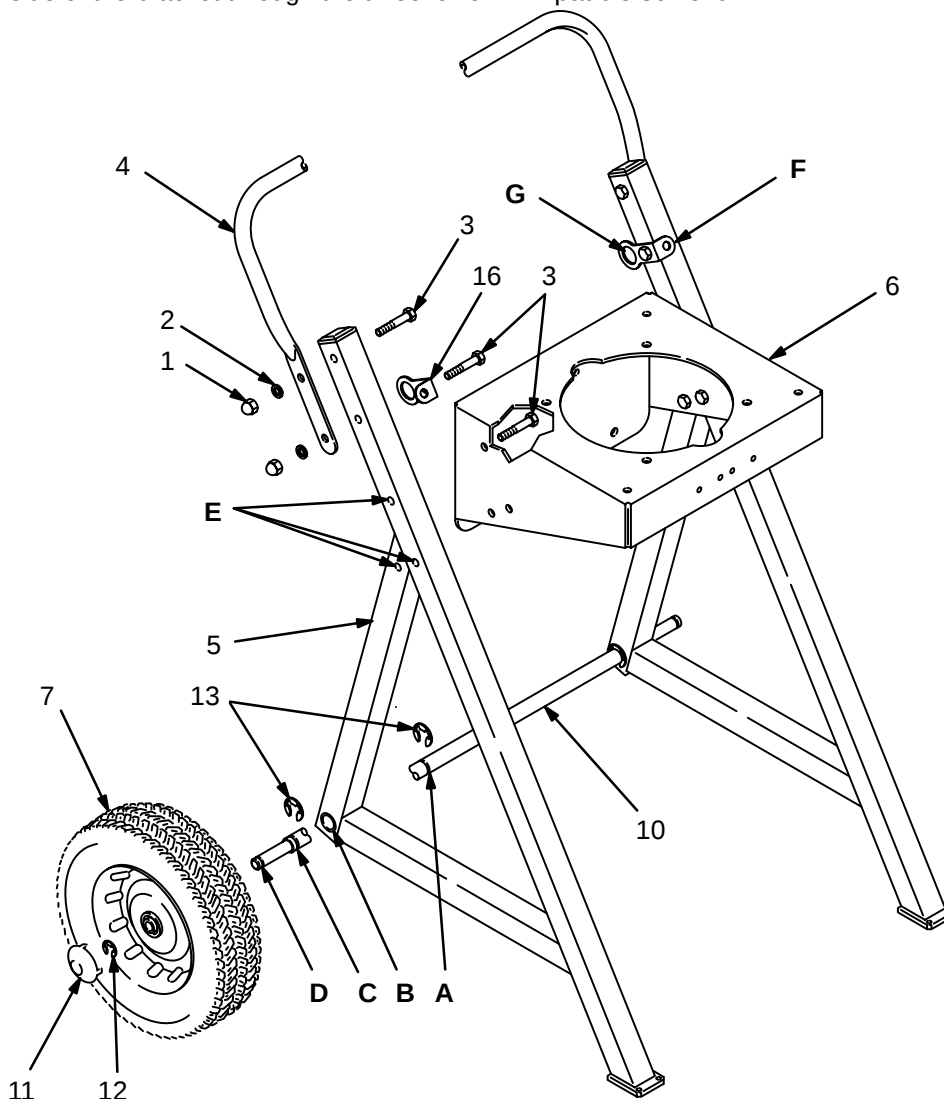


Fig 1

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WARNING

To reduce the risk of the cart tipping and fluid spilling, ALWAYS use the handle when moving the cart. NEVER use a hose to pull the cart. DO NOT modify any part of the cart. Doing so may make the cart unstable.

NOTE: Read this entire manual before assembling or using the cart.

