

Raptor Vac[®] Cart

For Optional M-Class Vacuums

Safety, Operation and Maintenance – Save This Document and Educate All Personnel

Model	Tool Hangers
61484	One
61485	Two



Shown with optional M-Class Vacuum, Random Orbital Sander, Storage Box and Hose.

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DESCRIPTION

The Vacuum Cart (cart) supports, organizes and provides mobility for a portable vacuum with one or two attached vacuum hoses and power tools. The cart includes a tray located above the portable vacuum. The tray accepts storage boxes and pivots for maintenance or removal of the portable vacuum.

INTENDED USE

The cart is intended for indoor use in non-hazardous areas by trained operators who have read and understood this manual. The cart is intended to carry portable vacuums approved or supplied by Dynabrade.

Approved Dynabrade Raptor Vac® Models: 61400, 61401, 61402, 61403, 61408, 61409, 61412, 61413, 61415, 61420 and 61421.

FORESEEABLE MISUSE

Misuse could include but isn't limited to the following:

- Set up and assembly without reading this manual
- Using the cart without reading this manual
- Overloading with more than 150lbs
- Overloading the tray with more than 25lbs
- Riding on the cart
- Pulling the cart along with a vacuum hose
- Using the cart outdoors or in hazardous areas
- Using the cart on an inclined, uneven, or loose surface
- Neglecting maintenance
- Using with an unapproved portable vacuum

IMPORTANT SAFETY INSTRUCTIONS

READ ALL PARTS OF THIS MANUAL CAREFULLY BEFORE USE

KEEP FOR FUTURE REFERENCE

Definitions

⚠ DANGER - Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

⚠ WARNING - Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION - Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

Set up

1. **⚠ WARNING** To avoid serious injury or death from electrocution, when using a portable electric vacuum, inspect the power cord for abrasion or damage before each use.
2. **⚠ WARNING** Do not use or move the cart with 61533 TRAY pivoted to the maintenance position. Secure tray in operating position before use. Unsecured tray can allow portable vacuum to fall off cart causing serious injury from impact.
3. **⚠ WARNING** Use 61540 MOUNTING KIT to secure portable vacuums which have stainless steel canisters. Unsecured portable vacuums which have stainless steel canisters can fall off the cart causing serious injury from impact.
4. **⚠ WARNING** Do not use the cart with an unapproved portable vacuum. The portable vacuum can fall off the cart causing serious injury from impact.
5. **⚠ WARNING** Do not install 61335 BALLAST into 61526 POST WITH HINGE. Only install into 61527 POST or the cart may tip over causing serious injury from impact.
6. **⚠ CAUTION** To avoid impact injury, wear approved safety shoes and use caution when unpacking heavy parts.

7. **⚠CAUTION** To avoid strain injury, use two people to lift the cart during assembly.
8. **⚠CAUTION** To avoid strain injury, use two people to lift a portable vacuum onto the cart.

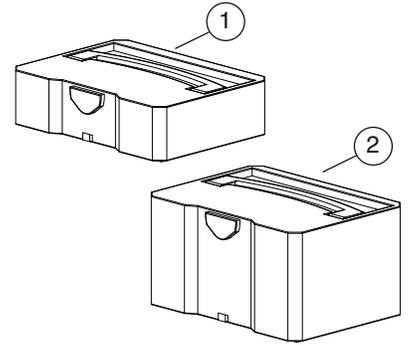
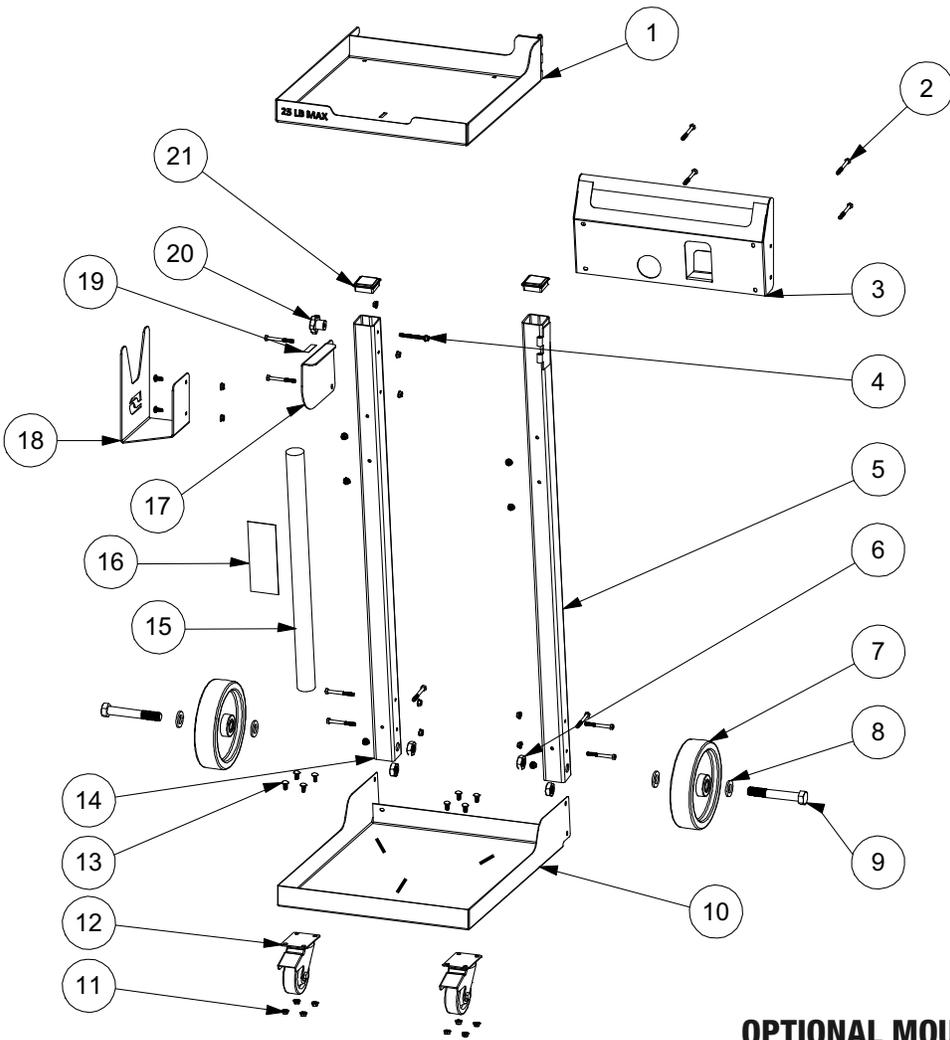
Operation

