

World's Best Drywall Lifts™

Genuine **PANEL LIFT** ^{USA} **Brand** [®]

by **Telpro Inc.**
www.telproinc.com

Covered by one or more of the following patents: 3,828,942 5,368,429 5,984,605 7,556,464 7,726,901 7,828,506 7,726,901 Other patents pending

OPERATOR'S MANUAL

For Model 460



⚠ WARNING ⚠

Read and become familiar with this manual **BEFORE** operating unit.

Before operating this equipment, thoroughly read this set of instructions, make sure you understand them, and only then follow the step-by-step directions. Failure to do so could result in serious property damage and / or serious bodily injury.

PARAGON PRO
MANUFACTURING SOLUTIONS

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To our valued customer,

Thank you for choosing a **Telpro Inc.**[®] product by **PARAGON PRO** Manufacturing Solutions. We are pleased that we are able to provide equipment to make your work easier.

Our efforts are focused on producing the finest quality equipment of which we are capable. We make sure to spend extra time and effort on our design and production in order to reduce your time and effort spent using the product.

We take pride in providing the best for our customers. Quality, innovation, and excellence are all qualities this company ensures. No product is sent without being factory tested and inspected to ensure the highest quality for you.

It all began in 1972 when Roland Young designed our first product, the PANELLIFT[®] Brand Drywall Lift, and revolutionized the drywall industry. To this day we are continuously making advancements in manufacturing and design.

Thank you again for giving us the opportunity to work with you. Any questions or comments that you have are always welcome.

PARAGON PRO
M a n u f a c t u r i n g S o l u t i o n s

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ALL PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY.
ALWAYS WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

⚠ Warning ⚠

Read and follow these warnings and the instructions that follow. Failure to do so could result in serious property damage and/or serious bodily injury.

• **BEFORE** operating this equipment, thoroughly read this set of instructions, make sure you understand them, and only then follow the step-by-step directions. **FAILURE TO READ AND FOLLOW THESE INSTRUCTIONS** could result in failure of the equipment. Failure of the equipment while the lift is raised can include a sudden and rapid lowering of the lift and load possibly resulting in serious property damage and/or serious bodily injury.

- Use and maintenance of the PANELLIFT® Drywall Lift shall be limited to authorized personnel who are trained in the proper techniques for its safe operation and maintenance and who are familiar with the various hazards of overhead material handling.
- As with any lifting equipment, **ALWAYS WEAR A HARD HAT** when operating the PANELLIFT® Drywall Lift and keep children away from the work area. Failure to do so could result in serious bodily injury.
- **DO NOT ATTEMPT TO USE YOUR PANELLIFT® Drywall Lift IF ANY PART IS MISSING, DAMAGED OR WORN. ORDER A REPLACEMENT PART IMMEDIATELY.** Using a PANELLIFT® Drywall Lift with missing, damaged or worn components can result in failure of the unit and possibly severe property damage and/or serious bodily injury.
- **INSPECT THE CHAIN ASSEMBLIES BEFORE EACH USE. REPLACE AT THE FIRST SIGN OF DAMAGE OR WEAR.** A worn, damaged or improperly installed chain can fail resulting in a sudden and rapid lowering of the lift and the load and possibly resulting in serious property damage and/or serious bodily injury. Inspect the chains by extending the lift fully and examining the full length of each lift chain for signs of damage or wear.
- **The weight capacity of the PANELLIFT® Drywall Lift is 150 lbs. (68 kg). DO NOT load the unit beyond this limit. When loading wallboard (or similar building panels), load only one sheet of wallboard at a time.** Failure to follow this warning can result in an unstable load and/or damage to the PANELLIFT® Drywall Lift contributing to a sudden failure of the machine and serious property damage and/or serious bodily injury.
- **DO NOT TAMPER WITH OR ADJUST** the setting of the hydraulic pump on the PANELLIFT® Drywall Lift. This is factory preset for the load range of the intended use of the lift. Altering this factory setting can subject the components of the lift to stresses and loads that they were not designed to carry. This can result in failure of the unit which may include a sudden and rapid lowering


of the lift and the load possibly resulting in serious property damage and/or serious bodily injury.


