



Atlas PRO12K 12,000 lb. Capacity Commercial 4-Post Lift



Atlas Automotive Equipment
www.atlasautoequipment.com
(866) 898-2604

Read this entire manual before operation begins.

Record below the following information which is located on the serial number data plate.

Serial No. _____

Model No. _____

Date of Installation _____

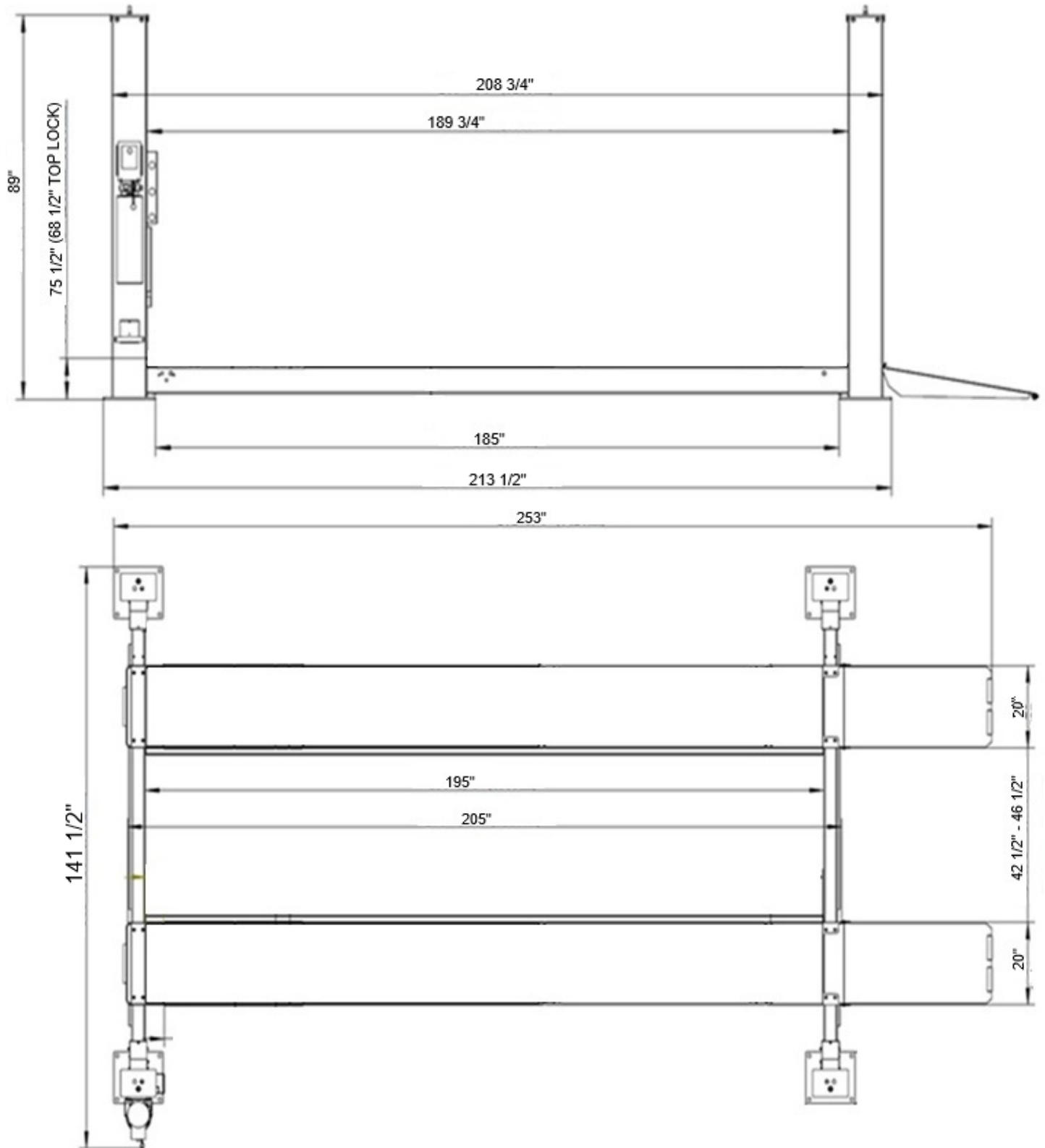
———— **Contents** ————

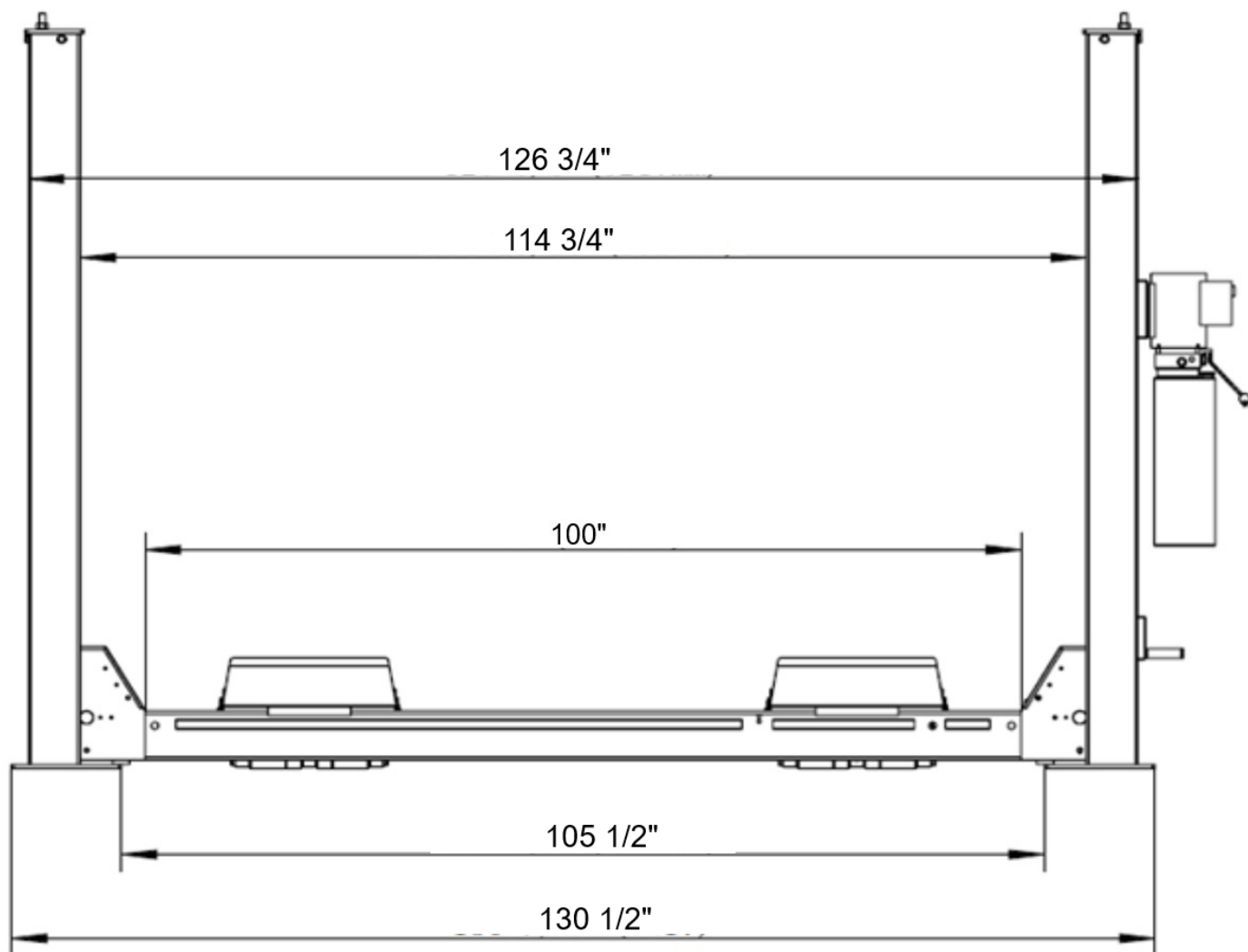
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Specifications

Capacity	12,000 LBS
Lifting Height (Top Lock)	68 1/2"
Clearance Under Runway (Top Lock)	62"
Overall Width w/ Motor	141 1/2"
Overall Width w/o Motor	130 1/2"
Overall Length w/ Ramps	253"
Overall Length w/o Ramps	213 1/2"
Length of Approach Ramps	49"
Runway Length	205"
Width Between Runway Rails	38 3/4" or 42 3/4"
Width Between Runways	42 1/2" or 46 1/2"
Runway Width	20"
Outside Runway to Outside Runway	82 1/2" or 86 1/2"
Runway Thickness	6 1/2"
Height of Columns	89"
Clearance Between Columns	114 3/4"
Drive Thru	100"
Motor	220volt/1PH/30A Breaker
Air Requirement	90-120 PSI

DIMENSIONS





Important Information

Please read this manual thoroughly before installing and operating the lift.

