World's Best Drywall Lifts™

Genuine PANELLIFT USA Brand

HANGPRO™

OPERATOR'S MANUAL

Model 150

⚠ 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

© 2018 Paragon Pro Manufacturing Solutions All Rights Reserved

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 PANEL-LIFT® Brand Drywall Lift, and revolutionized the drywall industry. To this day we are continuously making advancments 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
MANUFACTURING SOLUTIONS

CONTENTS

Warning / Instructional Information . . . . . Page 1

Cable Inspections/Replacement . . . . . Page 2

Care and Maintenance . . . . . Page 3

Components . . . . . Page 4

Tools . . . . . Page 4

Assembly . . . . . Pages 5 - 7

Operation . . . . . Pages 8 - 9

Parts Index . . . . . Page 10

Safety Information . . . . . Page 11

Warranty . . . . . Page 12

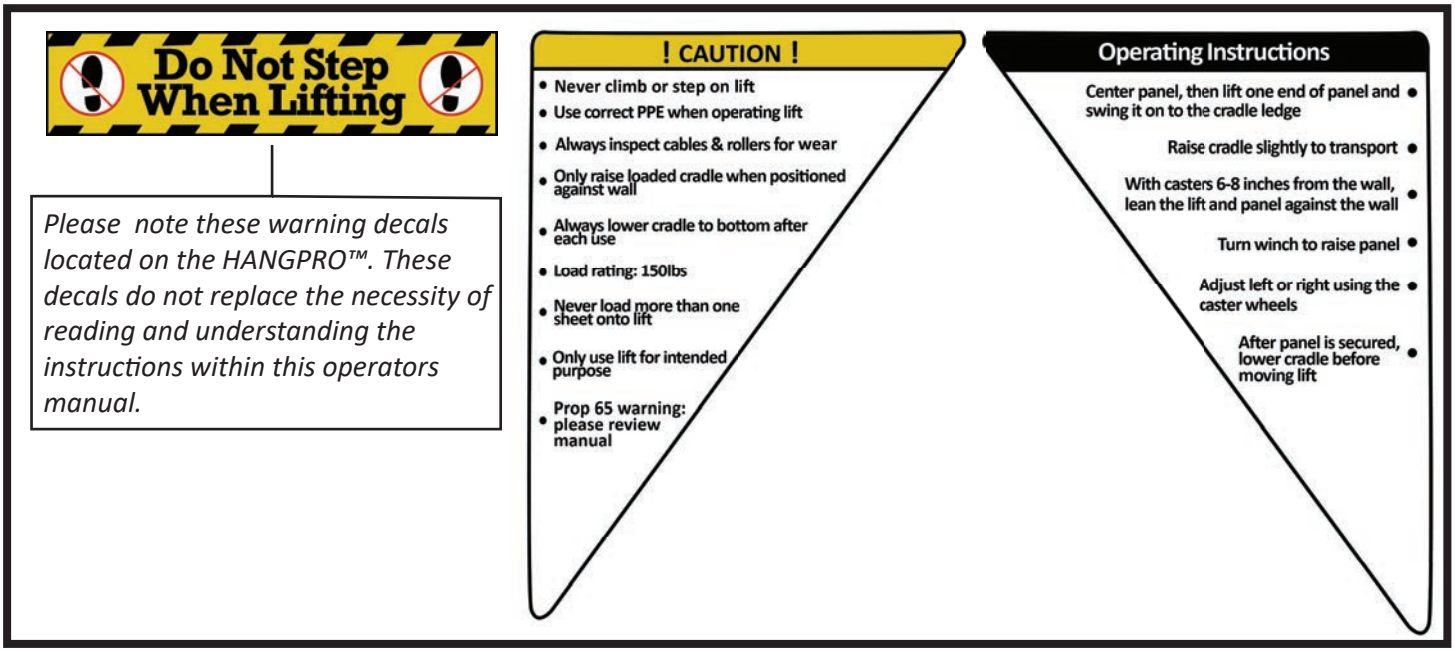
ALL PHOTOS ARE FOR ILLUSTRATIVE PURPOSES ONLY.