- **DO NOT ROLL** a loaded PANELLIFT® Drywall Lift while the load is raised. Always keep the load lowered until the lift is in place beneath the space in which the load will be installed. Rolling a PANELLIFT® Drywall Lift while the load is raised can result in tipping the lift and load possibly resulting in serious property damage and/or serious bodily injury.
- Operate the PANELLIFT® Drywall Lift only on hard, flat, level surfaces free of obstructions, debris, clutter, pits, holes or openings. Failure to follow this warning can result in tipping the lift and/or load possibly resulting in serious property damage and/or serious bodily injury.
- The PANELLIFT® Drywall Lift is designed exclusively as a material lift and shall be used for no other purpose. The PANELLIFT® Drywall Lift is not a personnel lift or platform and shall not be used as such. Using the PANELLIFT® Drywall Lift for purposes other than a material lift can subject the unit to stresses and loads that it was not designed to carry. This can result in failure of the unit which may include a sudden and rapid lowering of the lift and the load possibly resulting in serious property damage and/or serious bodily injury.
- The PANELLIFT® Drywall Lift is made of steel which conducts electricity. Keep the unit away from live electrical wires. Failure to do so could result in electrocution.
- Use only factory authorized replacement parts. Installation of other parts can compromise the safe design of the PANELLIFT® Drywall Lift and may cause failure of the unit possibly resulting in serious property damage and/or serious bodily injury.
- Moving the PANELLIFT® Drywall Lift from a cold environment to a warm one may cause condensation to form on metal surfaces creating a potential for malfunction. Such malfunction could possibly result in serious property damage and/or serious bodily injury: Allow the unit to reach working room temperature before operating.
- **Keep** hands, hair, and clothing away from chains and movable telescoping sections.


Questions? - Call Paragon Pro Manufacturing Solutions Customer Service at 1-800-448-0822 or 701-775-0551


Warning


Read and follow these warnings and the instructions that follow. Failure to do so could result in serious property damage and/or serious bodily injury.


 Worn, damaged or improperly installed chain can fail possibly resulting in serious injury and/or property damage. **INSPECT CHAIN FREQUENTLY. REPLACE WHEN WORN.**


 Use only genuine PANELLIFT® Brand Wallboard Lift replacement parts installed according to manufacturer's instructions by qualified personnel.


 Only parts listed in the parts index are user serviceable or installable. All other parts require factory service or installation. Call 800-441-0551 for prompt factory service.


 **DO NOT** tamper with the factory preset hydraulic limits. Adjusting hydraulic limits can expose the PANELLIFT® Brand Wallboard Lift to forces for which it is not designed. This may result in failure and serious injury and/or property damage.


 As with any lifting equipment, always **WEAR A HARD HAT** when operating unit.


 The load rating of the PANELLIFT® Brand Wallboard Lift is 150 lbs. **DO NOT** load the unit beyond this limit. Load only one sheet of wallboard at a time.


 **DO NOT** contact battery terminals with metal components of the PANELLIFT® Brand Wallboard Lift. **OBSERVE ALL WARNINGS ON THE BATTERY.**


 Use only the wiring harness, battery & charger as supplied by the manufacturer. **DO NOT REVERSE THE POLARITY OF THE WIRING HARNESS.**

 **DO NOT** operate the PANELLIFT® model 460 where combustible gases are present.

 **DO NOT** attempt to use the PANELLIFT® Wallboard Lift if any part is missing, damaged, or worn. Order a replacement part immediately. **DO NOT** use if telescoping sections have been damaged, bent, heated or welded. **DO NOT** weld on unit.

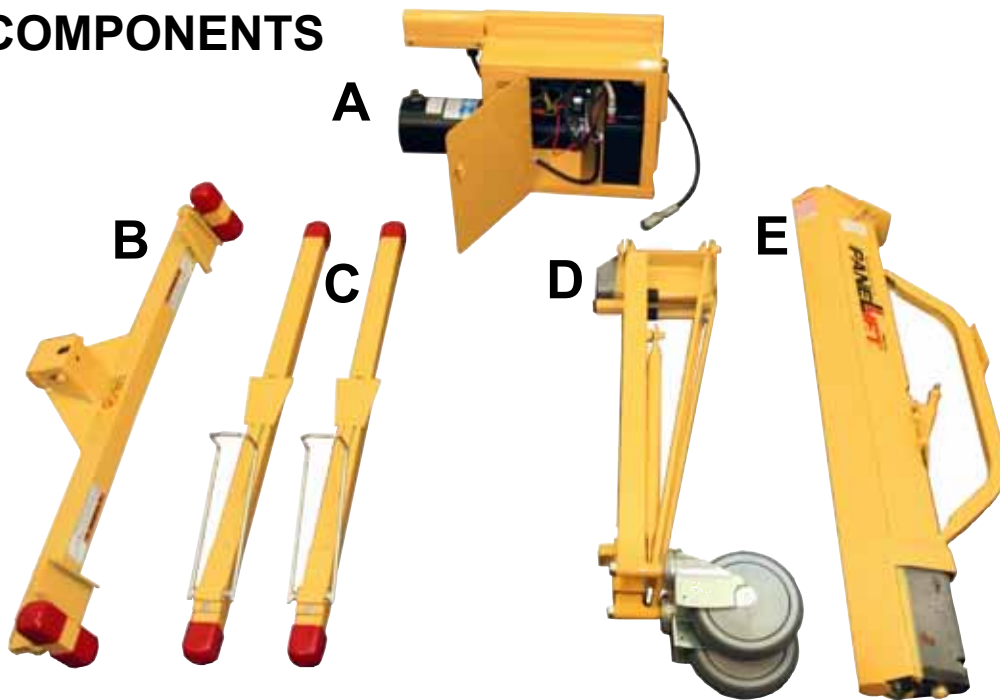
 Keep hands, clothing, and hair away from chains and movable telescoping sections.