Warning: It is difficult to collect for damaged or lost items after you have given the freight carrier a clear receipt. If there is any damage to the product before assembly, notify the carrier at once! Ideally, freight damage should be reported to the freight carrier with a freight claim established at the time of drop off. **We are not responsible for freight damage.** Shortages or damage also must be reported within 7 business days to your local Atlas distributor.

The concrete floor where the lift will be installed must be a minimum of 4" in thickness. The concrete must have a minimum compressive strength of 3,000 PSI. Failure to comply could result in personal injury, property damage and / or unsatisfactory lift performance.

Do not raise the vehicle on the lift until the lift has been installed and adjusted correctly as described in this manual.

Lubricate all cable sheaves, bearings and shafts before installing the lift.

Motors and electrical components are not sealed against the weather and moisture. Install the lift in protected indoor location or use a protective cover for the motor.

Use **AW 32 or AW 46** hydraulic fluid. **Do not use TRANSMISSION FLUID.**

Tools Required for Installation

Concrete Rotary Hammer Drill with $\frac{3}{4}$ " carbide drill bit

12" Crescent Wrench

Open End Wrench Set

Phillips & Flat Head Screwdriver

Sledge Hammer

Retainer Ring Pliers

Electrical Pliers

4 foot Level

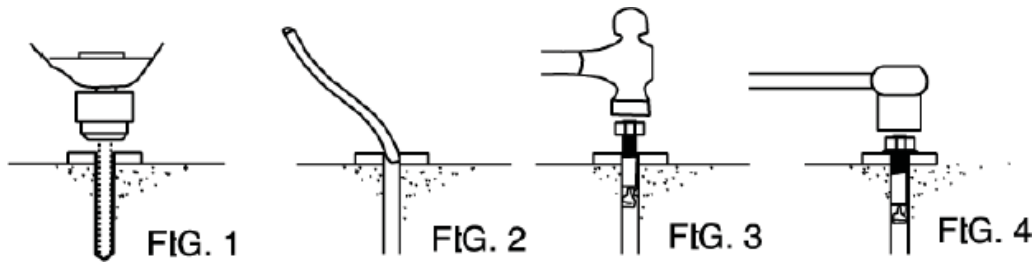
25 foot Tape Measure

Step Ladder

3-5 Gallons of Hydraulic Oil, SAE-10 or equivalent (AW 32 or
AW 46)

Installation requires multiple people. A forklift or other hoisting device will make the installation easier.

Anchoring Tip Sheet



1. Use a concrete hammer drill with a carbide tip, the same diameter as the anchor, 3/4". Do not use excessively worn bits or bits which have been incorrectly sharpened.
2. Keep the drill in a perpendicular line while drilling.
3. Let the drill do the work. Do not apply excessive pressure. Lift the drill up and down occasionally to remove residue to reduce binding.
4. Drill the hole to depth equal to the length of anchor.
5. For better holding power, blow dust from the hole.
6. Place a flat washer and hex nut over threaded end of anchor, leaving approximately 1/2 inch of thread exposed, and carefully tap anchor. Do not damage threads. Tap anchor into the concrete until nut and flat washer are against base plate. Do not use an impact wrench to tighten. Tighten the nut, two or three turns on average concrete (28-day cure). If the concrete is very hard, only one or two turns may be required.

Installation

IMPORTANT NOTICE

These instructions must be followed to ensure proper installation and operation of your lift. Failure to comply with these instructions can result in serious bodily harm, and void the product warranty. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied resulting from improper installation or use of this product.

Please read entire instruction before starting to assemble the lift

STOP!!!

**Open up the parts box and verify all parts are present
before beginning installation**



STEP 1: {Unloading & Unpacking}

1. After unloading the lift, place it at the installation site.
2. Remove the shipping bands and packing materials.
3. Remove the packing brackets and bolts holding the two columns together.

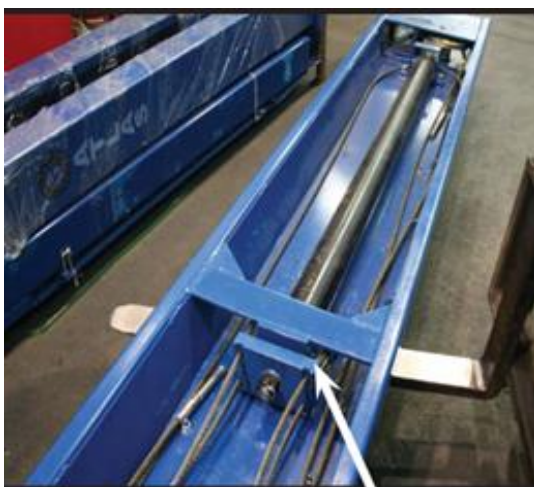
Do not discard the bolts; some may be needed in the assembly of the lift.

STEP 2: {Site Layout}

1. Once a location is determined, use a carpenter's chalk line to layout a grid for the column locations. **(CAUTION)** Keep all of the dimensions square to ensure proper operation and avoid damage to the lift.
2. Before assembling the lift, drive a vehicle into the installation position to check for adequate clearance.
3. **Note:** All four columns need to be level and square from front to back and side to side.

STEP 3: {Position the Lift Components}

1. Use a forklift or other lifting device to move the runways to the desired location. Use wooden blocks or jack stands under the runways to set them off of the ground and parallel to each other.
2. Turn the runway with the cylinder over (if not already). By hand, pull the cylinder shaft out to its maximum length.



Before



After

3. Place the columns and cross beams near their desired positions. The column with the power unit mounting bracket can be positioned at either the driver's front or passenger rear.

NOTE: If you have purchased an alignment kit with this lift or wish to add an alignment kit in the future, the power unit column must be positioned at the driver's front position (the runways are only drilled to accept the alignment kit in one position).

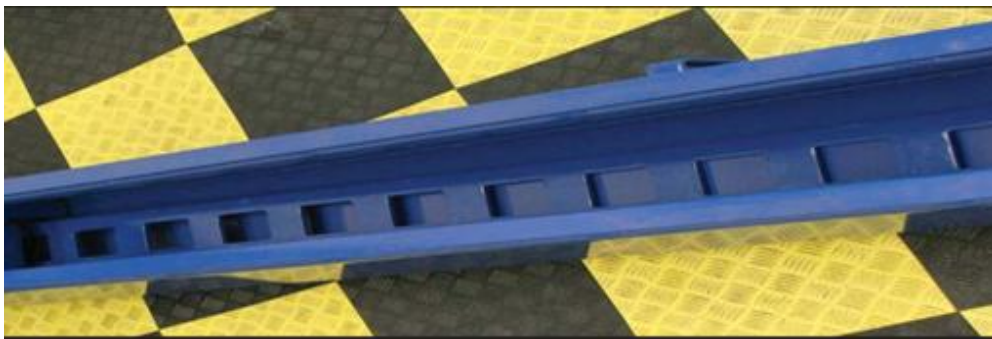
STEP 4: {First Cross Beam}

1. Remove the pins on both ends of the first cross beam. The pins will be reinserted after the cables are routed. The pins hold the cables up in the pulleys, so they do not slip off during operation.