ALWAYS WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

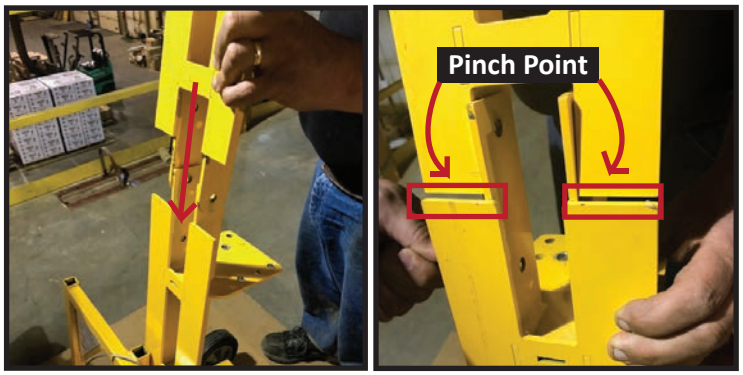
⚠ WARNING ⚠

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.

Decal Warnings:



Please note these warning decals located on the HANGPRO™. These decals do not replace the necessity of reading and understanding the instructions within this operators manual.



Caution When Assembling your HangPro™

Insert BOTH 3' x 3/8" bolts and 3/8" Nylock nuts. FAILURE TO INSERT BOTH BOLTS COULD RESULT IN THE UPPER MAST PIVOTING RAPIDLY DOWNWARD, POTENTIALLY CAUSING PROPERTY DAMAGE OR SERIOUS INJURY.

Caution When Assembling your HangPro™

Align the Upper Mast Assembly with the Lower Mast Assembly so the two bolt holes line up. THIS IS A PINCH POINT. KEEP HANDS AWAY FROM THE JOINT WHERE THE UPPER AND LOWER MASTS MEET.

IN A DRY ENVIRONMENT ***AVOID MOISTURE AND WATER***

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

ASME Standards for wire rope (cable) inspection and replacement

Reprinted with permission from ASME B30.19 Cableways

The following is intended as a helpful guide to the general topic of inspection and replacement of wire rope (cable). It is not intended to be an exhaustive treatment of the topic. Frequent inspection (at least daily) by a competent person and prompt replacement of any cable that shows any sign of wear is the responsibility of the owner and the operator of the PANELLIFT® Drywall Lift.

With reference to the chart below at 19-2.4.3(b)(6) the Panellift® Drywall Lift cable is a nominal 1/8" high tensile cable (rope).

(00) General

…

The use of cableways, cranes, derricks, hoists, hooks, jacks, and slings is subject to certain hazards that cannot be met by mechanical means but only by the exercise of intelligence, care, and common sense. It is therefore essential to have personnel involved in the use and operation of equipment who are competent, careful, physically and mentally qualified, and trained in the safe operation of the equipment and the handling of the loads. Serious hazards are overloading, dropping or slipping of the load caused by improper hitching or slinging, obstructing the free passage of the load, and using equipment for a purpose for which it was not intended or designed.

…

Section 19-2.4: Rope Inspection, Replacement, and Maintenance

19-2.4.1 General. Sheave diameters, drum diameters, and rope design factors are limited because of cableway design configuration. Due to these parameters, inspection in accordance with para. 19-2.4.2 to detect deterioration and timely replacement in accordance with para. 19-2.4.3 are essential.

19-2.4.2 Inspection

(a) Frequent Inspection

(1) All running ropes in service should be visually inspected once each working day. A visual inspection shall consist of observation of all rope that can reasonably be expected to be in use during the day's operations. These visual observations should be concerned with discovering gross damage that may be an immediate hazard, such as listed below:

(a) distortion of the rope such as kinking, crushing, unstranding, birdcaging, main strand displacement, or core protrusion. Loss of rope diameter in a short rope length or unevenness of outer strands should provide evidence that the rope or ropes are to be replaced.

