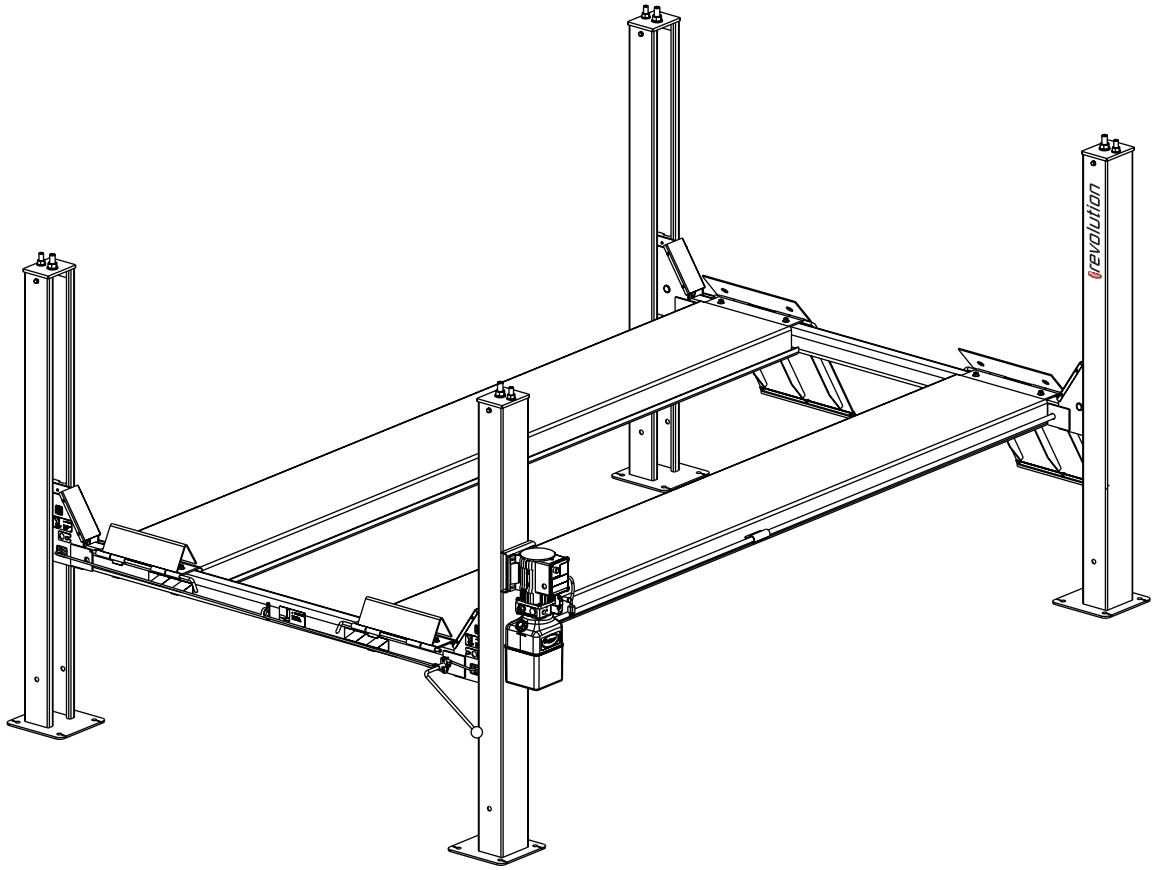
revolution™

by Rotary Lift® - World Leader in Professional Lifts

Installation Instructions



LP20160

IN20235
Rev. E 9/20/2005

Welcome to the Revolution!
You now own the highest quality lift on the market today. Your new lift was designed and built by Rotary Lift, the world leader in professional lift systems. Rotary's experience to meet the demands of the vehicle service and repair industry is evident in the quality and safety features of the lift you've purchased. Heavy-gauge steel construction. Robust safety locks, durable paint finish; we know what makes a long-lasting product, and its built into every one of our products.