1. **⚠WARNING** Do not overload cart with greater than 150 lbs total load or cart may tip over or collapse causing serious injury from impact. Total load determination must include portable vacuum, any debris the vacuum has collected, tools, hoses, abrasives, and contents of the cart's tray.
2. **⚠WARNING** Do not overload cart's 61533 TRAY with greater than 25 lbs total load and pivot to maintenance position. The cart may tip over or collapse causing serious injury from impact. Total tray load determination must include all contents of the shelf including any storage box and its contents.
3. **⚠WARNING** Do not ride on the cart or it may tip over or collapse causing serious injury from impact.
4. **⚠WARNING** Do not pull on a vacuum hose coming from a tool which is installed on a HOSE HANGER (61532 or 61536). The cart may tip over causing serious injury from impact.
5. **⚠WARNING** Move the cart using its 61531HANDLE only. Do not pull on a vacuum hose to move the cart. The cart may tip over causing serious injury from impact.
6. **⚠WARNING** Do not exceed recommended airline pressure or airline failure could cause serious injury from hose whip.
7. **⚠WARNING** Do not move the cart beyond the length limit of the electric cord or air line. Damaged lines may cause serious injury or death from electrocution and the cart may tip over causing serious injury from impact.

8. **⚠️ WARNING** Do not use or move the cart with 61533 TRAY pivoted to the maintenance position. Secure tray in operating position before use. Unsecured tray can allow portable vacuum to fall off cart causing serious injury from impact.
9. **⚠️ WARNING** Do not use cart on an incline. The cart may tip over causing serious injury from impact.
10. **⚠️ CAUTION** Do not use cart on uneven or loose surfaces. Pushing or pulling the cart over uneven or loose surfaces could cause strain injury.
11. **⚠️ CAUTION** Be alert to the position of the air line and electric cord. Operator could trip on air line or electric cord causing injury from fall.

Maintenance

1. **⚠️ WARNING** To avoid serious injury or death from electrocution, when using a portable electric vacuum, inspect the power cord for abrasion or damage before each use.
2. **⚠️ WARNING** Do not allow combustible dust to accumulate more than 1/32" on the cart or on surrounding areas. Ignition of a dust cloud created from a dust layer could cause serious injury or death.
3. **⚠️ WARNING** Do not overload cart's 61533 TRAY with greater than 25 lbs total load before or after pivoting to maintenance position. The cart may tip over or collapse causing serious injury from impact. Total load determination must include all contents of the tray including any storage box and its contents.
4. **⚠️ WARNING** Do not use or move the cart with 61533 TRAY pivoted to the maintenance position. Secure tray in operating position before use. Unsecured tray can allow portable vacuum to fall off cart causing serious injury from impact.



OPTIONAL STORAGE BOXES

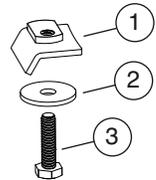
ITEM NO.	PART NO.	DESCRIPTION
1	61502	Storage Box I
2	61503	Storage Box II

OPTIONAL MOUNTING KITS

Kit No. 61540

Steel Canister Mounting Kit

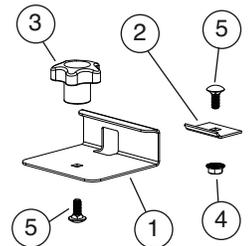
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	61539	STEEL CANISTER CLIP	3
2	97314	WASHER	3
3	95179	BOLT	3



Kit No. 61505

Storage Box Mounting Kit

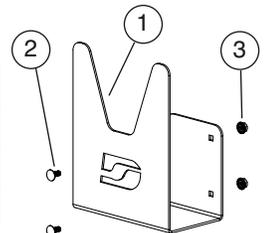
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	61535	STORAGE BOX FRONT CLIP	1
2	61534	STORAGE BOX BACK CLIP	2
3	61537	FIVE-ARM THREADED KNOB	1
4	98570	NUT	2
5	98626	BOLT	3



Kit No. 61506 - Standard on 61485

Hinge Side Hose Hanger Kit

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	61532	HINGE SIDE HOSE HANGER	1
2	98570	NUT	2
3	98626	BOLT	2



ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	61533	TRAY	1
2	95025	HEX HEAD BOLT	12
3	61531	HANDLE	1
4	96745	FLANGE BOLT	1
5	61526	POST WITH HINGE	1
6	96743	3/4 HEX NUT	4
7	61530	8" WHEEL	2
8	96742	3/4 FLAT WASHER	4
9	96741	3/4 CAP SCREW	2
10	61525	BASE	1
11	98570	FLANGE NUT	23
12	61376	LOCKING CASTER	2
13	98626	CARRIAGE BOLT	10
14	61527	POST	1
15	61335	BALLAST	1
16	61504	BALLAST LABEL	1
17	61538	GUSSET	1
18	61536	HOSE HANGER	1
19	98249	UHMW TAPE 1/2" x 2"	1
20	61537	FIVE-ARM THREADED KNOB	1
21	61528	CAP	2

Follow all setup safety instructions, found on page 4-5.