1. Unpack the cart and check for any shipping damage. Report any damage to the carrier before proceeding.
2. Install two of the large retaining rings (13) in the innermost grooves (A) of the axle (10). See Fig 2.
3. Slide one end of the axle (10) through the large hole (B) in one frame (5) and secure with a large retaining ring (13) in groove (C). Repeat for the other frame.
4. Slide a wheel (7) onto the axle (10). Secure with a small retaining ring (12) in groove (D) of the axle. Install the hub cap (11). Repeat for the other side.
5. Install the pump bracket (6) using one screw (3) from the inside of the bracket through the lowest hole (E)

of one frame (5). Secure with a lockwasher (2) and nut (1), handtight. Repeat for the other side.

6. Assemble the handle (4) to one frame (5) with two screws (3), as shown in Fig 2. Secure with lockwashers (2) and nuts (1), handtight. Repeat for the other side.
7. Holding the screws (3) with one wrench, use another wrench to tighten all nuts (1) securely.
8. Mount the pump as explained in your separate pump instruction manual.

MAINTENANCE

As required, lubricate the axle (10) between points A and D with lightweight oil. See Fig 2.

Keep the cart clean by wiping up spills daily, using a compatible solvent.

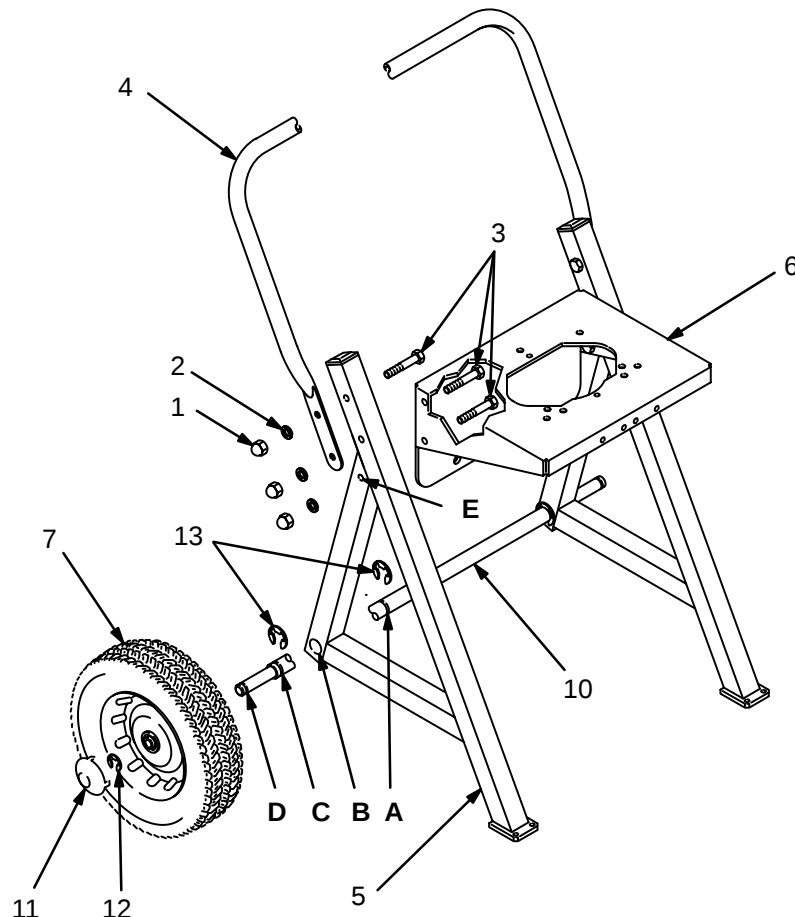


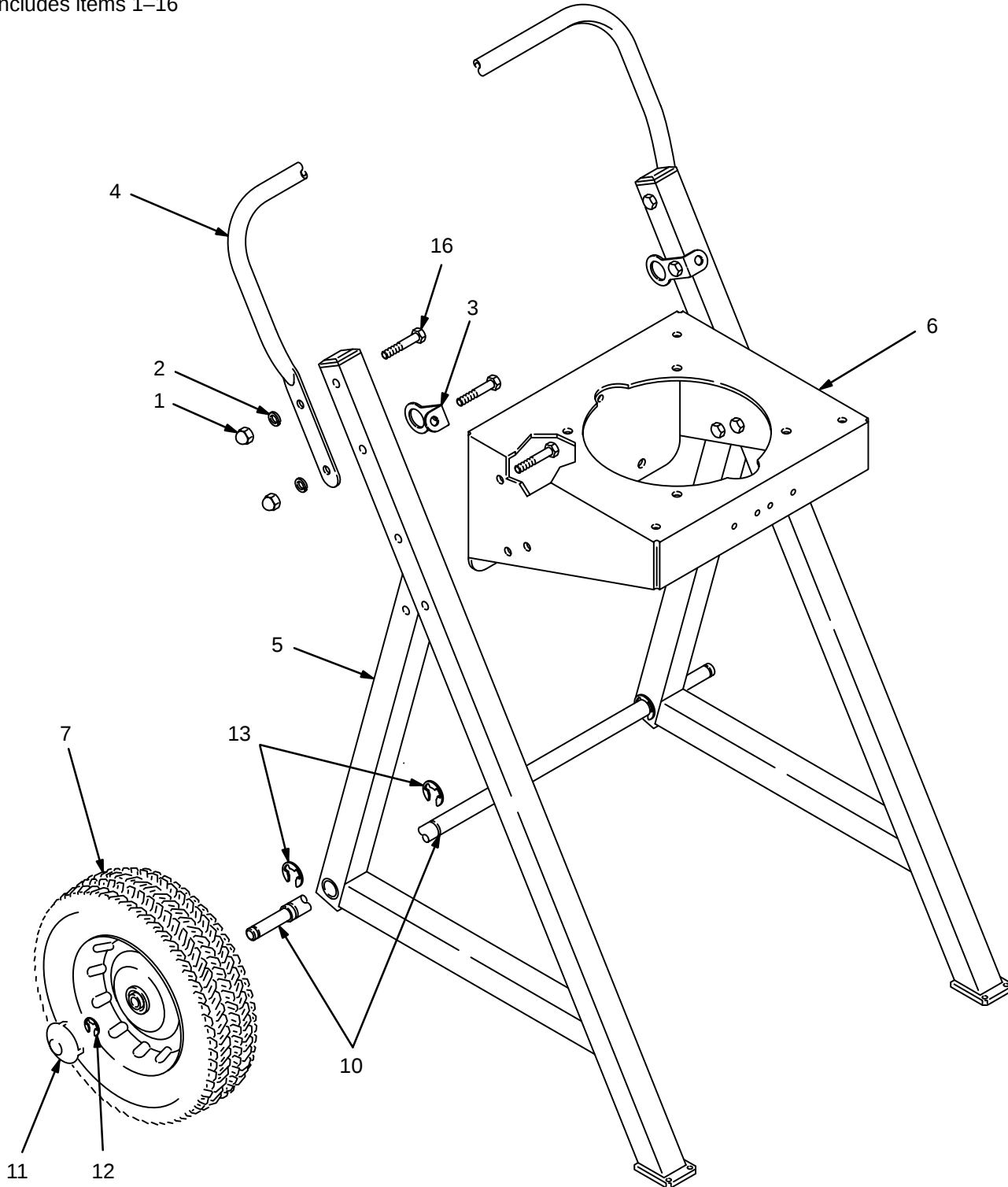
Fig 2

PARTS DRAWING AND PARTS LIST