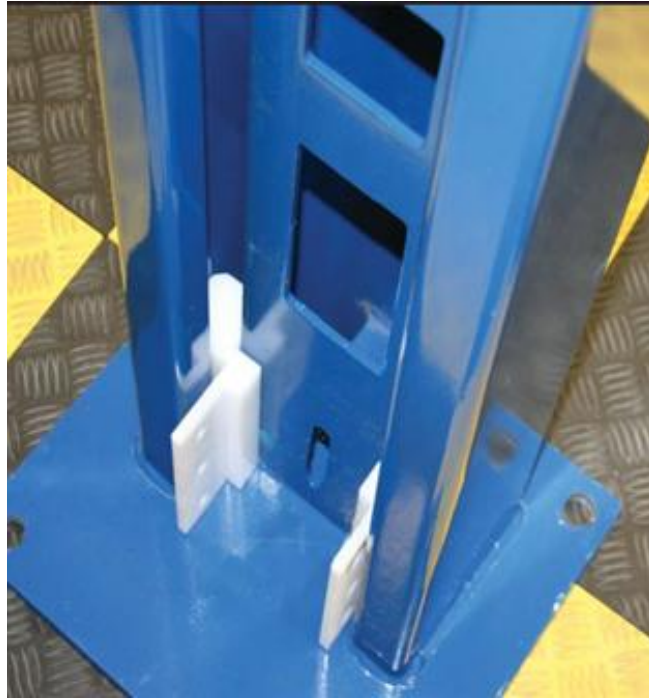


Remove C-Clip

2. Lay two columns on the ground facing upward.



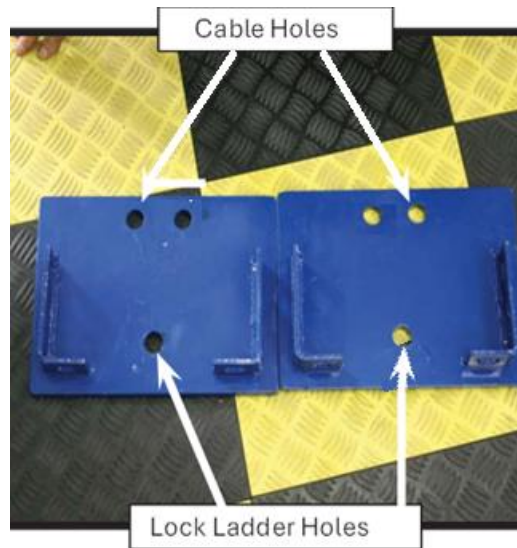
3. Insert a **lock ladder** into each column. Set the columns upright into their final positions.
4. Maneuver the white wear blocks into the columns so the slotted ends mesh with the lock ladder. There are 2 wear blocks per side.



5. Using the bolts supplied, attach the lock ladders. ***Do not tighten the bolt at this time.***



6. Bolt on the column top caps.



7. Insert the top of the lock ladder through the top cap. Bolt down the top cap until ½ inch of thread is exposed at the top.



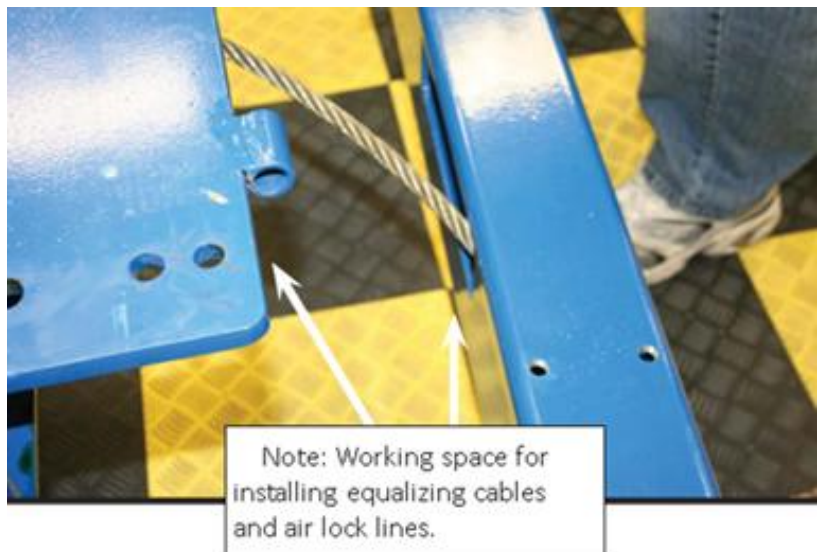
8. Maneuver the first crossbeam into both columns. Screw the wear blocks to the ends of the cross beam: use pan head screws supplied.



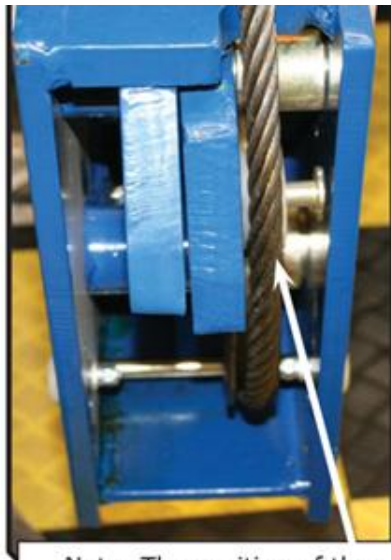
9. Repeat steps above for second cross beam and remaining two columns.

STEP 6: {Runway Installation}

1. The runways should be positioned in their relative final locations and elevated above the front and rear cross beams. If not, do this now.
2. Leave working space between runways and cross beams so the cables can be routed into their final positions

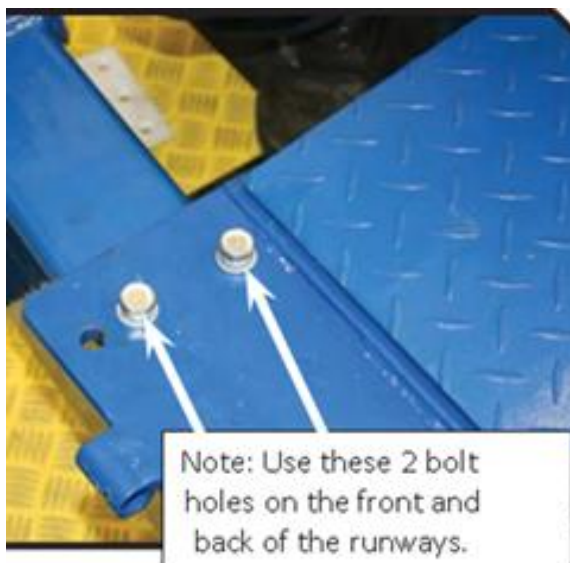


3. Route each equalizing cable into their positions.
4. When routing the equalization cables through the cross-beam pulleys, pay close attention to the position of the cables and the small white safety lock pulley, cables should be in front of (on lock ladder side) the white pulley.



Note: The position of the equalizing cable is in front of the **small white** safety lock pulley.

5. Install the runways onto the cross-beams. Do not tighten bolts at this point, only hand-tighten. This will allow movement for plumbing and squaring the lift. (**NOTE: front wheel stops should be installed at this time, use runway bolts to attach wheel stops to runway and cross-beam**)



Note: Use these 2 bolt holes on the front and back of the runways.



Note: Install front runway wheel stops before bolting down the runway.

6. Connect plastic airline for locks. Airline is pre-installed in cylinder runway, pull airline out of holding bracket and locate one end, insert end through crossbeam and insert into open port of “T” Fitting on outside of cross-beam. Repeat process on opposite end.

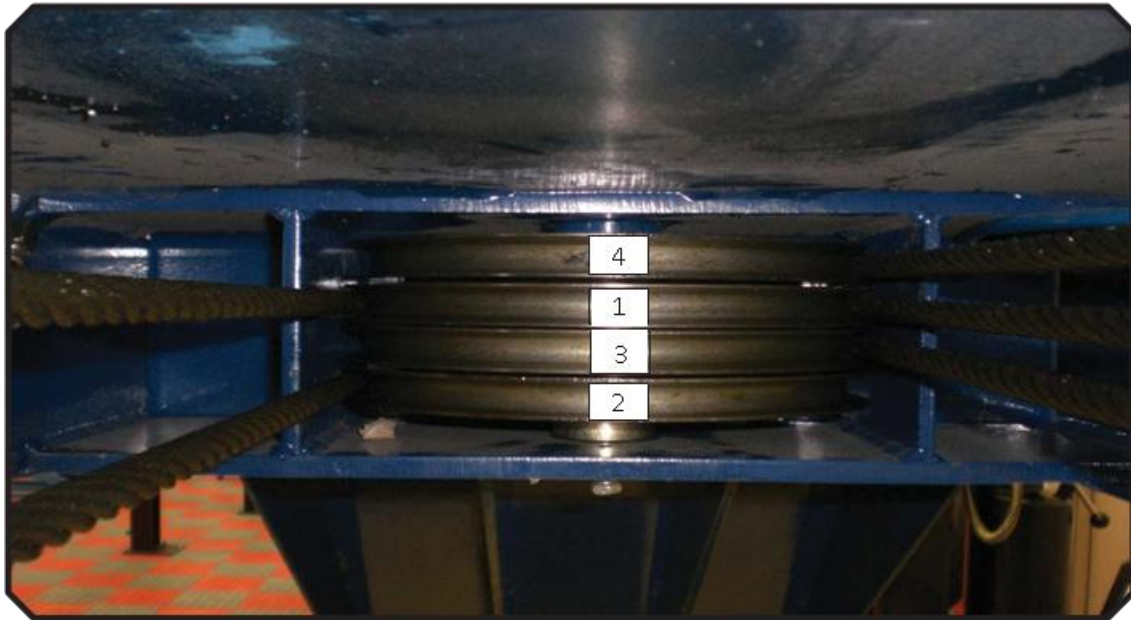
STEP 7: {Anchoring the Lift}

1. Square all columns. This can be achieved by checking the angles from the front driver’s side column base to the rear passenger side column base. Check the square from the front passenger side column base to the rear driver’s column base. A dead blow hammer or other tool may be needed to adjust each column to true the squaring of the lift.
2. Use a hammer drill and a ¾” masonry drill bit and drill the anchor holes through the holes on the base of the columns. Tap the anchors into place with sledge hammer.
3. Using a level, plum each column. If needed, use shims provided in the parts box.
4. Tighten anchor bolts to 85-100 foot pounds.
5. Tighten the runway bolts to the cross beams.