INSTRUCTIONS FOR USE

Set Up

Follow all Set Up Safety Instructions found on pages 4-5.

Follow Set Up instructions in the order presented.

Set Up will require the following tools:

- One 7/16" open end wrench
- Second 7/16" open end wrench or socket with ratchet or adjustable wrench
- One 3/8" open end wrench or socket with ratchet or adjustable wrench
- Two 1-1/8" open end wrenches or sockets with ratchet or adjustable wrenches
- Hammer

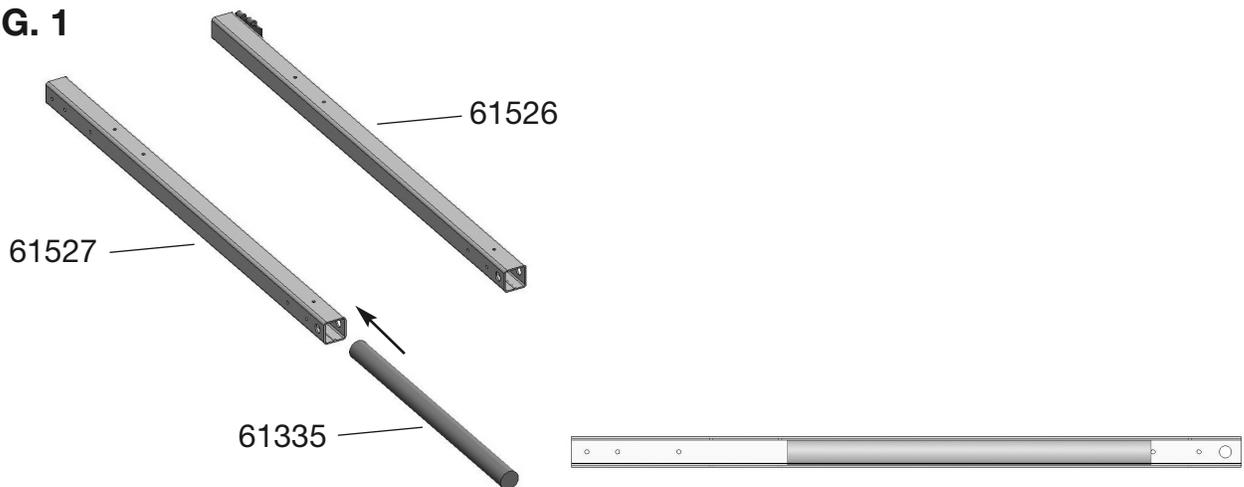
1. Inspect packaging and note any damage before proceeding. Refer to exploded view on page 7 for parts description. Unpack and inspect all parts for damage. Do not assemble with damaged parts.

⚠ CAUTION To avoid impact injury, wear approved safety shoes and use caution when unpacking heavy parts.

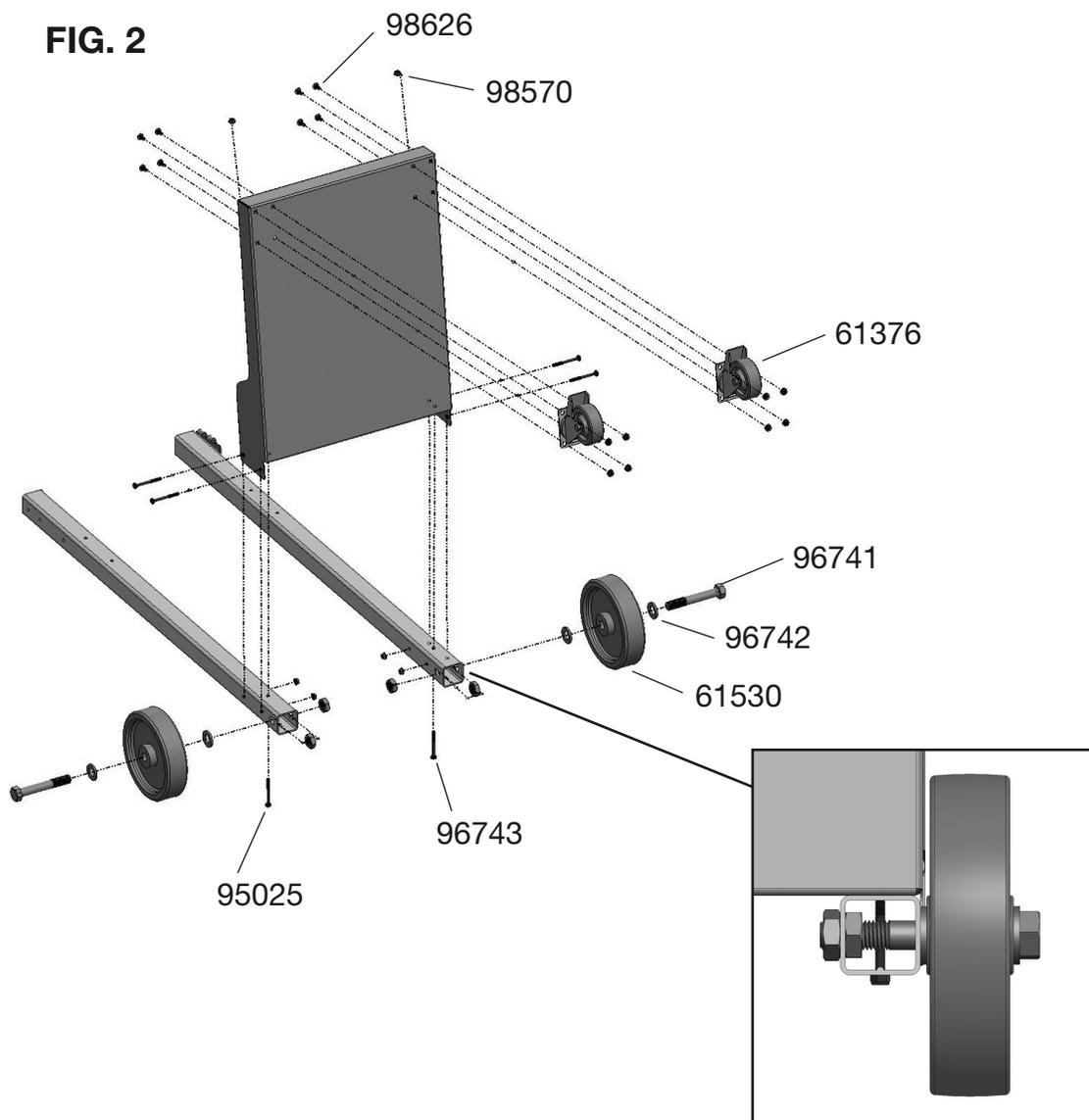
2. Arrange 61527 POST and 61526 POST WITH HINGE on a work table and insert 61335 BALLAST into 61527 POST as shown in FIG. 1.