Model 224-043, Series A

For Senator, Bulldog, and King Pumps

Includes items 1-16



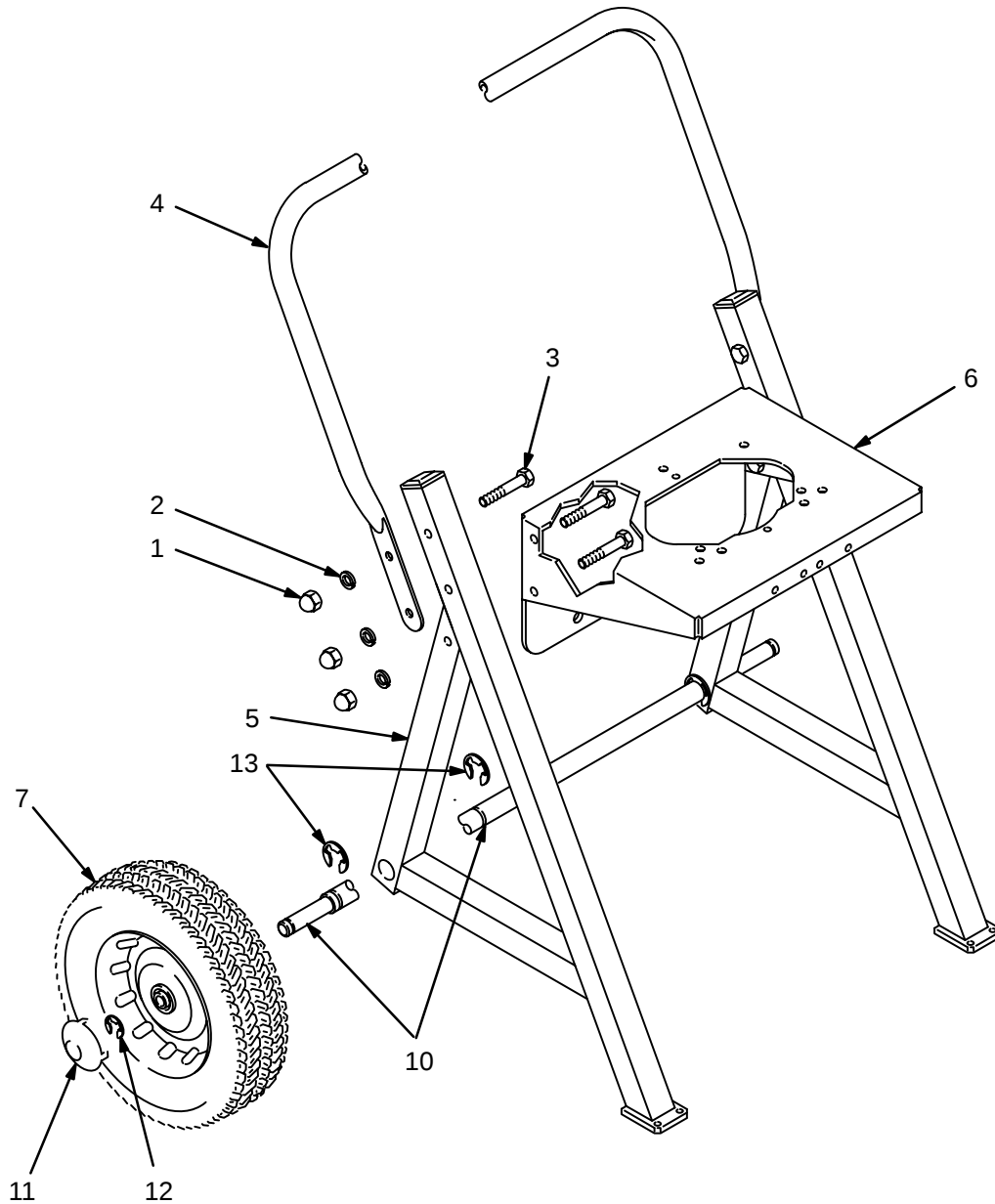
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REF NO.	PART NO.	DESCRIPTION	QTY	REF NO.	PART NO.	DESCRIPTION	QTY
1	111-031	NUT, hex, acorn; M10 x 1.5	10	7	179-811	WHEEL, semi-pneumatic	2
2	111-033	LOCKWASHER, plain; M10	10	10	186-723	AXLE	1
3	111-032	SCREW, cap, hex hd; M10 x 1.5; 55 mm (2.17") long	10	11	104-811	CAP, hub	2
4	186-722	HANDLE	1	12	101-242	RING, retaining; 12 mm (0.48") ID	2
5	224-041	FRAME	2	13	107-146	RING, retaining; 17 mm (0.668") ID	4
6	186-721	BRACKET, pump mounting	1	16	187-101	HOLDER, suction tube	2

Refer to "How to Order Parts" on page 5.