STEP 8: {Cable Routing}

1. The cables are routed when the lift is packaged. During the installation process, the cables may fall out of their primary positions on the cable sheave (4 pulley stack).
2. Cable Identification (If Power unit positioned at Driver’s Front): Cable 1- Passenger Front; Cable 2 - Driver’s Rear; Cable 3 - Passenger Rear; Cable 4 - Driver’s Front
3. Follow picture diagrams below for cable positions.

CABLE SHEAVE ROUTING



CYLINDER CABLE SUPPORT



STEP 9: {Power Unit & Hydraulic Connections}

- 1.** With the nuts, bolt and washers supplied, mount the 220 volt power unit to the column with the mounting bracket.
- 2.** Thread the hydraulic (short) fitting into the power unit's valve body block and connect the hydraulic hose (**NOTE: copper washer goes on side closest to valve block, also it is recommended to use thread tape on this fitting**).
- 3.** Find the end of the cylinder hose and insert through side of runway, use a nut on each side of runway to hold fitting in place. Connect the power unit hydraulic hose to between power unit and runway (90 degree end connects to power unit).
- 4.** Fill reservoir with hydraulic fluid, will require 3-5 gallons (It is recommended to use AW32 or AW46 grade hydraulic oil)



- 5.** Finally, connect hydraulic return line. Find plastic line under main runway connected to end of hydraulic cylinder. Run airline through runway side and connect to push lock fitting on power unit reservoir.

STEP 10: {Pneumatic (Air) Component Installation}

1. With the hardware provided, install the Filter – Regulator - Lubricator. Install protection bracket over FRL. **NOTE: An air inlet fitting is provided but may not work with all incoming airlines, use what works with your external air system.**



2. Using shorter plastic airline provided in parts box, connect line from air outlet of FRL (push lock fitting) and run airline through channel and behind mounting bracket. Connect airline to middle fitting on top of Air Lock Control Valve. Using longer plastic airline provided, connect to offset fitting on Air Lock Control Valve, run behind mounting bracket and through channel to runway. Run airline through runway and connect to "T" Fitting for locks.

- 3.** Install Air Lock Control Valve. Remove control lever and large nut and insert from behind mounting bracket. Re-install nut and lever.



STEP 11: {Runway Leveling}

- 1.** Engage all 4 corners of the lift on the same lock level.
- 2.** Check the level of the driver's side runway by placing a level lengthwise on the runway.
- 3.** Adjust the runway by loosening or tightening the lock ladders accordingly.
- 4.** Repeat procedures 2 & 3 for the passenger side runway.
- 5.** Lay the level across opposing runways and adjust until level. This procedure will be performed on the front and rear of the lift.
- 6.** Double check all leveling points.
- 7.** Tighten bolts on the bottom of the lock ladders
- 8.** Connect runway approach ramps.

STEP 12: {Electrical Connection}

1. Have a certified electrician install a dedicated **30amp** breaker.
2. **Follow the diagram below for 220 volt motor wiring.** Make certain that the wires are installed in the proper legs of the **AC contactor** for normal operation.

Remove Existing Pigtail From Lift (Do Not Operate Until Completed)

1.) Incoming Power (Factory Installed)

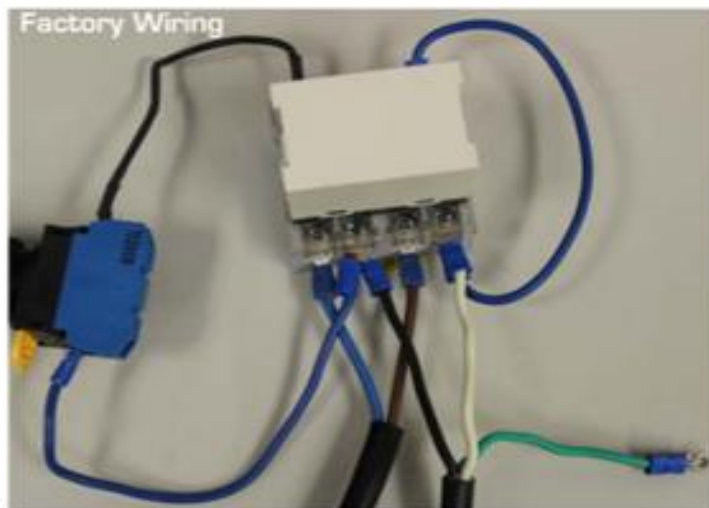
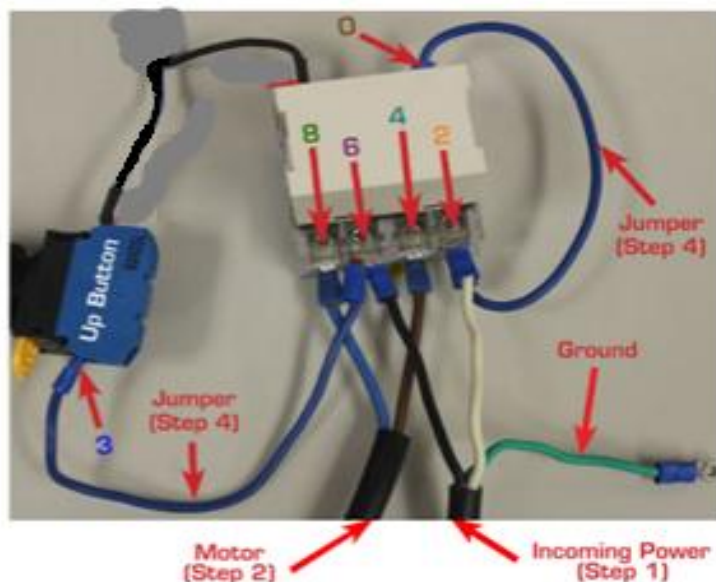
- a.) One hot to **terminal 6**
- b.) One hot to **terminal 2**
- c.) Ground to ground

2.) Motor (Factory Installed)

- a.) One hot to **terminal 8**
- b.) One hot to **terminal 4**

3.) Jumpers (Factory Installed)

- a.) Jumper from **Up Button terminal 3** to **terminal 6**
- b.) Jumper from **terminal 2** to **terminal 0**



STEP 13: {Grease Fittings}

1. Insert grease fittings. Find grease fittings provided in parts box and install them into pulley pins in crossbeams and under cylinder runway.

STEP 14: {Pre-Operation Check List-Less Load}

1. Insert 3 to 4 drops of air tool oil in the air supply inlet. Repeat this at least every 2 weeks. Connect air supply, set pressure to no more than 120psi (8bar). Inspect for leaks.
2. Pressurize the hydraulics by pressing the up button on the power unit. Inspect the hydraulic system for leaks.
3. Raise and lower lift at least 3 times while inspecting cable routing/function and pulley rotation. **Do not over heat or toggle the motor**
4. Listen for locks to click at the same time while raising the lift.
5. If locks do not click at the same time (synchronize), repeat the procedures in **STEP 11:** {Runway Leveling}.

Operation Instructions

To lift vehicle

1. Keep the work area clean and free of clutter
2. Drive vehicle on the Platforms and put on the parking brake
3. Turn on the power supply to lift and press the **UP** button, raise the lift to the desired working position

Note: make sure the vehicle is steady when the lift is raised.

4. Push the handle on the release valve to rest the lift on the safety locks. Make sure the safety devices are locked at the same height.

To lower vehicle

1. Be sure there are no people or objects under the lift, only leaving operator in the lift area
2. Press the button **UP button until the lift has cleared the locks**, press and hold the manual-controlled air valve to release the safety locks. Push the handle on the lowering valve with the other hand. The lift will lower automatically.
3. Drive away the vehicle when the lift is lowered to the lowest position

Maintenance Schedule

Daily Inspection & Maintenance

1. **Cleanliness:** Cables, Columns, Runways and other lift parts should be kept free of corrosive agents, solvents and road salts. If such agents are spilled or splashed on any lift component, immediately rinse thoroughly with water and wipe down with a clean rag. Spray wire rope cables as required with Penetrating Oil and wipe down.
Failure to keep lift free of corrosive agents and solvents will lead to reduced component service life, cable failure, etc., which could result in property damage and/or personal injury.
2. **Fasteners:** Check all the attaching bolts and nuts for tightness.
3. **Cables:** Check wire rope cables for wear or damage. Any cable with broken wires, severe corrosion, excessive stretch, deformed strands, variations in diameter (necking), or any change from its normal appearance, must be replaced. If any cable is found to be in need of replacement, the entire cable set must be replaced immediately. Refer to figures below.
4. **Sheaves:** Check sheaves (pulleys) for wear or damage, i.e. wobble (tilt), cracks, loose on pin, or excessive noise during operation.