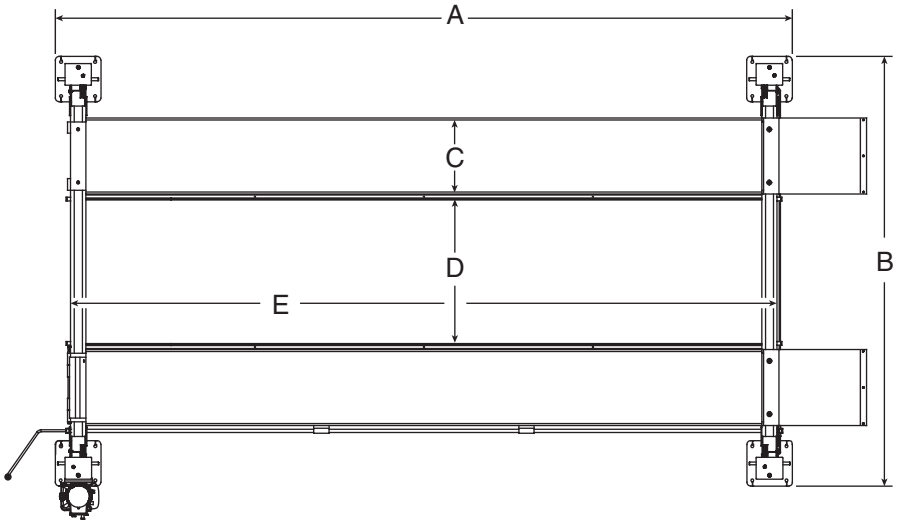
Meeting standards is very important to us.
Every lift we produce meets or exceeds industry standards as set by the American National Standards Institute (ANSI-ALCTV-1998). Not only do they meet the standards, most of our lifts are third party certified to rigorous testing criteria by Electrical Testing Laboratories (ETL). You can be assured that your Revolution lift has been manufactured and tested with reliability and safety in mind.

We want the use of your lift to be smooth and trouble-free. Your new lift is a sophisticated piece of equipment. When properly assembled and installed, it will provide many, many years of dependable service. This manual provides you with easy to follow installation instructions and a breakdown of the parts included with your lift. Also included are important safety, operation, and maintenance information that will assist you in the day-to-day operation of your lift. Remember, you own a tool that is going to revolutionize your garage!

Have questions? We're ready with answers.
If you run into any uncertainty or questions as you read this manual, or during the operation of your lift we want to clarify it for you. Also, contact us if you would like the name of a Rotary Authorized Installer in your area. Give us a call or send an email as indicated below:

Phone – 800.604.3359
Email – sales@revolutionlifts.com

Dimensions Of Your Lift

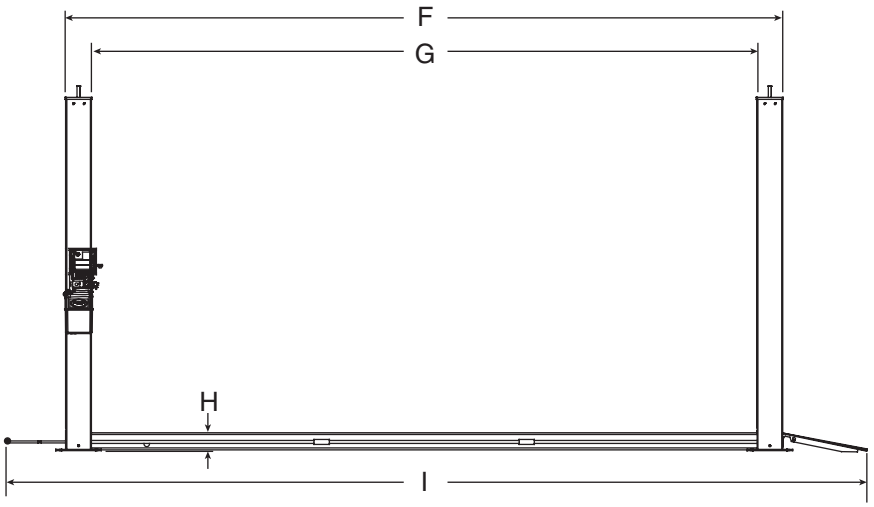


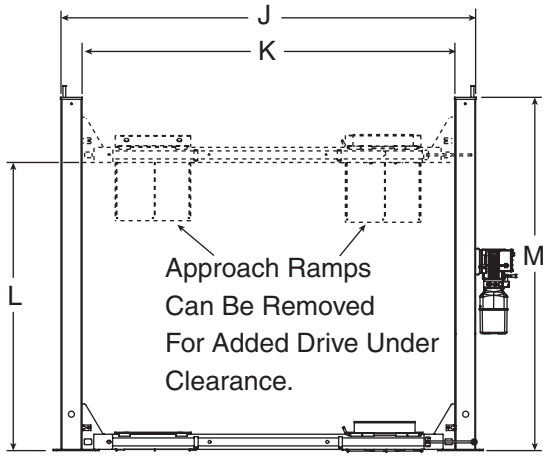
Issues To Consider When Planning A Location For Your Lift.