⚠ WARNING Do not install 61335 BALLAST into 61526 POST WITH HINGE. Only install into 61527 POST or the cart may tip over causing serious injury from impact.

FIG. 1



3. Bolt 61525 BASE to the posts using 95025 $\frac{1}{4}$ -20 x 2-1/2" HEX HEAD BOLT (6) and 98570 $\frac{1}{4}$ -20 FLANGE NUT (6). Install all six bolts loosely and then tighten fully. See FIG. 2.
4. Install 61530 8" OD x $\frac{3}{4}$ " ID X 2" WHEEL using 96741 $\frac{3}{4}$ -10 x 5" ZINC PLATED STEEL CAP SCREW, 96742 $\frac{3}{4}$ " ZINC PLATED STEEL SAE FLAT WASHER (2), and 96743 $\frac{3}{4}$ -10 ZINC PLATED STEEL THIN HEX NUT (2). Adjust position of internal 96743 $\frac{3}{4}$ -10 ZINC PLATED STEEL THIN HEX NUT to allow 61530 8" OD x $\frac{3}{4}$ " ID X 2" WHEEL to turn freely, then tighten external 96743 $\frac{3}{4}$ -10 ZINC PLATED STEEL THIN HEX NUT while holding 96741 $\frac{3}{4}$ -10 x 5" ZINC PLATED STEEL CAP SCREW in position. Repeat on opposite side. See FIG. 2.
5. Install 61376 LOCKING CASTER using 98626 $\frac{1}{4}$ -20 x 5/8" SHORT NECK CARRIAGE BOLT (4) and 98570 $\frac{1}{4}$ -20 FLANGE NUT (4). Repeat on opposite side. See FIG. 2.