(b) general corrosion;

(c) broken or cut strands;

(d) number, distribution, and type of visible broken wires [see paras. 19-2.4.3(b)(1), (2), and (7) for further guidance];

(e) core failure in rotation-resistant ropes; when damage is suspected, the rope shall either be removed from service or given an inspection as detailed in para. 19-2.4.2(b).

(2) Care shall be taken when inspecting sections of rapid deterioration, such as flange points, crossover points, and repetitive pickup points on drums.

(3) Care shall be taken when inspecting certain ropes, such as rotation-resistant ropes, because of their higher susceptibility to damage and increased deterioration when working on equipment with limited design parameters. The internal deterioration of rotation-resistant ropes may not be readily observable.

(b) Periodic Inspection

(1) The inspection frequency shall be determined by a qualified person and shall be based on such factors as expected rope life (determined by experience on the particular installation or similar installations), severity of environment, percentage of capacity lifts, frequency rates of operation, and exposure to shock loads. Inspections need not be at equal calendar intervals and should be more frequent as the rope approaches the end of its useful life. The inspection shall be made at least every 1000 hr of cableway operation or annually, whichever comes first.

(2) Periodic inspections shall be performed by an appointed or authorized person. This inspection shall cover the entire length of rope. Only the surface wires of the rope need be inspected. No attempt should be made to open the rope. Any deterioration resulting in appreciable loss of original strength, such as described below, shall be noted, and a determination shall be made as to whether further use of the rope would constitute a hazard:

(a) points listed in para. 19-2.4.2(a):

(b) reduction of rope diameter below nominal diameter due to loss of core support, corrosion, or wear of outside wires;

(c) severely corroded or broken wires at end connections;

(d) severely corroded, cracked, bent, worn, or improperly applied end connections.

(3) Care shall be taken when inspecting sections of rapid deterioration, such as the following:

(a) sections in contact with saddles, equalizer sheaves, or other sheaves, including track cable sheaves, where rope travel is limited;

(b) sections of the rope at or near terminal ends where corroded or broken wires may develop.

19-2.4.3 Rope Replacement

(a) No precise rules can be given for determination of the exact time for rope replacement, since many variable factors are involved. Once a rope reaches any one of the specified removal criteria, it may be allowed to operate to the end of the work shift, based on the judgment of a qualified person. The rope shall be replaced after that work shift, at the end of the day, or at the latest time prior to the equipment being used by the next work shift.

(b) Removal criteria for rope replacement shall be as follows:

(1) In running ropes, six randomly distributed broken wires in one lay, or three broken wires in one strand in one lay.

(2) One outer wire, broken at the contact point with the core of the rope, that has worked its way out of the rope structure and protrudes and loops out from the rope structure. Additional inspection of this section is required.

(3) Wear of one-third the original diameter of outside individual wires.

(4) Kinking, crushing, birdcaging, or any other damage resulting in distortion of the rope structure.

(5) Evidence of heat damage from any cause.

(6) Reductions from nominal diameter greater than those shown below:

Rope Diam.	Max. Allowable Reduction From Nominal Diam.
Up to 5/16 in. (8 mm)	1/64 in. (0.4 mm)
Over 3/8 in. up to 1/2 in. (13 mm)	1/32 in. (0.8 mm)
Over 9/16 in. up to 3/4 in. (19 mm)	3/64 in. (1.2 mm)
Over 7/8 in. up to 1 1/8 in. (29 mm)	1/16 in. (1.6 mm)
Over 1 1/4 in. up to 1 1/2' in. (38 mm)	3/32 in. (2.4 mm)

(7) In standing ropes, more than two broken wires in one lay in sections beyond end connections, or more than one broken wire at an end connection.