5. Sheave Pins: Check for loose or missing sheave (pulley) pins.

6. Locking Latches and Slack Cable Devices: Watch locking latches and slack cable devices during lift operation to ensure that latches work properly and line up with slots in latch plate located in columns.

Monthly Inspection & Maintenance

1. Cables: Clean wire rope cables with lift in both lowered and raised position by spraying with Penetrating Oil and wiping the cable down.

2. Slack Cable: Inspect slack cables and pulley devices.

3. Column Anchor Bolts: Check column anchor bolts for tightness. Re-torque anchors bolts to 100 ft/lbs. If anchors do not tighten to the required installation torque, replace concrete under each column base per installation instructions. Let concrete cure before installing lifts and anchors.

4. Columns: Look for corrosion, giving special attention to the area at the base of the column. Check severely corroded areas by pecking with an awl or welder's

Quarterly Inspection & Maintenance

1. Cables: Inspect cables in both lowered and raised position. The cables may also be viewed through various inspection holes and openings in yokes and runways. Check all the following:

- a. That cables have no broken wires visible, reference Daily Inspection & Maintenance.
- b. That cables are free of severe corrosion and pitting, reference Daily Inspection & Maintenance. A light surface corrosion on exposed outer wires is normal. Penetrating Oil should be applied during monthly periodic inspection.
- c. That there are no areas on the cable that have a greatly reduced diameter or "necking", reference Daily Inspection & Maintenance. When any cable is found with excessive necking, all cables must be replaced immediately.

- d. That cables do not have excessive stretch. It is normal for new cable to require adjustment during “break in”, after which small periodic adjustments may be required. However, if a cable that has been in service for 6 months should suddenly require frequent adjustments or has used all the cable adjustment available, **all cables must be replaced immediately.**
- e. If any cable is found to be in need of replacement, **the entire cable set must be replaced immediately.**
- f. Cables are expendable items and should be replaced as a set every 20,000 cycles (estimated) or every 6 years, unless earlier replacement is indicated during inspection.

2. Sheaves and Pins: Inspect sheaves and pins in yokes and runways. Sheaves are expendable items. Sheaves and pins should be replaced when worn. Use of sheaves and pins with excessive wear will lead to reduced service life of cables.

2.1. Inspect sheaves (pulleys) in yoke ends with lift in lowered position or resting on the locking latches.

- a. Hold lowering handle down and pull on cable in column to create slack in cables.
- b. Check for excessive side to side wobble. Grasp rim of sheave and attempt to wobble (tilt) side to side. If sheaves wobble (tilt) more than 3/16” (4.8 mm) side to side or move up and down on shaft more than 1/32” (0.8mm), the sheave and pin (shaft) should be replaced.
- c. Check sheaves and replace if cracks are found.
- d. Check for ease of rotation. If sheaves do not turn freely, the sheave and sheave pin should be removed, inspected, lubricated, and reinstalled or replaced.

2.2 Fully raise lift. Inspect sheaves (pulleys) in runway ends with lift in raised position.

- a. Visually inspect alignment of sheaves. Misalignment of sheave(s) indicates excessive wear; the sheave(s) and sheave pin should be removed and inspected. Replace as required.
- b. Hold lowering handle down to lower lift onto latches. Pull on cables under runway to create cable slack.

- c. Check for excessive side to side wobble. Grasp rim of sheave and attempt to wobble (tilt) side to side, refer to figures above. If sheaves wobble (tilt) more than 1/16" (1.6 mm) side to side or move in and out more than 1/32" (0.8 mm), the sheave and sheave pin (shaft) should be replaced.

3. Hydraulic Cylinder: Inspect the hydraulic cylinder mounting to the runway. Inspect cylinder and hydraulic hoses for leaks. Repair or replace as required.

3.1. Check and tighten the hydraulic cylinder rod nuts holding the cable pullbar.

4. TRACKS for Rolling Jack: Inspect rolling jack tracks for cleanliness, corrosion, excessive wear or damage. Clean dirty tracks. Worn or damaged tracks must be repaired immediately. Failure to do so will lead to reduced service life which could result in property damage and/or personal injury.

5. Latch Inspection and Adjustment: Check locking latches for proper operation. Inspect for worn or missing parts. Replace worn or damaged parts and adjust as required.

6. Check latch operation on all four corners.

7. Latch and Latch Bar Line-Up: Observe locking latches during lift operation to ensure that all latches line up with slots in latch bar located in all four columns. If not, relocate and/or re-shim columns.

8. Check slack cable devices for proper operation

9. Inspect for worn or missing parts: Replace worn or damaged parts as required.

10. Observe both locking latches and slack cable devices during lift operation to ensure that all latches line up with slots in latch bar located in all four columns.