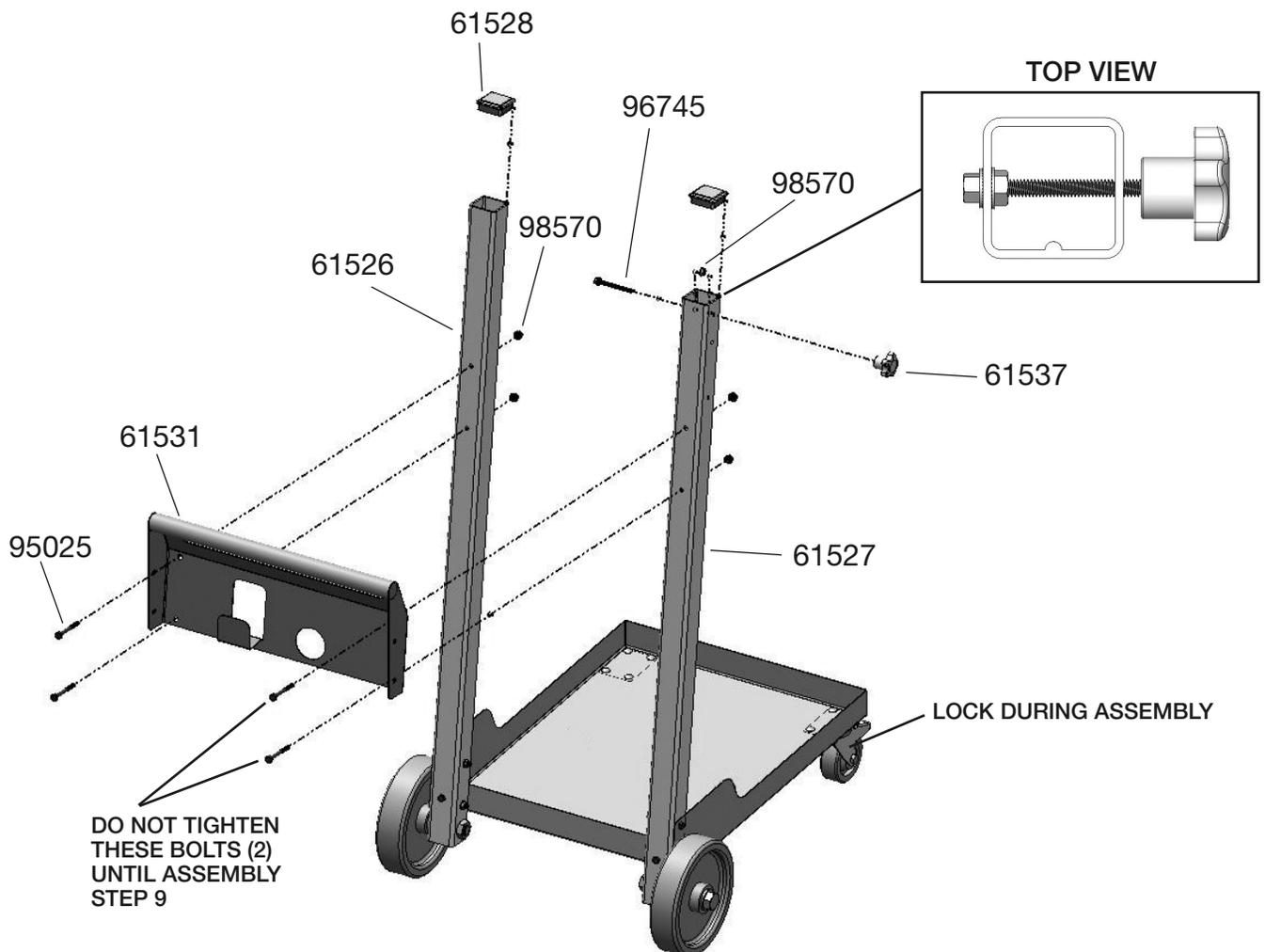


- Use two people to lift the cart back to vertical, resting on the ground. Lock the locking casters. See FIG. 3.

⚠ CAUTION To avoid strain injury, use two people to lift the cart during assembly.

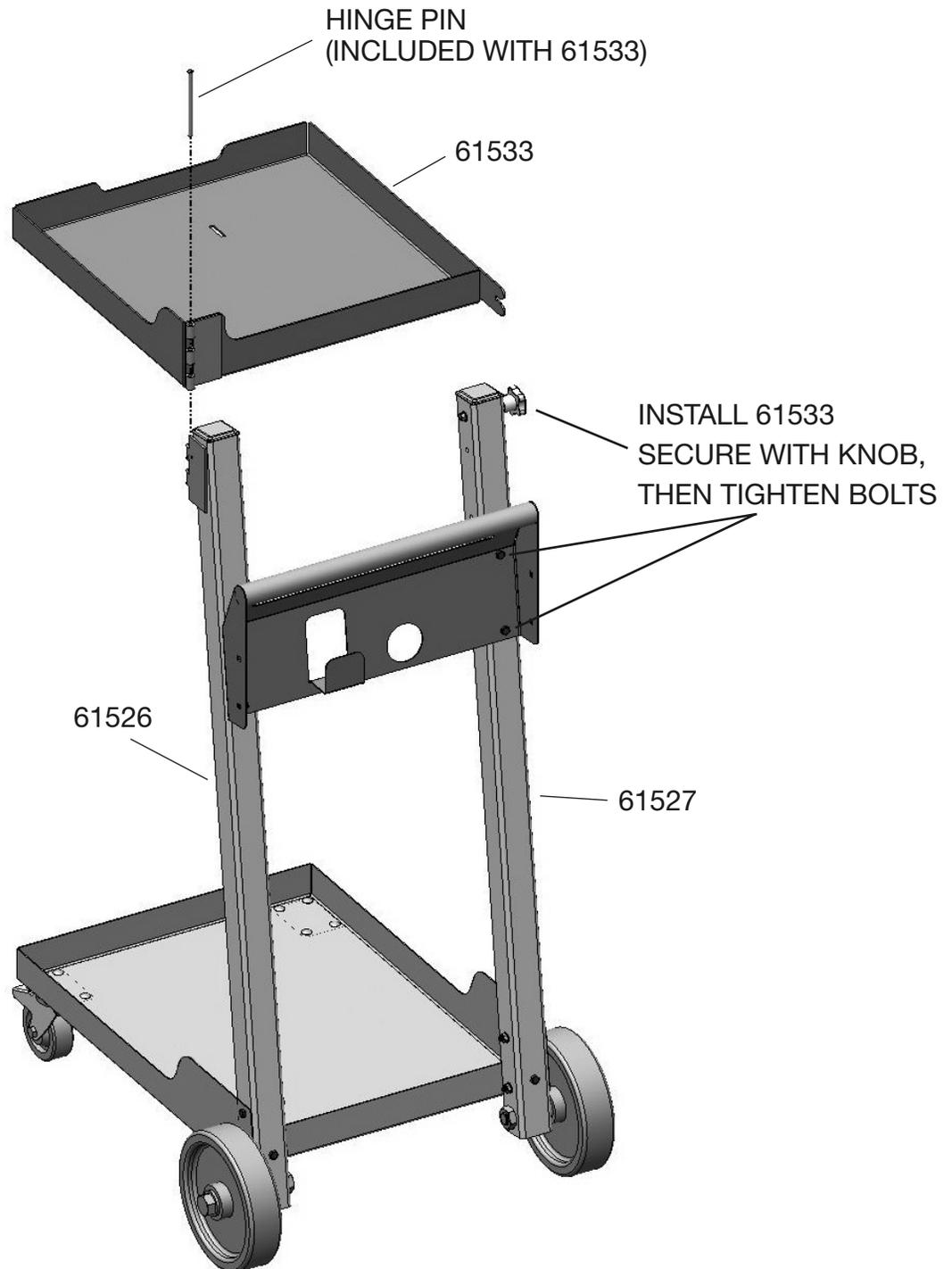
- Install 61531 HANDLE using 95025 1/4-20 x 2-1/2" HEX HEAD BOLT (4) and 98570 1/4-20 FLANGE NUT (4). Install all four bolts loosely and then fully tighten only those in 61526 POST WITH HINGE. See FIG. 3.
- Install 96745 1/4-20 x 2-1/2" FLANGE BOLT into 61527 POST using 98570 1/4-20 FLANGE NUT. Install 61528 CAP (2) and 61537 FIVE ARM THREADED KNOB. See FIG. 3.