 **DO NOT** operate unit under the influence of alcohol or other substances which may impair operator judgement.

 Use of this equipment shall be limited to authorized personnel who have been trained in the proper techniques for safe operation and maintenance.

Questions? - Call Paragon Pro Manufacturing Solutions Customer Service at 1-800-448-0822 or 701-775-0551

USER COMPONENTS



- A. Power unit with hydraulic pump, 1 Battery, on board charger
- B. Cradle assembly - less detachable cross arms
- C. Cradle Cross arms (1 pair)
- D. Complete Tripod Base Assembly
- E. Complete Frame Assembly with chain driven telescoping sections

SPECIFICATIONS:

- **Wall BOaRd SizE CapaCity** - Up to 4' x 16' (122 cm x 488 cm)
- **ShEEt Quantity CapaCity** - Single
- **IO ad Rating** - 150 lbs. (68 kg) **DO NOT EXCEED**
- **Maxi MuM hEight** - 15' (457 cm); 16' 6" (503 cm) with optional 18" extension
- **IO ading hEight** - 40" (102 cm)
- **nEt WEight** - Approximately 180 lbs. (82 kg)
- **pOWER SOuRCE** - 12 volt DC/hydraulic; sealed battery.
- **l iFt SpEEd und ER IO ad** - Lift 150 lbs. up to 15 feet in approximately 12 seconds.
- **nOISE IE vEI OF MOt OR und ER OpERati On** - Approximately 75 decibels

dESign Ed FOR OpERati On On ha Rd, IE vEI SuRFaCE at ROOM tEM pERatu RE in a dRy Envi RONMEnt - AVOID MOISTURE AND WATER.

SEE PAGES 1-2 FOR IMPORTANT OPERATIONAL WARNINGS

ASSEMBLY



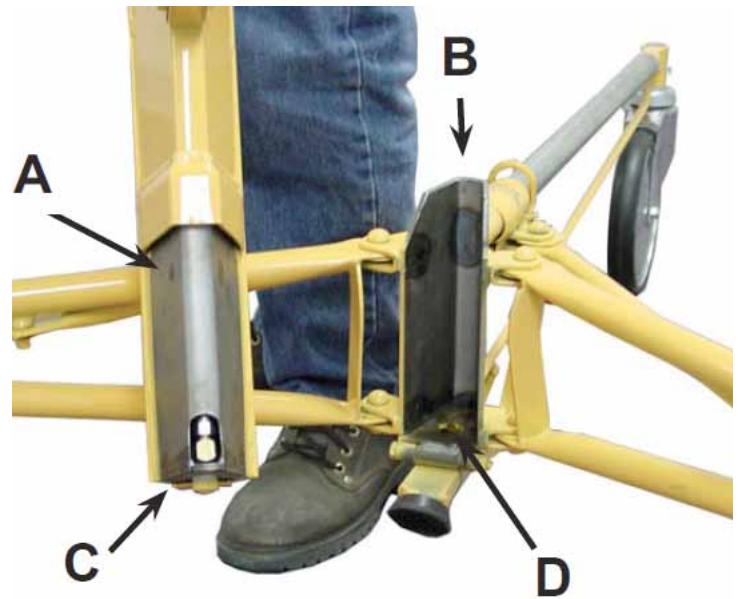
1. FOR INITIAL USE INSTALL THE THREE 8" CASTERS IN THE TRIPOD BASE AND SECURE WITH BOLTS AND NUTS PROVIDED.