PARTS DRAWING AND PARTS LIST

Model 224-044, Series A
For President and Monark Pumps
Includes items 1-13



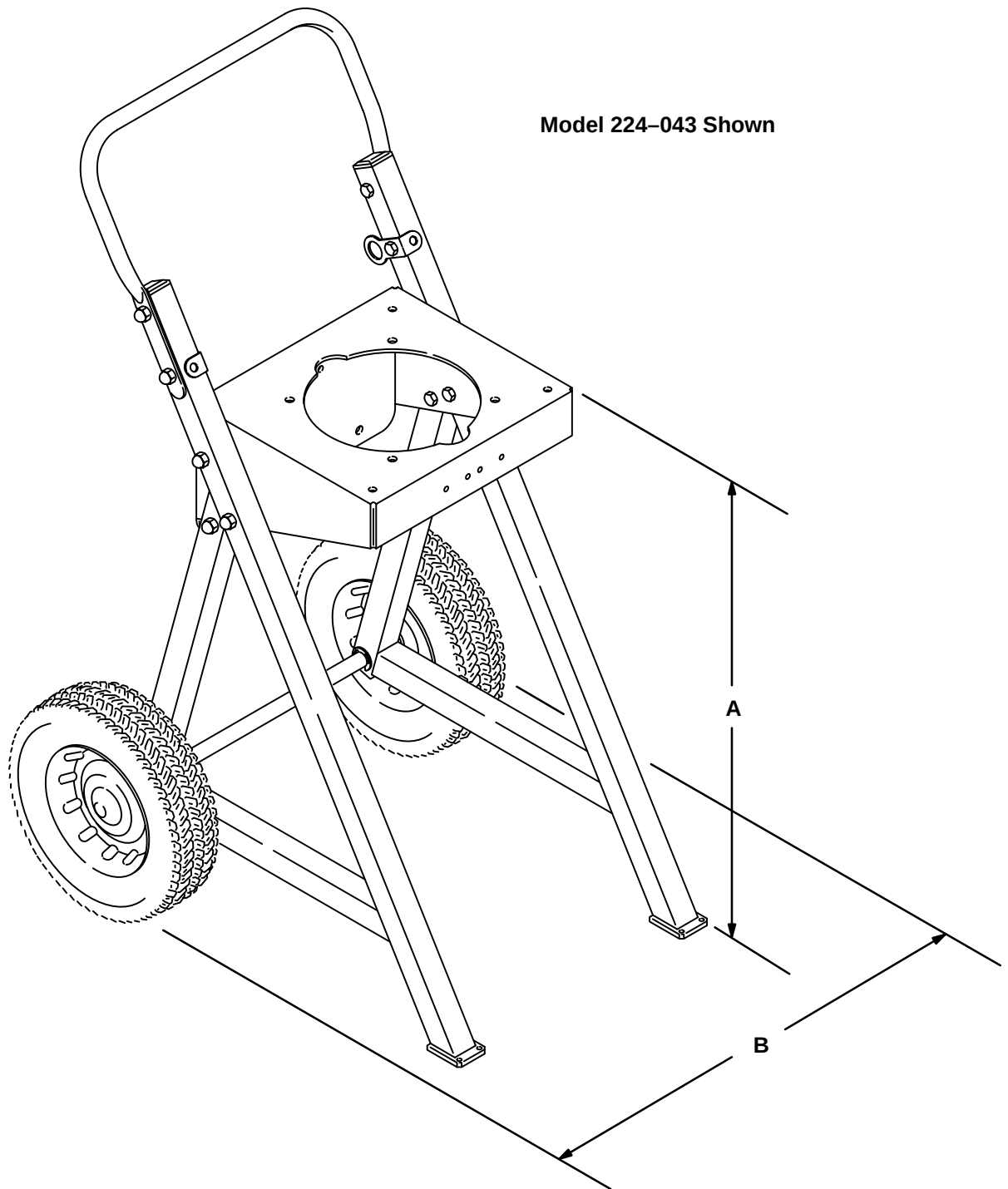
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REF NO.	PART NO.	DESCRIPTION	QTY
1	111-036	NUT, hex, acorn; M8 x 1.25	6
2	104-572	LOCKWASHER, spring; M8	6
3	111-037	SCREW, cap, hex hd; M8 x 1.25; 45 mm (1.77") long	6
4	186-728	HANDLE	1
5	224-042	FRAME	2
6	186-727	BRACKET, pump mounting	1
7	106-062	WHEEL, semi-pneumatic	2
10	186-729	AXLE	1
11	104-811	CAP, hub	2
12	101-242	RING, retaining; 12 mm (0.48") ID	2
13	107-146	RING, retaining; 17 mm (0.668") ID	4