(c) Broken wire removal criteria cited in this Volume apply to wire rope operating on steel sheaves and drums. The user shall contact the sheave, drum, or cableway manufacturer, or a qualified person for broken wire removal criteria for wire ropes operating on sheaves and drums made of material other than steel.

(d) Replacement rope shall have a nominal strength rating at least equal to the original rope furnished or recommended by the cableway manufacturer or designer, or a qualified person. Any deviation from the original size, grade, or construction shall be specified by the rope manufacturer, the cableway manufacturer or designer, or a qualified person.

(e) Ropes Not in Regular Use. All rope that has been idle for a period of a month or more due to shutdown or storage of a cableway on which it is installed shall be given an inspection in accordance with para. 19-2.4.2(b) before it is placed in service. This inspection shall be for all types of deterioration and shall be performed by an appointed or authorized person.

(f) Inspection Records

(1) Frequent inspection-no records required.

(2) Periodic inspection - in order to establish data as a basis for judging the proper time for replacement, a dated report of rope condition at each periodic inspection shall be kept on file. This report shall cover points of deterioration listed in para. 19-2.4.2(b)(2).

(g) A long-range inspection program should be established and should include records on examination of rope removed from service so a relationship can be established between visual observation and actual condition of the internal structure.

CARE AND MAINTENANCE

- Inspect cable FREQUENTLY.
  (At least daily and before each use) Replace at the first sign of wear.

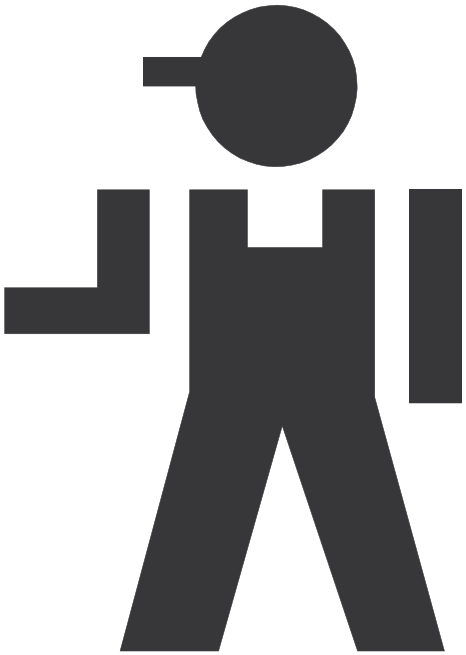
- Occasionally oil the cable sheaves and caster bearings.

- Store the HANGPRO™ Drywall Lift in a dry place.

- Apply household paraffin to the surfaces of the telescoping sections, for smoother action.

- Take reasonable care to avoid damaging the HANGPRO™ Drywall Lift when transporting it.

- Do not hammer on any members or components of the HANGPRO™ Drywall Lift.



COMPONENTS

A: Square Cradle
B: Upper Mast
C: Wheel Leg
D: Lower Mast
E: Winch
F: Cable
G: Cable Keeper

TOOLS REQUIRED

• ADJUSTABLE WRENCH

• 5/8" WRENCH

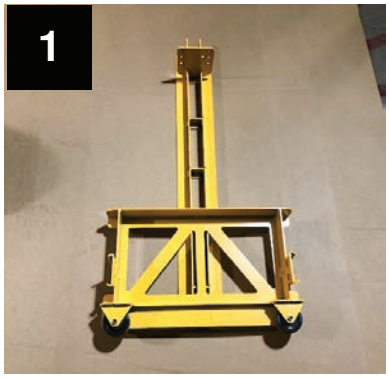
• 7/16 WRENCH

• 3/8" WRENCH

• 9/16" WRENCH

• FLATHEAD SCREWDRIVER

ASSEMBLY



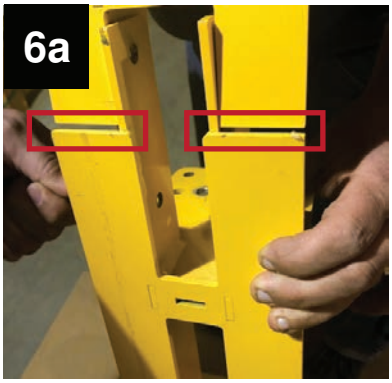
1. Place the Lower Mast Assembly face down on the floor as shown.