3. PLACE THE FRAME ASSEMBLY ON THE TRIPOD BASE.



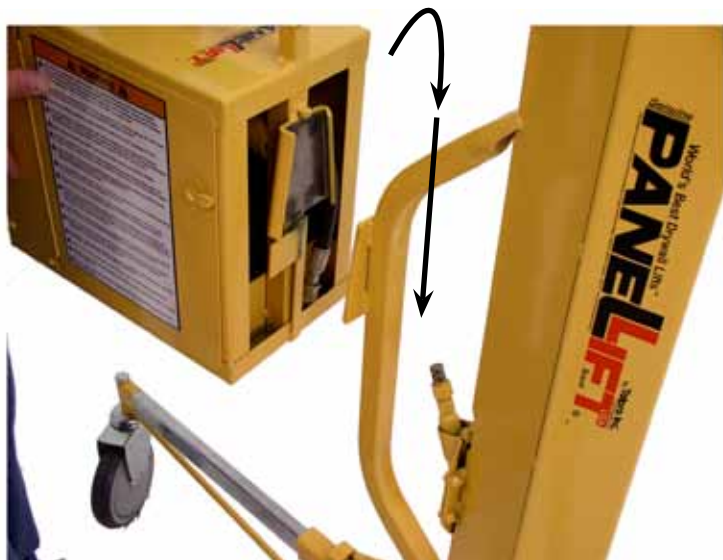
2. BEGIN BY SETTING UP THE TRIPOD BASE: PRESS DOWN ON THE SLIDE YOKE PIN CLIP AND SWING THE OUTER LEGS OUT UNTIL THEY LOCK IN THE WORKING POSITION (NOTE THE HOLES ON THE BOTTOM OF THE SLIDE TUBE).



4. POCKET A SLIDES OVER ANGLE B ALIGN HEX NUT C WITH HOLE D.



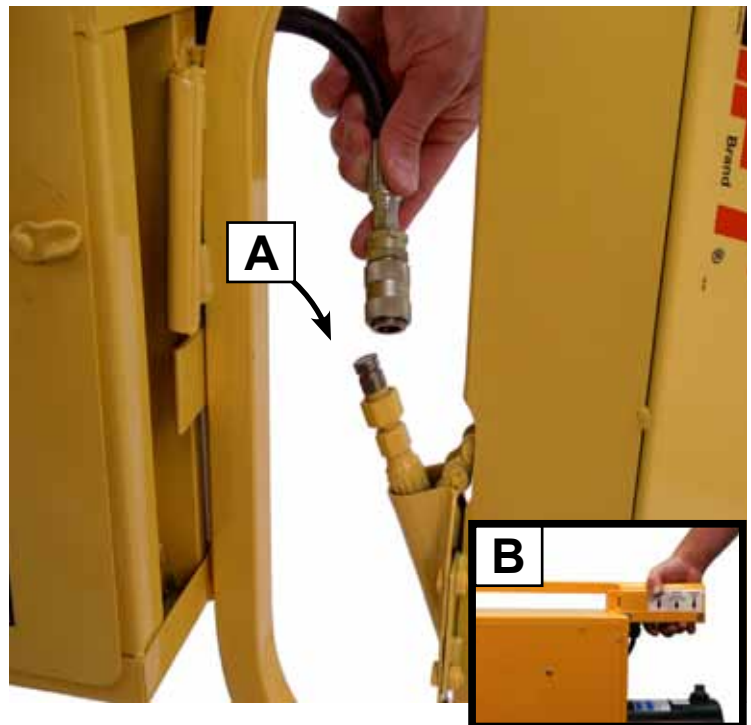
5. TO HOLD THE TRIPOD BASE IN POSITION DURING THIS PROCEDURE SET THE BACKSTOP AS SHOWN.



6A. ATTACH POWER BOX TO FRAME ALIGNING THE TAPERED PLATE OF THE FRAME WITH THE TAPERED SLOT OF THE POWER BOX.



6B. SLIDE THE POWER BOX DOWN MAKING SURE THAT THE TAPERED PLATE AND TAPERED SLOT ALIGN UNTIL THE PLATE BOTTOMS OUT AND LOCKS IN PLACE.



7. (A) ATTACH THE HYDRAULIC HOSE QUICK CONNECTOR FEMALE TO THE MALE CONNECTOR ON THE FRAME. (B) IF PRESSURE HAS BEEN APPLIED TO THE HOSE WHEN NOT CONNECTED YOU WILL NEED TO RELIEVE THE PRESSURE BEFORE YOU CAN CONNECT. PUSH THE "LOWER LIFT" BUTTON ON THE CONTROL AND IT WILL RELIEVE THE PRESSURE AND ALLOW YOU TO CONNECT THE COUPLER. BATTERY MUST BE FULLY CHARGED AND CONNECTED INSIDE THE POWERBOX.

ASSEMBLY continued



8. OPEN POWER BOX AND CONNECT BATTERY USING EASY CONNECT WIRING HARNESS.



10. MOUNT THE CRADLE ON TOP OF THE TELESCOPING SECTIONS. PULL OUT ON THE TILT LATCH TO ALLOW THE CRADLE TO TILT FOR LOADING AND FOR HANGING DRYWALL ON SIDEWALLS AND SLOPED CEILINGS.