Have you allowed enough workspace around the lift?

Where Is Your Closest Power Source?

Are You Installing It In A Level Location? (Lift must be anchored in place if slope is greater than 1/8 inch per 1 foot.)





	LIFT SPECIFICATIONS TABLE	RPF7 SERIES	RPF7XLT SERIES
A.	Base plate to base plate - length	168"	194"
B.	Base plate to base plate - width	107"	113"
C.	Width of runways	20"	20"
D.	Width between runways	35"	41"
E.	Outside of yoke to outside of yoke	160"	186"
F.	Outside of column to outside of column - length	163"	189"
G.	Inside of column to inside of column - length	149"	175"
H.	Height of runway	4-3/4 "	4-3/4"
I.	Overall length*	190"	216"
J.	Outside of column to outside of column - width	103"	109"
K.	Inside of column to inside of column - width	93"	99"
L.	At full rise	63"	76"
M.	Column Height	80"	93"
	Lift Capacity	7000lbs.	7000lbs.
	Rise Time	85 sec./115v	105 sec./115v
		32 sec./220v	40 sec./220v

DO NOT install or use your lift on any asphalt surface or any surface other than concrete.

DO NOT install your lift on a second or elevated floor without consulting a structural engineer or architect.

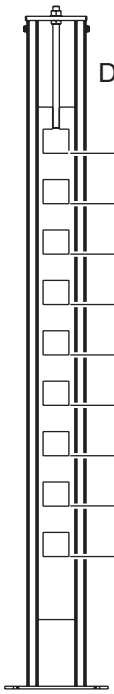
DO NOT install outdoors unless special consideration has been made to protect the power unit from inclement weather conditions.

Fig. 1

*NOTE: Approach ramps are removable. Overall length measurement includes ramps and adds 20" to overall length. Extended length approach ramps are available for cars with low ground clearance. Extended length ramps are 15" longer.

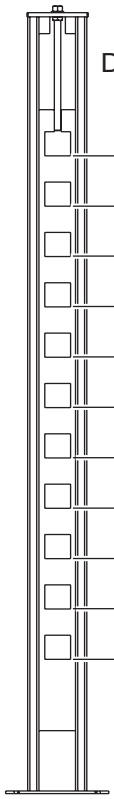
Lift Height Chart

Dimensions Taken From Lift Sitting On Level Surface
Dimensions Will Vary From Installation To Installation
Depending On Levelness Of Floor