FIG. 3

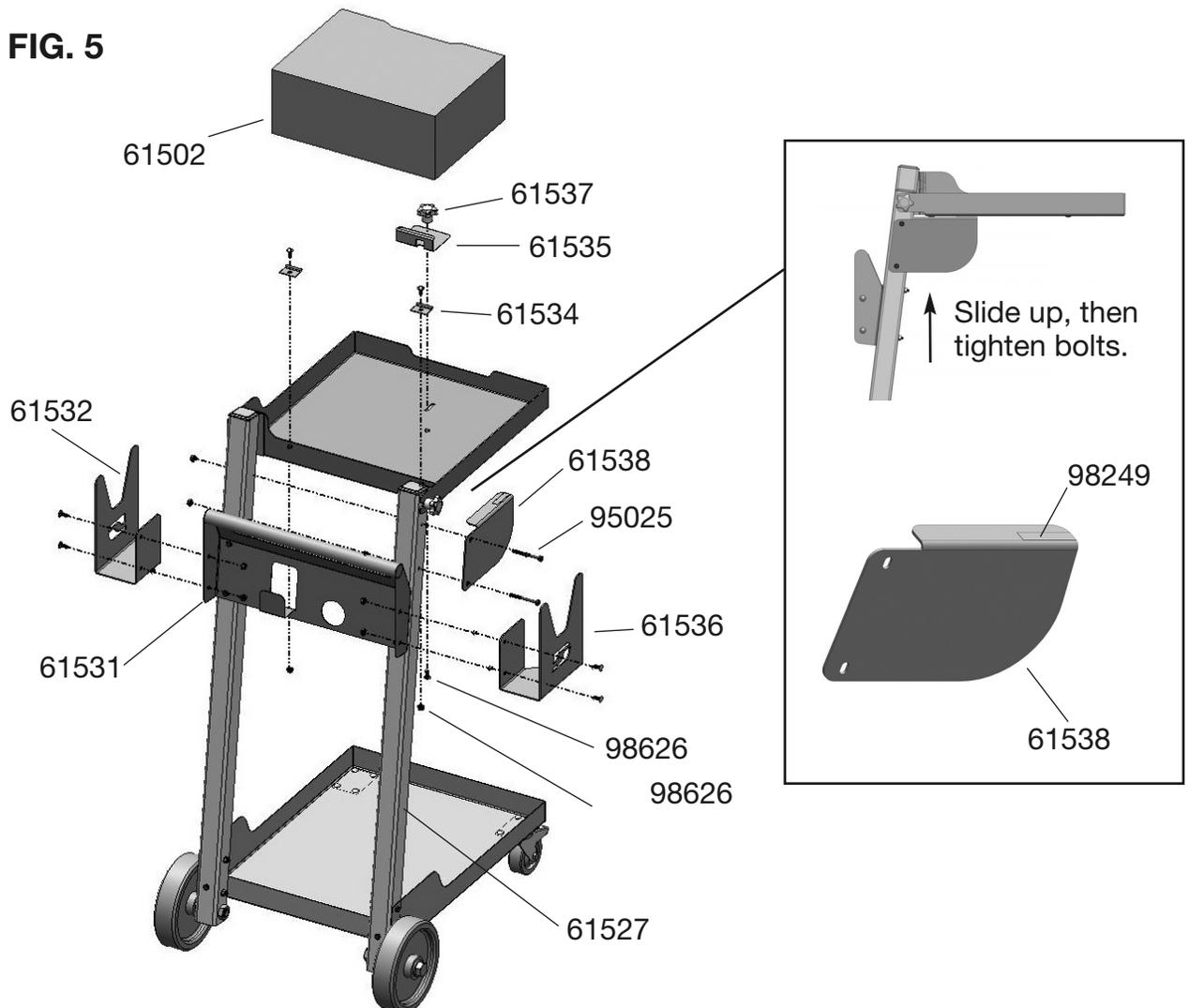


9. Install 61533 TRAY onto 61526 POST WITH HINGE using included hinge pin. Pivot tray to operating (closed) position and secure with knob. Tighten remaining two bolts in 61527 POST from step 7. See FIG. 4.

FIG. 4



10. Install 98249 UHMW TAPE $\frac{1}{2}$ " x 2" on 61538 GUSSET as shown in FIG. 5.
11. Install 61538 GUSSET on 61527 POST using 95025 $\frac{1}{4}$ -20 x 2-1/2" HEX HEAD BOLT (2) and 98570 $\frac{1}{4}$ -20 FLANGE NUT (2). Install bolts loosely, slide gusset up to touch bottom surface of the tray, and tighten in place. See FIG. 5.
12. Install 61536 HOSE HANGER on 61531 HANDLE using 98626 $\frac{1}{4}$ -20 x 5/8" SHORT NECK CARRIAGE BOLT (2) and 98570 $\frac{1}{4}$ -20 FLANGE NUT (2). See FIG. 5.
13. Optionally, Install 61532 HINGE SIDE HOSE HANGER on 61531 HANDLE using 98626 $\frac{1}{4}$ -20 x 5/8" SHORT NECK CARRIAGE BOLT (2) and 98570 $\frac{1}{4}$ -20 FLANGE NUT (2). See FIG. 5.
14. Optionally, install 61534 STORAGE BOX BACK CLIP using 98626 $\frac{1}{4}$ -20 x 5/8" SHORT NECK CARRIAGE BOLT and 98570 $\frac{1}{4}$ -20 FLANGE NUT. Repeat on opposite side. Install 61535 STORAGE BOX FRONT CLIP using 98626 $\frac{1}{4}$ -20 x 5/8" SHORT NECK CARRIAGE BOLT and 61537 FIVE ARM THREADED KNOB. See FIG. 5.



15. To install portable electric vacuums with stainless steel canister or composite canister, loosen 61537 FIVE ARM THREADED KNOB and pivot 61533 TRAY to maintenance position. Use two people to lift the portable vacuum onto the cart. Use 61540 MOUNTING KIT (page 7) to secure portable vacuums which have stainless steel canisters. See FIG. 6.