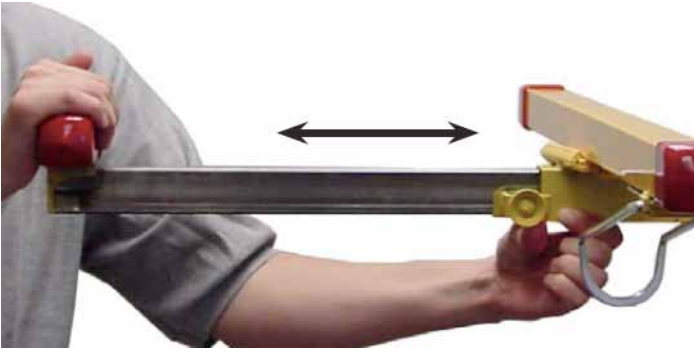


9. LIFT UP AND PULL BACK ON TELESCOPING RETAINING CAP.



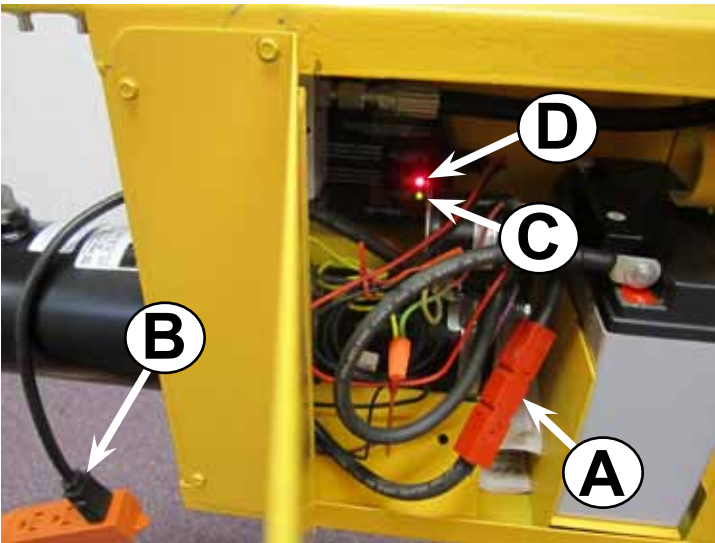
11. PLACE THE TAPERED PLATES OF THE CROSS ARMS INTO THE TAPERED SOCKETS ON THE CRADLE. THE SPRING TAB ON THE BACK OF THE CROSS ARM WILL LOCK IT INTO PLACE.

ASSEMBLY continued



12. TO EXTEND THE OUTRIGGERS FOR USE, PULL OUT ON THE OUTRIGGER LOCK PIN WITH YOUR ONE HAND AND SLIDE THE OUTRIGGER OUT WITH YOUR OTHER HAND AS SHOWN. THE LOCK PIN WILL ENGAGE AT THREE DIFFERENT POINTS ON THE OUTRIGGER: FULLY RETRACTED. EXTENDED 21". OR EXTENDED 33".

MAKE SURE THAT THE LOCK PINS ARE ENGAGED IN ONE OF THESE THREE POSITIONS BEFORE LOADING THE UNIT. **DO NOT** USE THE **PANELLIFT®** WITH THE OUTRIGGERS EXTENDED BEYOND THE 33" POINT. RETRACT THE OUTRIGGERS WHEN STORING OR TRANSPORTING THE UNIT.



13. THE 460 IS EQUIPPED WITH ITS OWN BUILT IN CHARGING UNIT. PLUG IN AND LET CHARGE BEFORE USE OR AFTER USE.

- Connect the battery cable ("A" above) prior to charging.
- Plug in charger ("B" above) to charge battery.
- Green light ("C" above) indicates power to the charger.
- Red light ("D" above) indicates battery is charged.

Disconnect battery cable ("A" above) when not in use. Long periods of non-use can discharge the battery sooner if the cable remains connected.