2. Attach the Wheel Leg Assembly to the Lower Mast Assembly with the

warning decal facing the top of the mast section. Insert the tapered tabs into the slots as shown.

3. Secure the Wheel Leg Assembly to the Lower Mast Assembly with two 3” x 3/8” Bolts and 3/8” Nylock nuts. Tighten with two 9/16” wrenches, or adjustable wrench.

4. Stand the assembled Lower Mast and Wheel Leg upright.

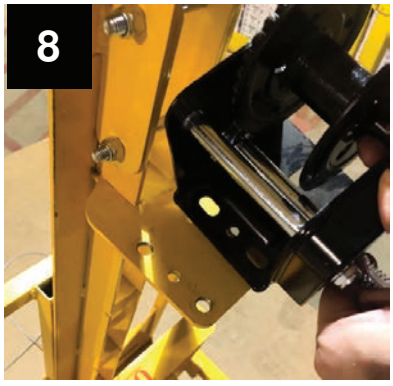


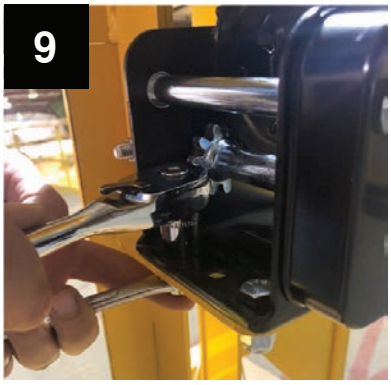
5. Align the channels on the back of the Square Cradle to the guide plates on the Lower Mast as shown, with the support hooks at the bottom and facing away from you. Carefully lower the Square Cradle to the floor.

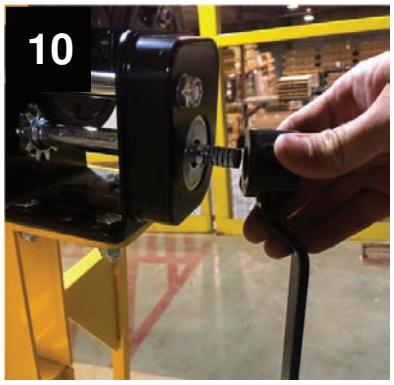
6. Align the Upper Mast Assembly with the Lower Mast Assembly so the two bolt holes line up.

6a. This is a PINCH POINT. KEEP HANDS AWAY FROM THE JOINT WHERE THE UPPER AND LOWER MASTS MEET.

7. Insert both 3” x 3/8” bolts and Nylock nuts. **FAILURE TO INSERT BOTH BOLTS COULD RESULT IN THE UPPER MAST PIVOTING RAPIDLY DOWNWARD, POTENTIALLY CAUSING PROPERTY DAMAGE OR SERIOUS INJURY.**





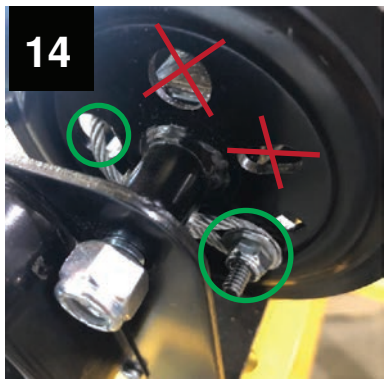


8. Place the winch on the mounting plate at the back of the HANGPRO™, with the gear side of the winch near the mast.

9. Insert three 7/8” x 3/8” bolts down through the winch base and mounting plate and attach the 3/8” Nylock nuts from beneath. Tighten with two 9/16” wrenches or adjustable wrench.