⚠ WARNING To avoid serious injury or death from electrocution, when using a portable electric vacuum, inspect the power cord for abrasion or damage before each use.

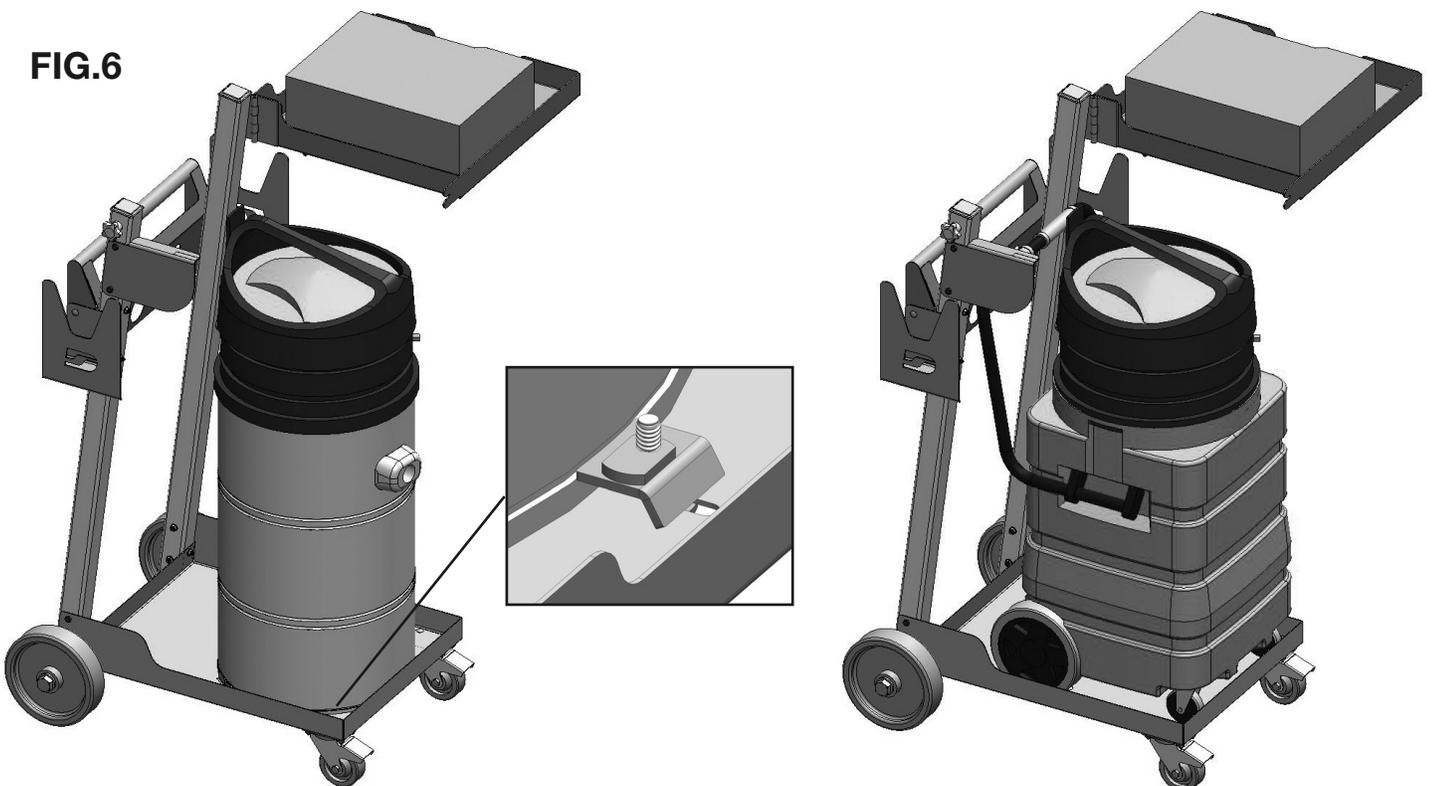
⚠ WARNING Do not use or move the cart with 61533 TRAY pivoted to the maintenance position. Secure tray in operating position before use. Unsecured tray can allow portable vacuum to fall off cart causing serious injury from impact.

⚠ WARNING Use 61540 MOUNTING KIT to secure portable vacuums which have stainless steel canisters. Unsecured portable vacuums which have stainless steel canisters can fall off the cart causing serious injury from impact.

⚠ WARNING Do not use the cart with an unapproved portable vacuum. The portable vacuum can fall off the cart causing serious injury from impact.

⚠ CAUTION To avoid strain injury, use two people to lift a portable vacuum

FIG.6



Operation

1. Follow all operating and maintenance safety instructions found on pages 5-6.
2. Unlock the Locking Casters (61376) to move the cart.
3. Lock the Locking Casters (61376) when making adjustments to the portable vacuum.
4. Keep a copy of this manual for reference.
5. Hang tools on "V" section of Hose Hangers (61536, 61532).
6. Hang vacuum hoses on Hose Hangers (61536, 61532).
7. Disconnect the electric cord and air line before moving the cart beyond their working length.
8. When not connected, hang portable vacuum's electric cord on cord hanger portion of handle (61531).

Maintenance

1. Follow all operating and maintenance safety instructions found on pages 5-6.
2. Loosen knob (61537) to release and pivot tray (61533) to access portable vacuum.
3. Remove any dust or debris which accumulates greater than 1/32" layer thickness on the cart.
4. Clean debris from caster/wheel surface when required to ensure smooth rolling motion.

WARRANTY

Vacuum Cart 12 Month Warranty

Dynabrade warrants all Vacuum Carts against defects in workmanship and materials under normal use and service for a period of 12 months from the date of purchase as set forth herein. Customer must return the defective Vacuum Cart to Dynabrade within 12 months from the date of purchase. Upon examination and review at Dynabrade's factory, Dynabrade shall confirm whether the Vacuum Cart qualifies for warranty status, in which case Dynabrade shall repair or replace the Vacuum Cart at no charge to the customer. Exceptions for in-field examination shall be made only at Dynabrade's discretion.