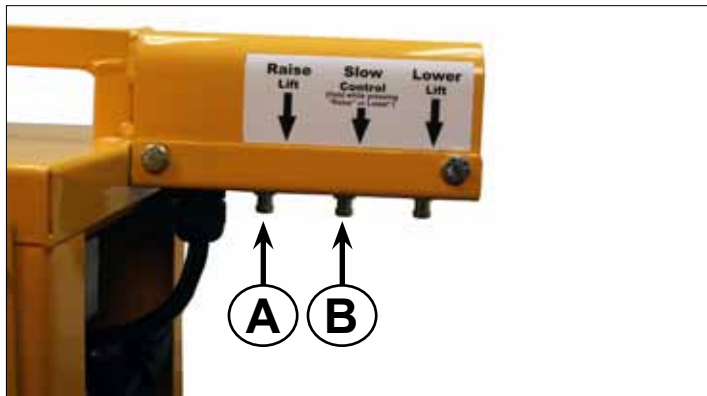
OPERATION



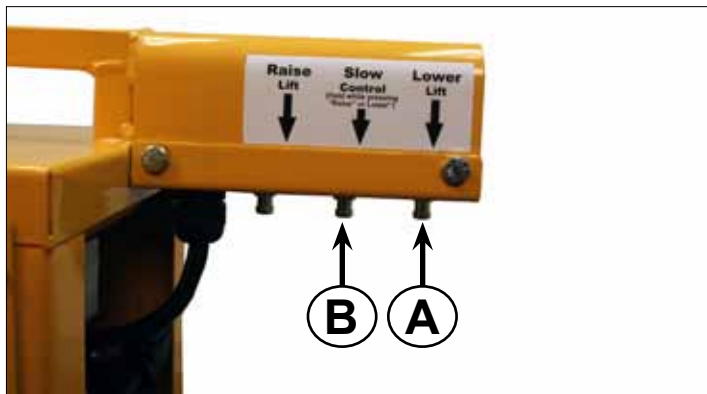
WHEN THE BACKSTOP IS SET, IT WILL KEEP THE UNIT FROM SHIFTING WHILE LOADING WALLBOARD OR WHILE INSTALLING THE FRAME ON THE TRIPOD BASE.



1. TO LOAD: Set the backstop on the tripod base to hold the unit in position. Extend the cradle outriggers to properly support the drywall. Tilt the cradle and swing out the cross arm support hooks. Load the PANELLIFT® Drywall Lift from the front as shown with the face paper of the drywall contacting the cradle.



2. TO RAISE the PANELLIFT® 460 Drywall Lift, press the **Raise Lift** switch ("A" above). Simultaneously press the **Slow Control** switch ("B" above) to slow the speed. When using the **Slow Control** switch, release the **Raise Lift** first when stopping to avoid having the lift "jump" slightly at the end of the lift.



3. TO LOWER the PANELLIFT® 460 Drywall Lift, press the **Lower Lift** switch ("A" above). Simultaneously press the **Slow Control** switch ("B" above) to slow the speed. When using the **Slow Control** switch, release the **Lower Lift** first when stopping to avoid having the lift "jump" slightly at the end of the retraction.

4. THE PANELLIFT® DRYWALL LIFT WILL HOLD DRYWALL IN POSITION ON SIDEWALLS AND SLOPED CEILINGS IN ADDITION TO LEVEL CEILINGS. THE CRADLE ALSO TILTS UP TO 10° LONGITUDINALLY.

USE THE BACKSTOP ON THE TRIPOD BASE WHEN WORKING ON SIDEWALLS AND SLOPED CEILINGS.

WHEN WORKING ON SLOPED CEILINGS, START AT THE PEAK AND WORK DOWN.



PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND MAY NOT SHOW ACTUAL PANELLIFT MODEL COVERED IN THIS MANUAL.

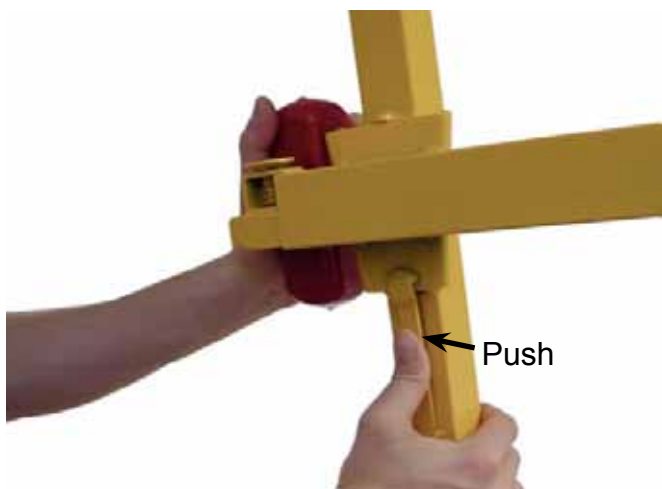
⚠ WARNING ⚠

DO NOT ROLL
a loaded PANELLIFT® Drywall Lift while the load is raised. Always keep the load lowered until the lift is in place beneath the space in which the loaded wallboard will be installed.

Rolling a PANELLIFT® Drywall Lift while the load is raised can result in tipping the lift and load possibly resulting in serious property damage and/or serious bodily injury.

DISASSEMBLY

Disassemble the PANELLIFT® Drywall Lift as follows for transport and compact storage.



1. WITH THE OUTRIGGERS FULLY RETRACTED, REMOVE THE CROSS ARMS BY PRESSING THE SPRING TAB ON THE BOTTOM AND SLIDING THE CROSS ARM OUT OF THE TAPERED SOCKET.