HOW TO ORDER PARTS

1. To be sure you receive the correct replacement parts, kits or accessories, always give all of the information requested in the chart below.
2. Check the parts list to identify the correct part number; do not use the ref. no. when ordering.
3. Order all parts from your nearest Graco distributor.

6 digit Part Number	Qty	Part Description



Cart Model	A (Height of Pump Bracket)	B (Wheelbase)	Weight
224-043	770 mm (30.32 in.)	642 mm (25.25 in.)	29 kg (64 lb)
224-044	520 mm (20.47 in.)	565 mm (22.25 in.)	15 kg (33 lb)

THE GRACO WARRANTY AND DISCLAIMERS

WARRANTY

Graco warrants all equipment manufactured by it and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. As purchaser's sole remedy for breach of this warranty, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment proven defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for, any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility with Graco equipment of structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor and transportation.

DISCLAIMERS AND LIMITATIONS

THE TERMS OF THIS WARRANTY CONSTITUTE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AND ARE IN LIEU OF ANY OTHER WARRANTIES (EXPRESS OR IMPLIED), INCLUDING WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY NON-CONTRACTUAL LIABILITIES, INCLUDING PRODUCT LIABILITIES, BASED ON NEGLIGENCE OR STRICT LIABILITY. EVERY FORM OF LIABILITY FOR DIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES OR LOSS IS EXPRESSLY EXCLUDED AND DENIED. IN NO CASE SHALL GRACO'S LIABILITY EXCEED THE AMOUNT OF THE PURCHASE PRICE. ANY ACTION FOR BREACH OF WARRANTY MUST BE BROUGHT WITHIN TWO (2) YEARS OF THE DATE OF SALE.

EQUIPMENT NOT COVERED BY GRACO WARRANTY

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO ACCESSORIES, EQUIPMENT, MATERIALS, OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motor, switches, hose, etc.) are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

IMPORTANT PHONE NUMBERS

TO PLACE AN ORDER, contact your Graco distributor, or call this number to identify the distributor closest to you: **1-800-328-0211 Toll Free**

FOR TECHNICAL ASSISTANCE, service repair information or assistance regarding the application of Graco equipment: **1-800-543-0339 Toll Free**

SERVICE INFORMATION

Listed below by the assembly changed are ADDED and DELETED parts.

Assembly Changed	Status	Ref No.	Part No.	Name
224-043	Added (2)	1	111-031	Nut
	Added (2)	2	111-033	Washer
	Added (2)	3	111-032	Screw
	Deleted*	14	111-218	Tube Cap
224-044	Deleted*	14	111-218	Tube Cap

NOTE: The number in parentheses refers to the quantity added.

*NOTE: The part no. 111-218 tube cap is now assembled to the frame at the factory.

Factory Branches: Atlanta, Chicago, Dallas, Detroit, Los Angeles, West Caldwell (N.J.)

Subsidiary and Affiliate Companies: Canada; England; Switzerland; France; Germany; Hong Kong; Japan; Korea

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