This warranty is contingent upon proper assembly and use of the Vacuum Cart in accordance with factory recommendations, instructions and safety practices. It shall not apply to Vacuum Carts that have been subjected to misuse, negligence, accident or tampering in any way so as to affect its normal performance. This warranty does NOT cover normally wearable parts and accessories, including, but not limited to, casters, locks and cable ties. This warranty does NOT cover chipped or damaged coatings or corrosion. To be considered for warranty, Vacuum Carts must be sent back to our factory, transportation prepaid by user. Please send Vacuum Carts back to attention "Repair Department" with a written explanation of the problem along with a copy of the original invoice indicating model and serial number if applicable.

THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND THERE ARE NO OTHER WARRANTIES THAT EXTEND BEYOND THIS EXPRESS WARRANTY.

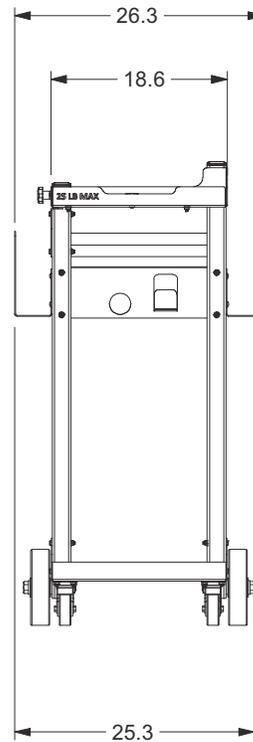
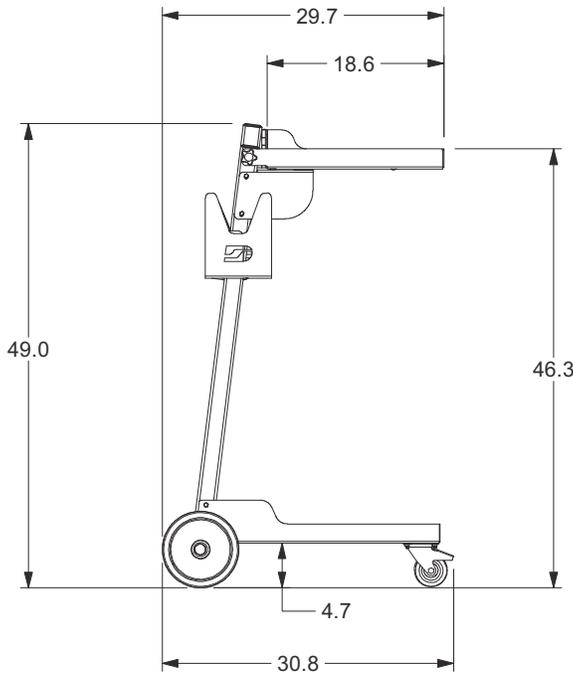
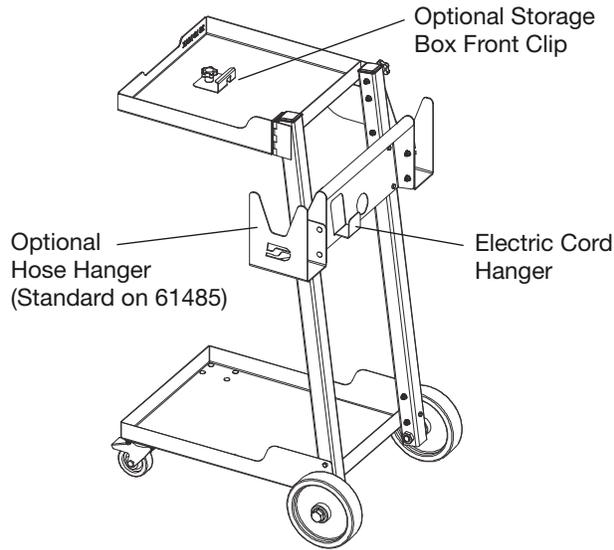
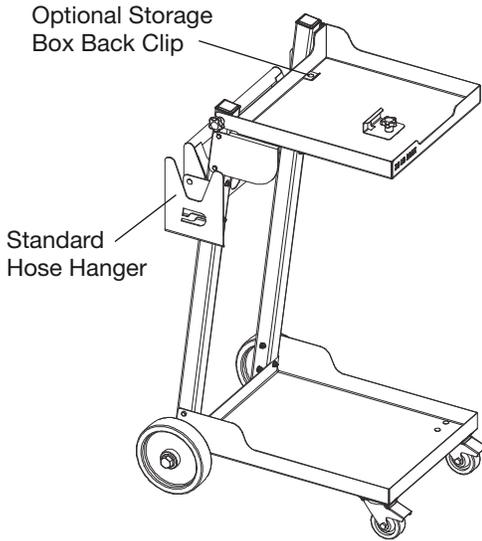
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Dynabrade's liability with respect to a claim for any other damages arising out of or connected with the manufacture, sale, purchase, non-delivery, use or performance of any product sold by Dynabrade will in no event exceed to the price paid for the product.

CART SPECIFICATIONS

Model	Weight	Shipping Weight	Width	Length	Height
61484	83 lb. (38 kg)	97 lb. (44 kg)	25.3" (668 mm)	30.8" (782 mm)	49" (1,245 mm)
61485	86 lb. (39 kg)	100 lb. (45 kg)	26.3" (668 mm)	30.8" (782 mm)	49" (1,245 mm)



REFERENCE CONTACT INFORMATION

American National Standards Institute (ANSI)

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Tel: 1 (216) 241-7333 • Fax: (216) 241-0105

European Committee for Standardization

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International Organization of Standards

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