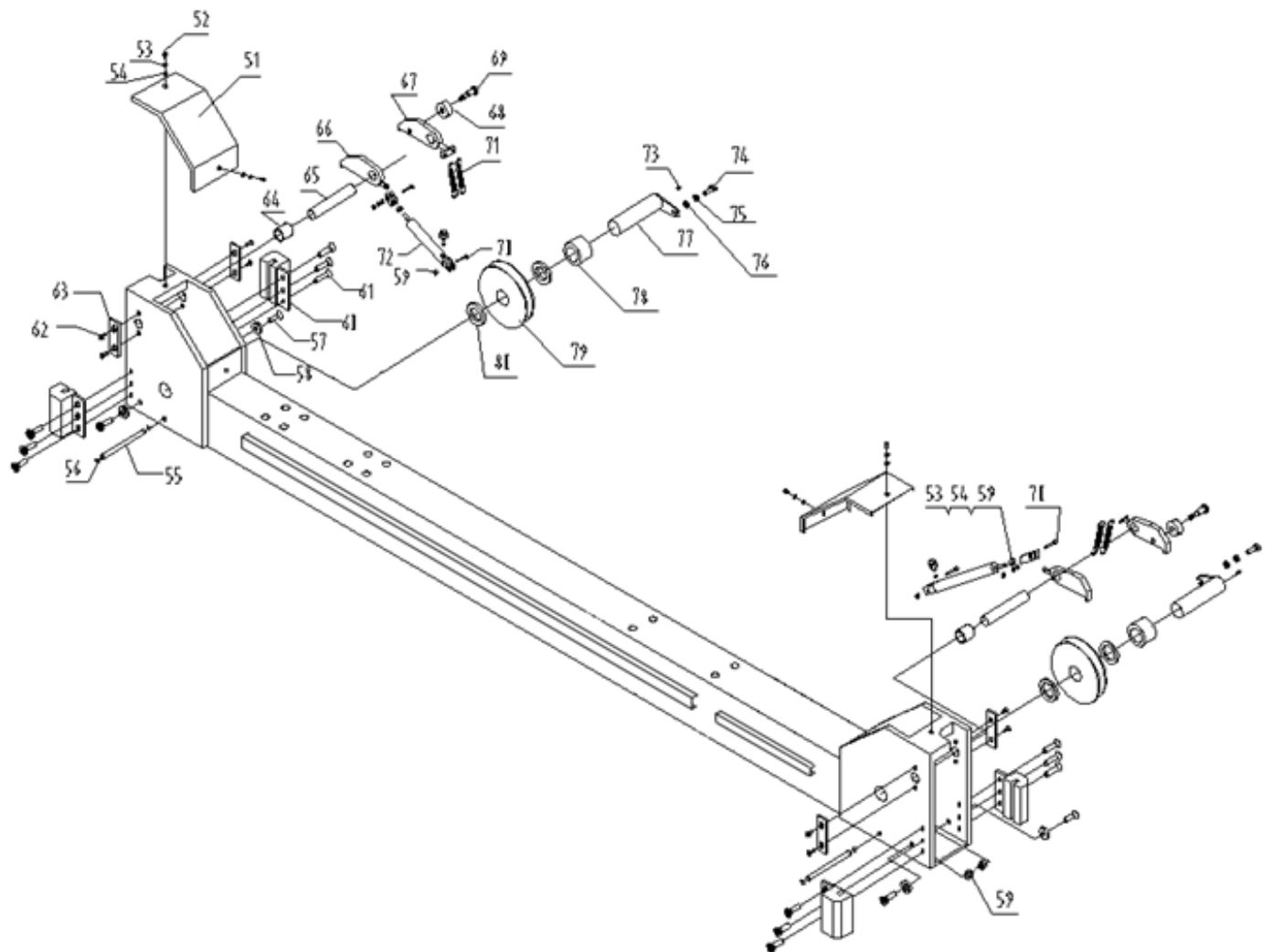
PRO12K Parts List

Code	Description	Qty
1.	Main runway	1
2.	Slave runway	1
3.	Main column	1
4.	Slave column	3
5.	Rear crossbeam welding component	1
6.	Hexagon headed bolt M12*30	20
7.	Flat gasket 12	36
8.	Spring washer 12	20
9.	Nut M12	16
10.	Welding components of column top plate	4
11.	Nut M18	8
12.	Flat gasket 18	8
13.	Ladder strip	4
14.	Front guardrail	2
15.	Hexagon headed bolt M12*35	16
16.	Spring washer 12	16
17.	flat washer 12	16
18.	Positioning plate welding components (options)	2
19.	moving plate 3 (options)	4
20.	moving plate 2 (options)	2
21.	moving plate 1 (options)	2
22.	Middle Planking board 1720 (options)	2
23.	Welding components of side skateboard pulley frame (options)	2
24.	Universal ball (options)	88
25.	Self-locking nut 12	4
26.	spacerinner12 outer40	4
27.	tension spring (options)	8
28.	Side skateboard welding components (options)	2
29.	Key ring components (options)	8
30.	Chain (options)	4
31.	Small uphill board welding component (options)	2
32.	Hexagon socket-head cap screws M12*35	4
33.	flat washer 12	32
34.	Spring washer 12	28
35.	Nut 12	28
36.	Ramp welding components	2
37.	Drive board pulley	4
38.	Drive board pulley pin	2
39.	16 axis card	4
41.	Slope axis	2
42.	R plug	4
43.	power unit	1

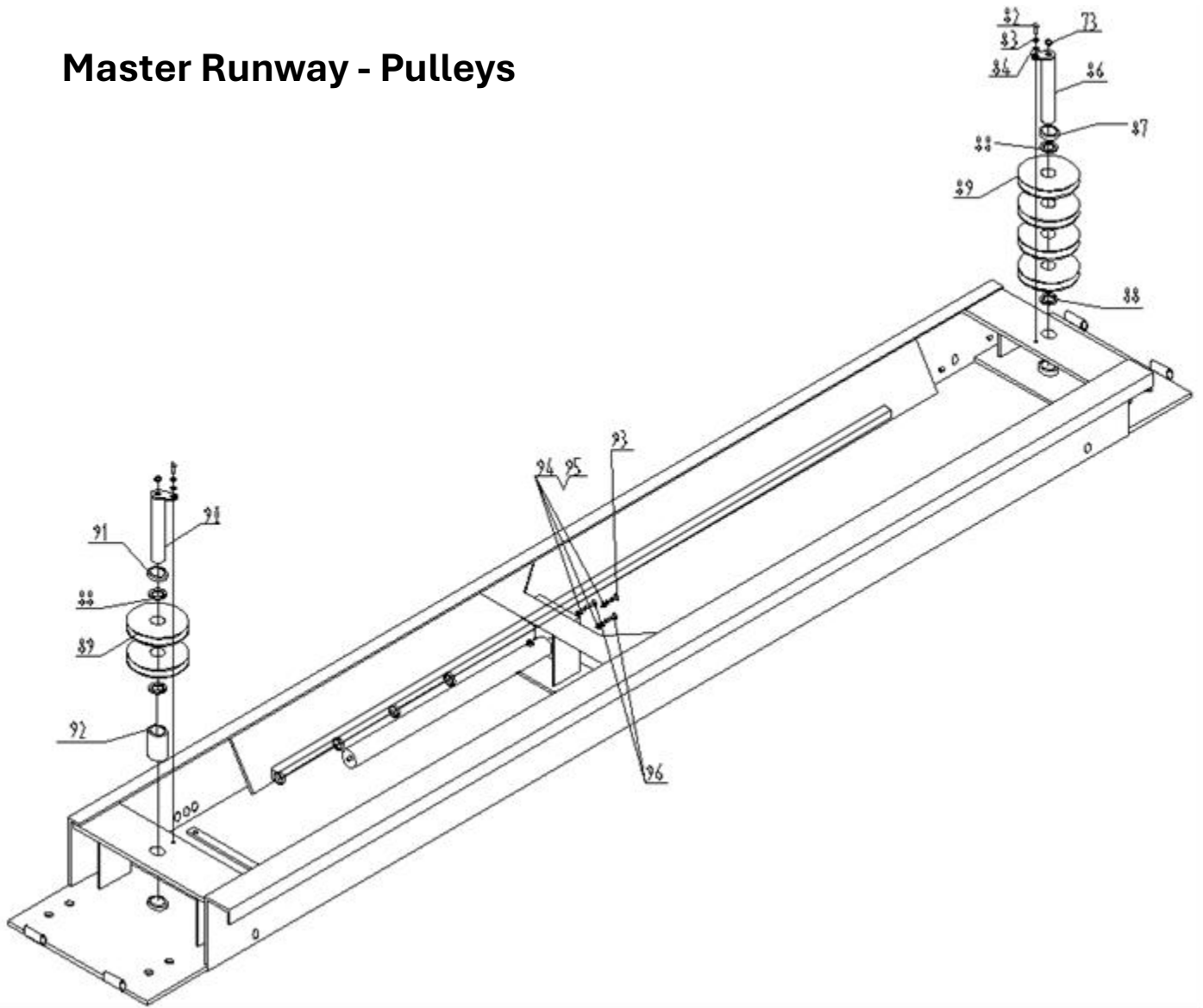
44.	Brake block	2
45.	Side skateboard pin	4
46.	Oil water separator protective bracket	1
47.	Expansion bolt M19*140	16
51.	Beam head cover plate	4
52.	Round head screw M6*15	32
53.	Spring washer 6	36
54.	Flat gasket 6	36
55.	Wire wheel limit pin	4
56.	12 snap ring	8
57.	bolt M6*25	8
58.	Nylon gasket	8
59.	Self-locking nut M6	16
60.	Slider	8
61.	Bolt M8*20	24
62.	Bolt M6*15	16
63.	Safety shaft baffle	8
64.	Cross beam safety shaft retaining ring	4
65.	Crossbeam safety shaft	4
66.	Pneumatic safety hook	Two symmetrical ones on each side
67.	Anti breakage safety hook	Two symmetrical ones on each side
68.	Insurance limit wheel	4
69.	Beam safety limit shaft	4
70.	Hexagon headed bolt M6*25	8
71.	Black tension spring	8
72.	Cylinder assembly	4
73.	spray nozzle	6
74.	Hexagon headed bolt M8*15	4
75.	Spring washer 8	4
76.	flat washer 8	4
77.	Welding components of crossbeam rope wheel axle	4
78.	Beam pulley retaining ring	4
79.	Cross beam pulley	4
80.	Flat cushion 40	8
81.	Welding components of front crossbeam	1
82.	Hexagon headed bolt M8*15	2
83.	Spring washer 8	2
84.	flat washer 8	2
85.	Nut 20	8
86.	Platform steel wire axle 1	1
87.	Platform steel wire axle sleeve 1	1
88.	Shim 42	4
89.	Wire wheel 248	6

90.	Platform steel wire axle 2	1
91.	Platform steel wire axle sleeve 2	1
92.	Platform steel wire axle sleeve 3	1
93.	Hexagon socket head cap screw M10*20	1
94.	flat washer 10	3
95.	Spring washer 10	3
96.	Hexagon socket head cap screw M10*40	2
97.	flat washer 20	8
98.	Steel cable L=10703mm/421.3"	1
99.	Hexagon headed bolt M8*25	4
100.	flat washer 8	8
101.	Hexagon headed bolt M12*40	2
102.	Spring washer 8	4
103.	Nut 8	4
104.	Copper Gasket	1
105.	Double headed threaded joint	1
106.	Oil hose L=2340mm/92"	1
107.	American 9/16 nuts	1
108.	flat washer 14	1
109.	Small bend joint	1
110.	Oil hose L=2020mm/79.5"	1
111.	Explosion proof valve assembly	1
112.	Large bend joint	1
113.	Cylinder	1
114.	8 mm air hose joint (with 3000 mm return air hose)	1
115.	Wire rope pull plate	1
116.	Oil cylinder pull plate slider	2
117.	Bolt M6*12	2
118.	Wire rope locking plate	1
119.	Self-locking nut 30	1
120.	Oil cylinder limit seat	1
121.	flat washer12	2
122.	Spring washer12	2
123.	Nut 12	2
124.	Large oil-water separator	1
125.	Round head screw M6*15	4
126.	Spring washer6	4
127.	flat washer 6	4
128.	Air tube L=800mm/31.5"	1
129.	Pneumatic lock release valve	1
130.	Air tube L=2600mm/102.3"	1
131.	Air tube tee joint	3
132.	Air tube 1	2
133.	Air tube 2	1