2. LOCK THE CRADLE TILT LATCH AND LIFT THE CRADLE OFF OF THE FRAME.



3. WITH THE TELESCOPING SECTIONS ALL THE WAY DOWN, CLOSE THE RETAINING CAP AS SHOWN. **ALWAYS CLOSE THE TELESCOPING SECTION RETAINING CAP WHEN TRANSPORTING UNIT. FAILURE TO DO SO WILL ALLOW THE TELESCOPING SECTIONS TO EXTEND FREELY, CAUSING SLACK IN THE CHAINS WHICH MAY JAM THE TELESCOPING SECTIONS.**



4. (A) PUSH THE "LOWER LIFT BUTTON IN ORDER TO MAKE SURE THE LIFT IS FULLY DOWN AND THAT THERE IS NO PRESSURE IN THE SYSTEM. (B) DISCONNECT THE QUICK COUPLER BY PULLING UP ON THE RELEASE SLEEVE.

DISASSEMBLY

Disassemble the PANELLIFT® Drywall Lift as follows for transport and compact storage.



5. TO REMOVE THE POWER BOX PRESS AND HOLD THE RELEASE TAB AS SHOWN WITH ONE HAND WHILE LIFTING THE BOX OFF THE FRAME WITH THE OTHER.

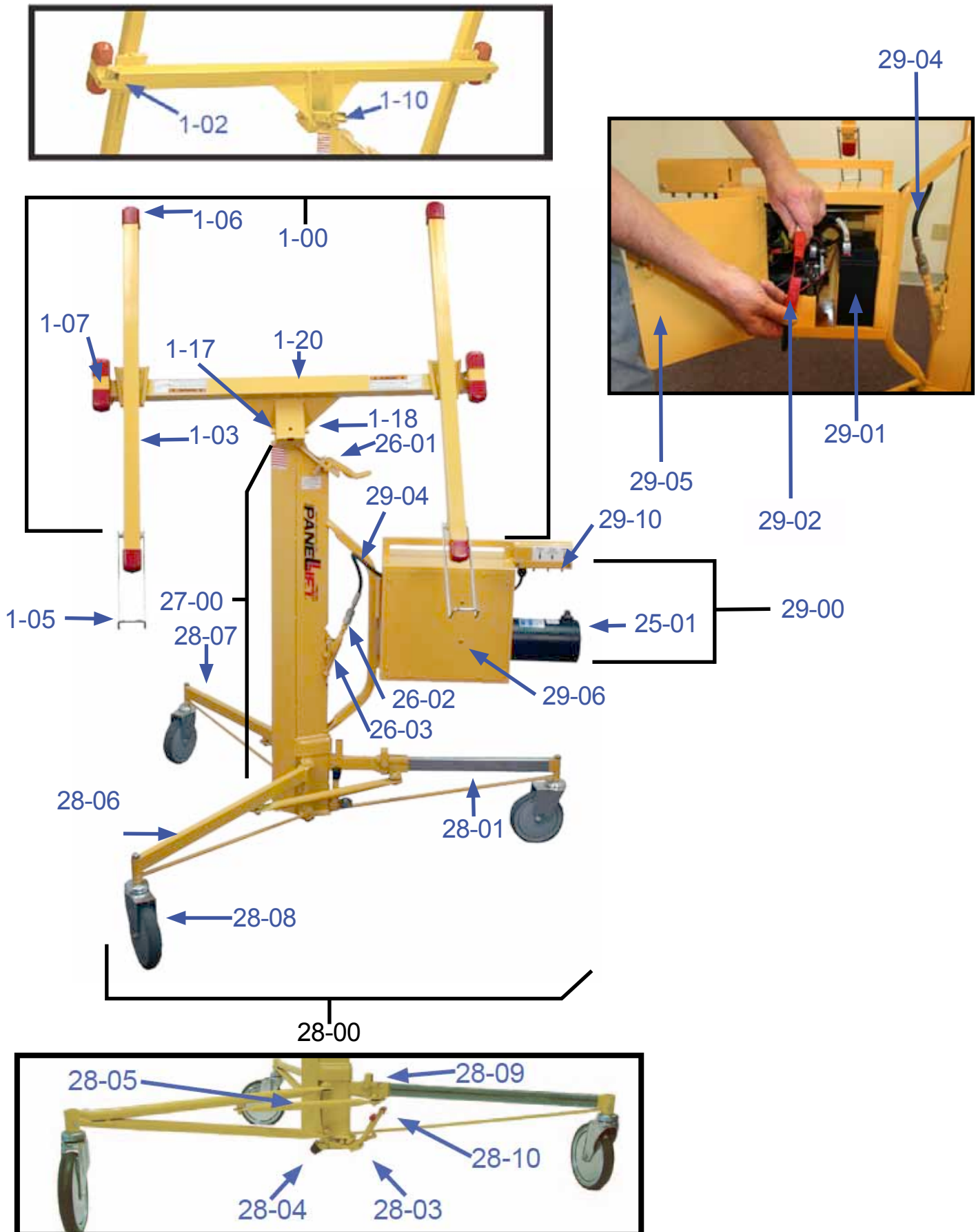


7. TO FOLD THE TRIPOD BASE, PRESS DOWN ON THE SLIDE YOKE PIN CLIP AND SWING THE LEGS IN UNTIL THEY LOCK IN THE CLOSED POSITION.



6. LIFT THE FRAME OFF THE TRIPOD BASE.

PARTS INDEX Model 460



CRADLE UNIT

Parts	Description	Parts	Description
1-00	Complete cradle assembly	1-07	Outrigger with end caps
1-02	Pull pin with fastener	1-10	Cradle tilt latch
1-03	Complete cross arm assembly	1-17	Complete mounting head assembly
1-05	Support hook with fastener	1-18	Complete mounting head spring kit
1-06	End cap	1-20	Cradle body

FRAME UNIT

Parts	Description	Parts	Description
27-00	Complete 460 Frame w/Curved Handle	29-01	3" Battery w/Harness
26-01	Retaining Cap Assembly	29-02	Battery Wiring Harness
26-02	Frame Hose Assembly	29-03	pump/ valve hose assembly (nOt ShOWN)
26-03	Frame Hose Cover	29-04	valve/Frame hose assembly
29-00	Complete power box	29-05	Right Hinge Panel w/Screws
25-01	Power unit w/harness	29-06	Left Solid Panel w/Screws
25-12	Charger 240 v (nOt ShOWN)	29-08	two-Speed valve w/Fasteners (nOt ShOWN)
25-13	Charger 120 v (nOt ShOWN)	29-10	Power Switches (individual)
		29-11	Power Switches (set of 3) w/Wiring Harness

TRIPOD BASE UNIT

Parts	Description	Parts	Description
28-00	Complete tripod base assembly	28-06	Left outer leg w/ fastener
28-01	Center leg	28-07	Right outer leg w/ fastener
28-03	Backstop leg assembly	28-08	8" caster with fastener