10. Attach the Winch Handle by pushing in and turning clockwise.

11. Secure the handle with the bolt, washer, spacer and spring provided with the winch as shown. Also noted in the accompanying Winch Manual. Tighten with a 3/8” wrench.

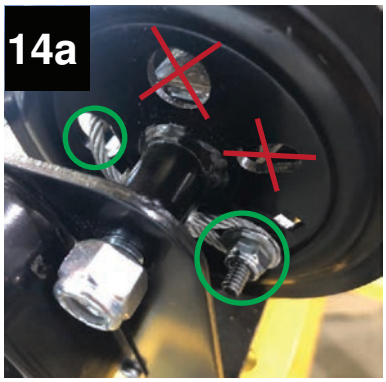


11a. It may be necessary to place a flathead screwdriver into the winch gears to prevent them from turning as you tighten the winch handle and winch handle bolt.

12. Unwrap the cable and string the loose end over the sheave at the top of the Mast. If the Cable Keeper is in place you may need to remove it by loosening the nut visible in fig.15 and 16. DO NOT REMOVE THE BOLT.

13. Run the cable over the Cable Roller and down through the opening in the upper handle as shown in the Image above.

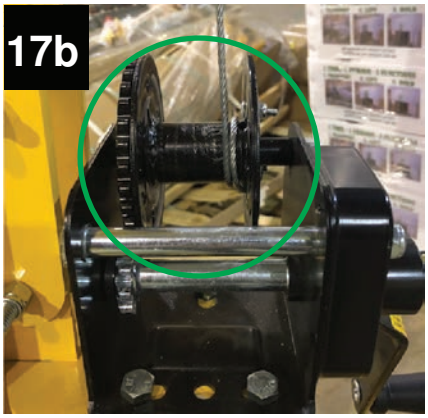
14. From inside the winch spool, thread the loop anchor of the cable through the round hole in the sidewall of the spool. Secure the loop with the carriage bolt, washer and nut provided.



14a. The carriage bolt head must be positioned through a square hole on the inside of the winch spool with the washer and nut on the outside of the spool wall. Tighten with 3/8" wrench.

15. Attach the Cable Keeper to the top of the Upper Mast.

16. Tighten the Cable Keeper with a 5/8 wrench and an adjustable wrench so the nut is firmly secured to the bolt. DO NOT OVERTIGHTEN! THE SHEAVE MUST BE ABLE TO TURN FREELY.



17a: Manually guide the cable so it begins wrapping at the right side of the spool as pictured. As you turn the winch, the cable will wind to the left.

17b: The image shown above shows the cable in an improper starting position at the left side of the spool.

OPERATION

PREPARING DRYWALL PANELS

Drywall panels are typically stocked leaning horizontally in small stacks against walls. When the drywall bundle is opened the first panel has to be flipped around so the good side of the panel is facing out.

LOADING A PANEL

Center the lift on the panel and position about an inch away from the panel. Lower the cradle to the floor. Lift one end of the panel onto the cradle support hooks. Lean the panel back against the cradle frame.

TRANSPORTING

Turn the winch handle clockwise to raise the panel about 12 inches off the floor, with one hand holding the vertical handle and the other hand gripping the top edge of the panel, lean the lift back slightly onto the rear wheels and push like a hand truck. Lean the lift forward onto the front wheels to transport the loaded lift sideways through doorways and hallways.

POSITIONING

Position the lift so the casters are 8 to 12 inches away from the wall. While standing at the back of the lift, carefully lean the lift and panel forward onto the front wheels and againsts the wall. The lift will not kick away from the wall because the wheels do not pivot.

LIFTING AND HOLDING

With a firm grip on the horizontal handle, turn the winch handle clockwise to raise the panel. The winch auto locks and the panel will be held securely against the wall.

CAUTION: DO NOT RAISE THE PANEL OVER 24 INCHES UNLESS THE LIFT IS STANDING ON THE FRONT WHEELS AND THE PANEL IS LEANING AGAINST THE WALL.