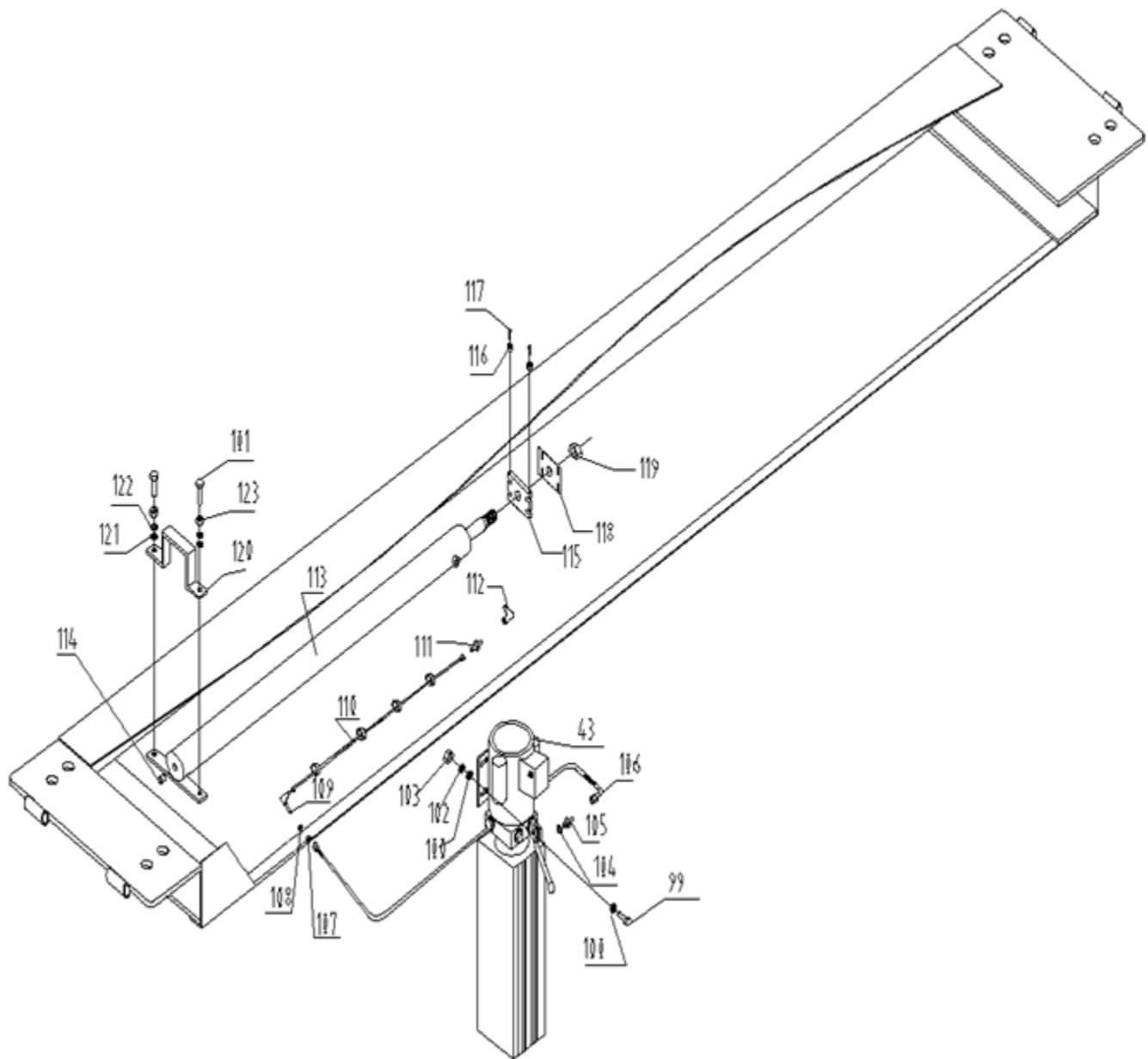
Crossbeam



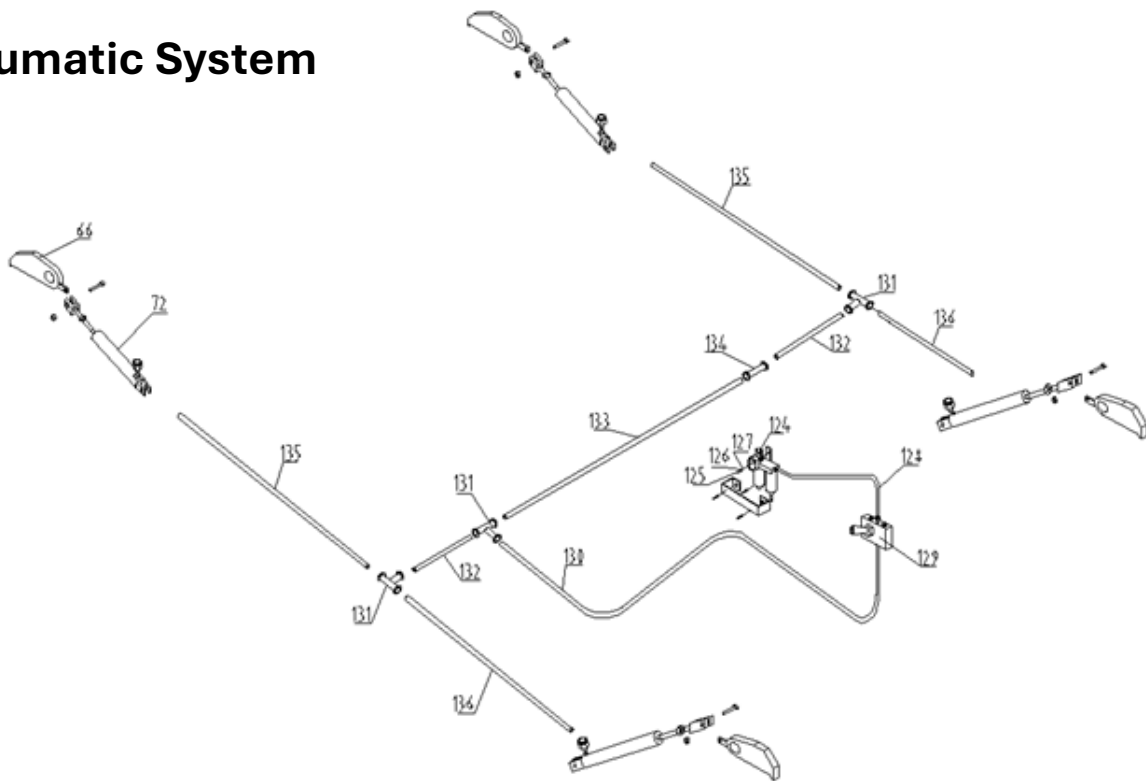
Master Runway - Pulleys



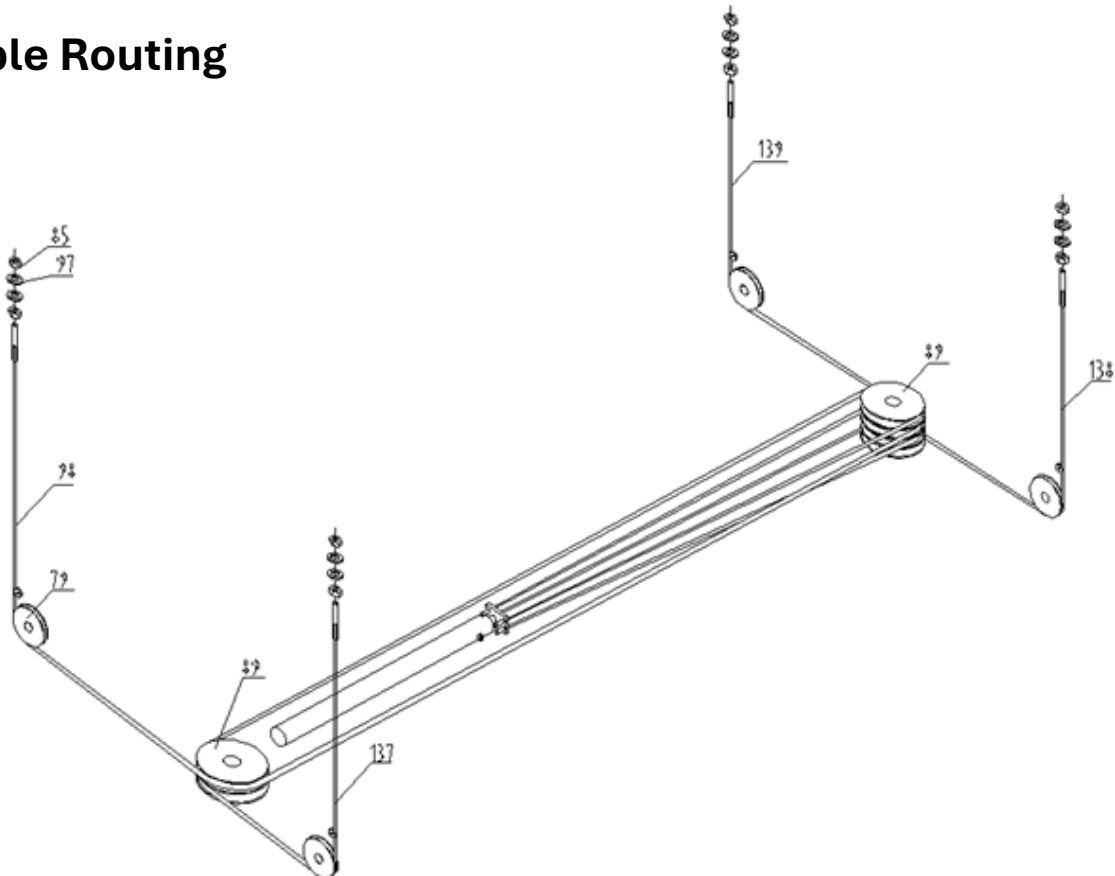
Master Runway - Hydraulics



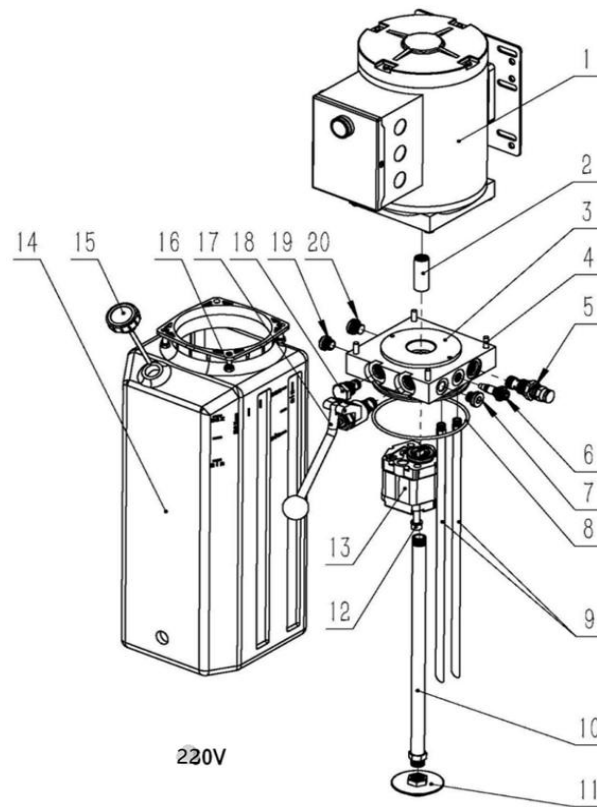
Pneumatic System



Cable Routing



Power Unit



Code	Description	Qty
1	Electric motor (220V, 2.5KW, 3360rpm)	1
2	Joint shaft 700.001.002.03	1
3	Valve body 30101920001 (H002)	1
4	Screw bolt M6x35	4
5	Relief valve RV-02B	1
6	Throttle valve FCV-02 (15L)	1
7	Screw block (9/16")	1
8	O ring 112x3.55	1
9	Oil return pipe 800.003.002.02	2
10	Oil suction pipe 800.001.002.06	1
11	Filter screen FS-03B	1
12	Screw bolt for pump M8x80-N	2
13	Gear pump CBKL-G2270 (2.7mL/r)	1
14	Oil tank (14L-TS1093-53A-V)	1
15	Oil tank cup 900.005.002.06	1
16	Screw bolt M6x14	4
17	Manual valve MV-01	1
18	Check valve CV-01	1
19	Screw block (9/16")	1
20	Screw block (3/8")	1

PRO12K Packing List

1. Standard Accessory Box

SN	ITEM	Description	Qty	Remark
1	Standard parts	3/4" expansion bolt	16	
		Hex bolt M8 X 25	4	Power unit
		8 Spring washer	4	
		8 Flat washer	4	
		M8 nut	4	
		Bind tape	10	
		9/16" joint	1	Power unit hose joint
		Ø14 brass washer	1	Joint seal
		M8 X 20 screw	24	Nylon slider
		8-3000 air hose	1	Main security device
		8-1500 air hose	1	From oil-mist separator to pneumatic lock release valve
		Oil-water separator AFR-2000-0.8pa	1	
		Oil-water separator protection frame	1	
		American-style quick-connect air tube connector	1	
		TSV86522s pneumatic lock release valve	1	
		Hydraulic hose	1	L=2100 mm
		M6 X 16 screw	4	Oil-mist separator
		6 flat washer	4	
		6 spring washer	4	
		Brake block	2	Rubber block
		Grease nozzle	6	M10*1 mm
		M12*35 screw bolt	16	Crossbeam
		12 flat washer	20	
		12 screw nut	20	
		Plastic U-shaped gasket	20	
		M12*30 screw bolt	4	Lock ladder

2. Main package

SN	ITEM	Qty	Remark
1	Main column	1 3	Main column Slave column
2	Crossbeam	2	
3	Main runway	1	1 pcs oil cylinder, 1 pcs oil hose, 1 set steel cables, 1 set air hoses
4	Slave runway	1	
5	Ramp	2	2 pcs, with pin
6	Power unit	1	220V/60HZ/1PHASE/2.5KW/14L
7	Standard parts box	1	
8	Top cover box	1	4 pcs
9	Front guardrail box	1	2 pcs
10	Nylon slider	1	8 pcs

3. Wear Items

Code	Model	Item
79	40-178	Crossbeam pulley
89	40-248	Runway pulley
61		Sliding block
68		Limit pulley
72	LMSAL16*45	Pneumatic cylinder
98	L=10703-13	Steel cable assy