28-04	Backstop pad	28-09	Slide yoke pin clip w/fasteners
28-05	Tie arm with fastener	28-10	Backstop step arm covers

CARE & MAINTENANCE

- inspect chains FREQUEntly. (at least daily and before each use). Replace at the first sign of damage or wear or if they do not flex freely. Check that clips on master links are fully connected and not loose. (See Warnings on page 1-2)
- Keep the chains, chain rollers, and caster bearings lightly lubricated and do not expose them to moisture. Be careful not to over-oil, as excess drip oil may cause grit to accumulate between moving parts.
- Avoid dropping drywall screws and other debris into the telescoping sections and other openings in the PANELLIFT® Drywall Lift. They can cause jammed chains and possibly lead to damage to the lift.
- If needed, order replacement chains from Telpro Inc. Use only factory authorized replacement parts. Installation of other parts can compromise the safe design of the PANELLIFT® Drywall Lift possibly resulting in serious property damage and/or serious bodily injury.
- Apply household paraffin to the surfaces of the telescoping sections, for smoother action.
- Store the PANELLIFT® Drywall Lift in a dry place.
- Take reasonable care to avoid damaging the PANELLIFT® Drywall Lift when transporting it.
- Do not hammer on any members or components of the PANELLIFT® Drywall Lift.

This product contains trace amounts of the following items which are known to cause cancer and/or developmental harm in the state of California.

These chemicals are not hazardous under product's intended use.

Please review CAS# for more information.

Chemical	Hazard	CAS#	% By Weight
Arsenic	Cancer	7440-38-2	Trace
Cadmium	Developmental	7440-43-9	Trace
Chromium	Cancer, Developmental	7440-47-3	Trace
Ethylbenzene	Cancer	100-41-4	Trace
Lead	Cancer	7439-92-1	Trace
Methanol	Developmental	67-56-1	Trace
Methylene Chloride (Dichloromethane)	Cancer	75-09-2	Trace
Nickel	Cancer	7440-02-0	Trace
Propylene glycol monobutyl ether	Cancer	5131-66-8	Trace
Toluene	Developmental	108-88-3	Trace
Carbon Black	Cancer	1333-86-4	Trace



Questions about assembly?

Can't find a part?

Need some other help?

Call us:

1(800)448.0822

(701)775.0551

We'll get you set up!