USING THE FRONT WHEELS FOR PRECISE POSITIONING
When the lift is leaned forward onto the front wheels it can be moved side-to-side for the precise positioning before or after lifting the panel.

REMOVING THE LIFT AFTER PANEL IS SECURED
Secure the panel to the wall. Turn the winch handle counter clockwise to lower the cradle before moving the lift.

TRANSPORTING THROUGH A DOORWAY OR HALLWAY
Load a panel as described on prior page. Turn the winch handle clockwise to raise the panel 6 to 12 inches off the floor. With one hand on the vertical handle and the other gripping the top edge of the panel, lean the lift and panel forward onto the front wheels. Position the lift so the end of the panel is pointing toward the doorway or hallway. Push the lift sideways on the front wheels.

PARTS INDEX

Part Number:	Description:
150-50	Lower Mast Assembly w/Fasteners
150-51	Upper Mast Assembly w/Fasteners
150-52	Square Cradle w/ Cable Fasteners
150-53	Wheel Leg Assembly w/Fasteners
150-54	Winch w/Fasteners
150-55	3” Wheel w/Fasteners
150-56	8” Wheel w/Fasteners
150-57	Cable w/Fasteners
150-58	Cable Sheave w/Fasteners
150-59	Cable Keeper w/Fasteners
150-60	Cable Roller w/Fasteners
150-61	Horizontal Handle Cover (pair)

SAFETY INFORMATION

This product contains trace amounts of the following items which are known to cause.
These chemicals are not hazerdous 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

WARRANTY

PARAGON PRO MANUFACTURING SOLUTIONS INC
LIMITED WARRANTY

TELPRO INC products manufactured by PARAGON PRO MANUFACTURING SOLUTIONS INC are warranted to be free from defects in material and workmanship under normal use for one year from date of purchase.

NOTE: The following components of the PANELLIFT® Model 439 Drywall Lift are warranted to be free from defects in material and workmanship under normal use for three years from date of purchase.

Part#	Description		
52-03	#35 chain assembly	52-05	#40 chain assembly
52-07	#50 chain assembly	52-09	1 1/4" #50 roller assembly
52-10	#Outer planet set w/ bronze	52-11	Drive assembly
52-11	#1/2" x 2 1/4" Shoulder bolt w/ fastners	52-15	Clutch assembly w/sprocket
52-16	#40 Winch drive chain		

If a TELPRO INC product is proven to be defective in material or workmanship within the covered time frame from the date of purchase, return the defective part to PARAGON PRO MANUFACTURING SOLUTIONS INC and we will either repair or replace the part at our option. We will neither assume nor authorize any other person to assume for us any other liability.

Written notice including commercial invoice detailing the nature of the defect, date of purchase, and the company from which you purchased your unit must be received and acknowledged by PARAGON PRO MANUFACTURING SOLUTIONS INC before any units may be returned. Shipping costs shall be the responsibility of the product purchaser.