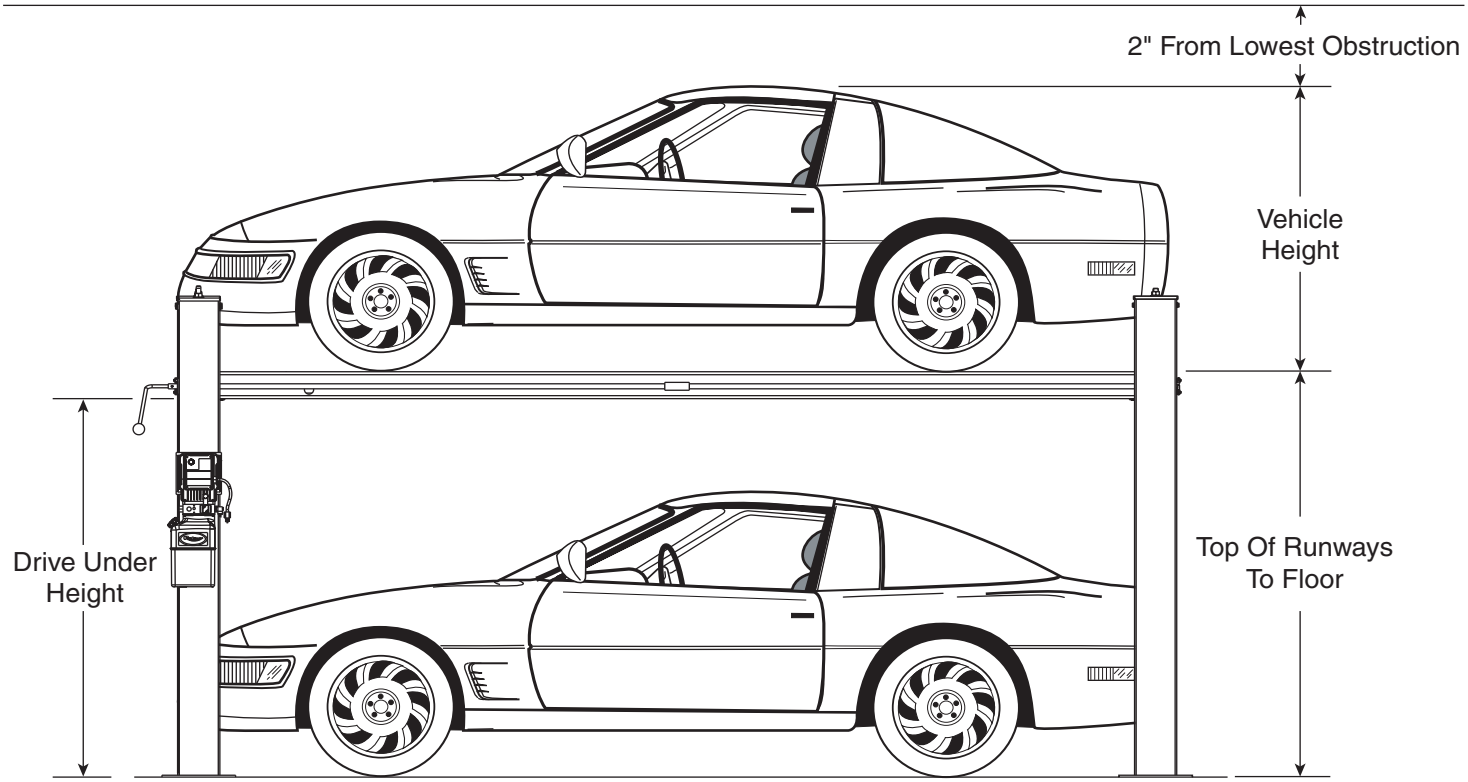
Standard Model

Drive Under Height	Top Of Runways To Floor
63"	67-1/2"
57"	61-1/2"
51"	55-1/2"
45"	49-1/2"
39"	43-1/2"
33"	37-1/2"
27"	31-1/2"
21"	25-1/2"
15"	19-1/2"
0"	4-1/2"



XLT Model

Drive Under Height	Top Of Runways To Floor
76"	80-1/2"
71"	75-1/2"
64"	68/1/2"
58"	62-1/2"
52"	56-1/2"
46"	50-1/2"
40"	44-1/2"
34"	38-1/2"
28"	32-1/2"
22"	26-1/2"
16"	20-1/2"
0"	4-1/2"



You **MUST** Allow 2" Of Clearance From Top Of Vehicle **ON** Lift To Lowest Obstruction In Your Garage To Allow The Locking Latches To Release From The Latch Bar Slots For Lowering

Tools Required

Standard	Metric
Tin Snips (To Cut Shipping Bands)	(2) 10mm Combination Wrenches
4' Level	13mm Combination Wrench
1-1/8" Combination Wrench	16mm Combination Wrench
1-5/16" Combination Wrench	(2) 17mm Combination Wrenches
15" And 18" Adjustable Wrenches	Side Cutting Pliers (To Cut Wire Ties)
12 Quarts of Dextron III ATF (For Power Unit) **IMPORTANT** Note: Use Only Dextron III ATF	

NOTE: Maximum allowable floor slope is 1/8" per 1'. If your facility does not meet this specification, you must shim your lift and then anchor it into place. Anchor kit # S100026 must be ordered. Concrete must have a compression strength of at least 3,000 PSI and a minimum thickness of 4-1/4".

Safety

Wear work gloves, steel toed shoes, and safety glasses during the installation of your lift.

IMPORTANT Avoid drug or alcohol use that will impair your ability to install or operate your lift.

⚠ DANGER Improper installation or improper use of your lift could cause serious injury or death. Read installation instructions and owner's manual thoroughly before installing or operating your lift.