137	L=9126-13	Steel cable assy
139	L=5543-13	Steel cable assy
138	L=3966-13	Steel cable assy
129	TSV86522	Pneumatic lock release valve
124	AFR-2000	Oil-mist separator

Warranty



This item is warranted for five (5) years on structural components, two (2) years on hydraulic cylinders, and one (1) year on electric or air / hydraulic power units from invoice date. Wear items are covered by a 90 day warranty.

This LIMITED warranty policy does not include a labor warranty.

NOTE: ALL WARRANTY CLAIMS MUST BE PRE-APPROVED BY THE MANUFACTURER TO BE VALID.

The Manufacturer shall repair or replace at their option for this period those parts returned to the factory freight prepaid, which prove after inspection to be defective. This warranty will not apply unless the product is installed, used and maintained in accordance with the Manufacturers installation, operation and maintenance instructions.

This warranty applies to the ORIGINAL purchaser only, and is non-transferable. The warranty covers the products to be free of defects in material and workmanship but, does not cover normal maintenance or adjustments, damage or malfunction caused by: improper handling, installation, abuse, misuse, negligence, carelessness of operation or normal wear and tear. In addition, this warranty does not cover equipment when repairs or alterations have been made or attempted to the Manufacturer's products.

THIS WARRANTY IS EXCLUSIVE AND IS LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS FROM A PARTICULAR PURPOSE, AND ALL SUCH IMPLIED WARRANTIES ARE EXPRESSLY EXCLUDED.

THE REMEDIES DESCRIBED ARE EXCLUSIVE AND IN NO EVENT SHALL THE MANUFACTURER, NOR ANY SALES AGENT OR OTHER COMPANY AFFILIATED WITH IT OR THEM, BE LIABLE FOR SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR THE BREACH OF OR DELAY IN PERFORMANCE OF THIS WARRANTY. THIS INCLUDES, BUT IS NOT LIMITED TO, LOSS OF PROFIT, RENTAL OR SUBSTITUTE EQUIPMENT OR OTHER COMMERCIAL LOSS.

PRICES: Prices and specifications are subject to change without notice. All orders will be invoiced at prices prevailing at time of shipment. Prices do not include any local, state or federal taxes.

RETURNS: Products may not be returned without prior written approval from the Manufacturer.

DUE TO THE COMPETITIVENESS OF THE SELLING PRICE OF THESE LIFTS, THIS WARRANTY POLICY WILL BE STRICTLY ADMINISTERED AND ADHERED TO.