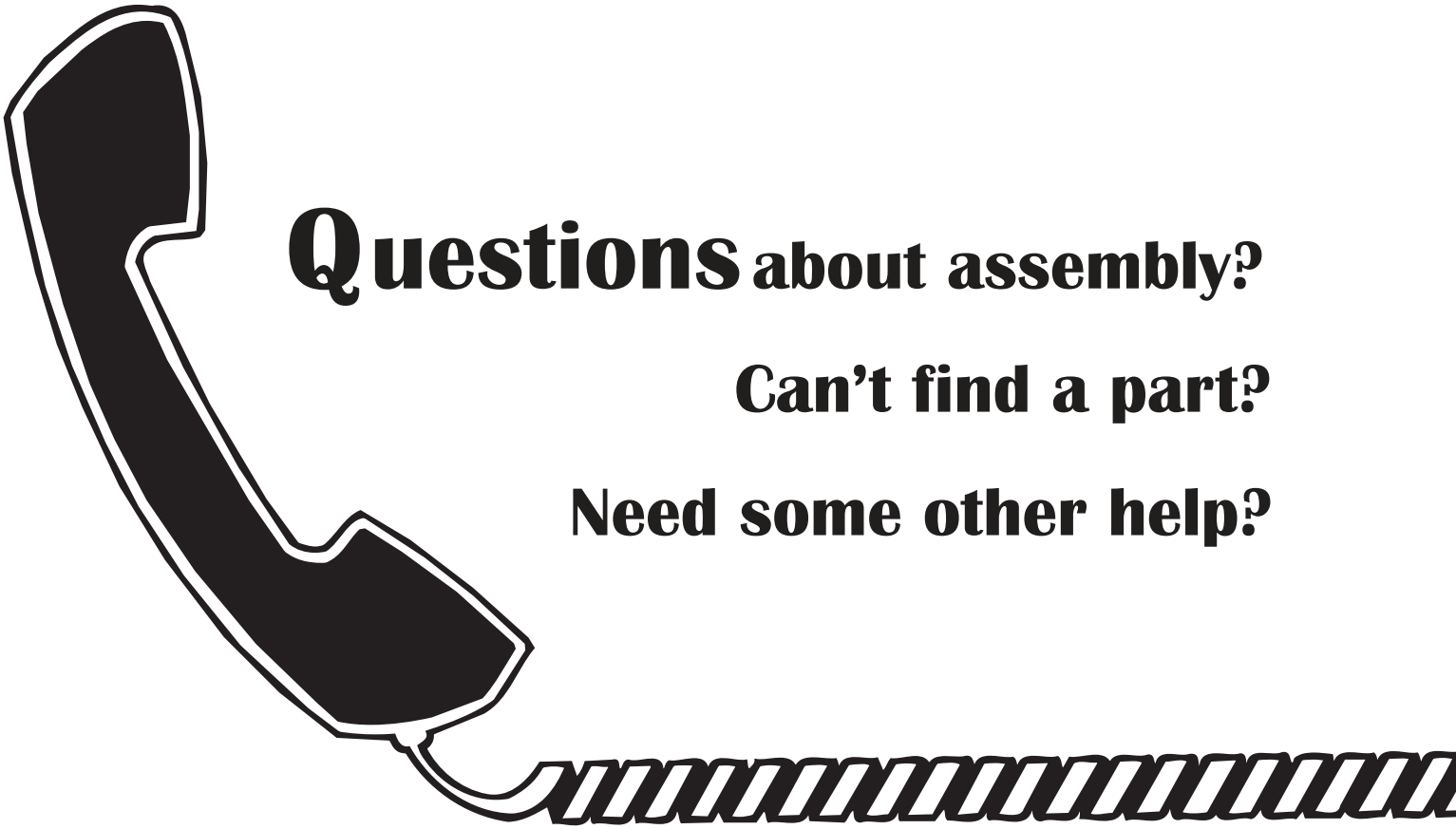
This warranty shall not apply to any equipment that has been repaired or altered outside of the factory in any way so as in our judgment to affect its stability or reliability nor which has been subjected to abuse, misuse, or negligence.

PARAGON PRO MANUFACTURING SOLUTIONS INC reserves the right to make changes or improvements in design without incurring obligation to install the same on previous units.

PARAGON PRO MANUFACTURING SOLUTIONS INC shall not be liable for loss, damage, or expense directly or indirectly from use of its products, their transportation, their repair, or from any other cause. Acceptance of the manufacturer's product constitutes agreement to the terms of this warranty and further that the manufacturer shall have no liability for any special or consequential damages.

This Warranty is in lieu of all warranties express or implied.

Fill in the following information, attach a copy of your sales receipt or invoice and file in a safe place.
Date of purchase: _____/_____/_____
Name& model# _____
Serial #: _____



Questions about assembly?

Can't find a part?

Need some other help?

Call us: PARAGON PRO MANUFACTURING SOLUTIONS

1.800.448.0822
701.775.0551

We'll get you set up!