Unloading And Unpacking Your Lift

The components for your lift are heavy. The runways for these lifts weigh in excess of 400 lbs. each. The preferred method for unloading your lift is by forklift. **If a forklift is not available a minimum of (4) people able to lift *125 lbs. EACH* will be needed to unload and assemble your lift.**

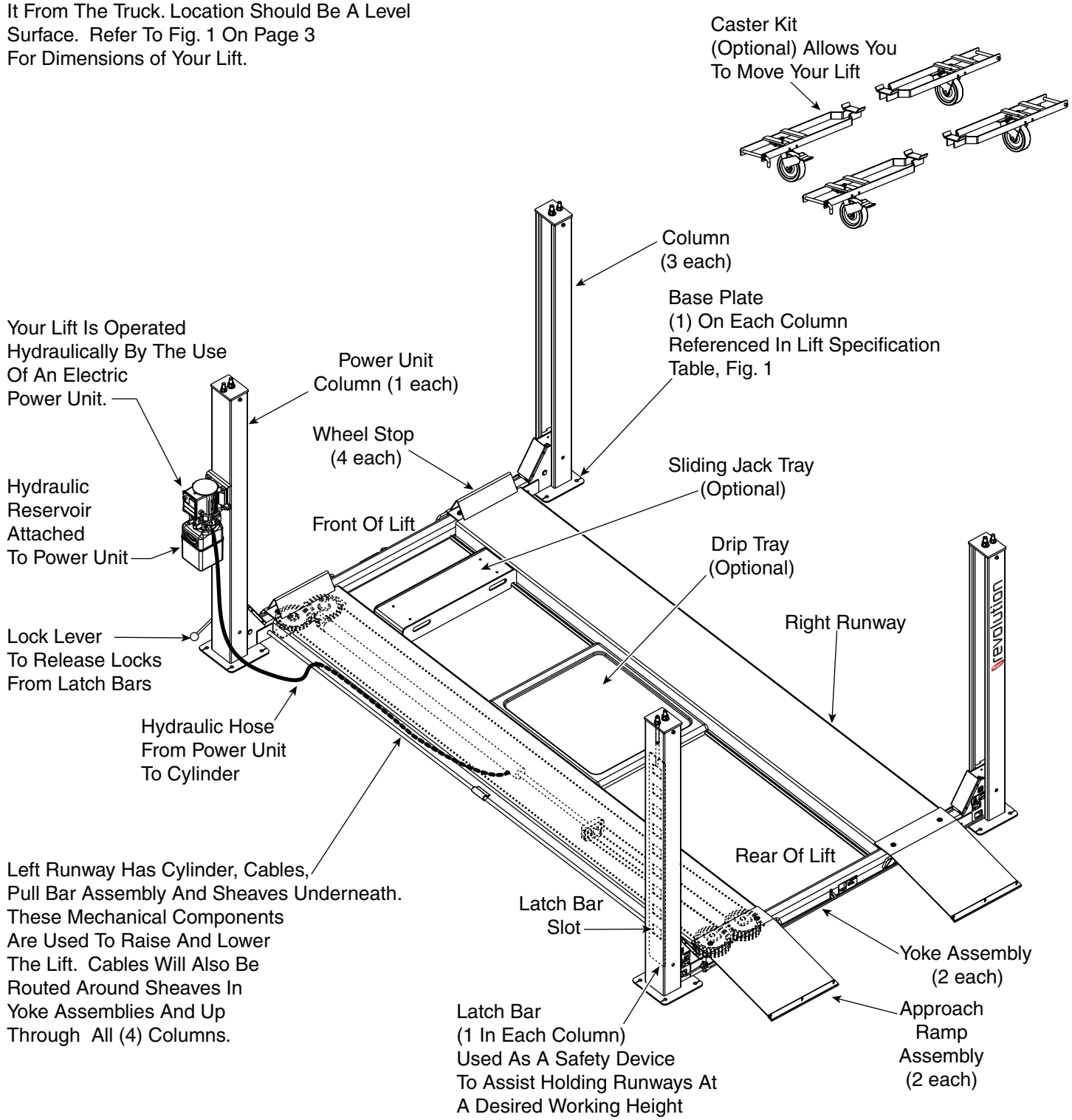
⚠ CAUTION Shipping bands around packages are under extreme tension. Have everyone stand clear when cutting shipping bands.

Note: Use personal protective equipment as required - Lift smart using preferred methods. See your Lifting It Right Manual, page 23.

Examine each lift component as you unload it to check for shipping damage. The following pages have illustrations and quantities of each component for you to check while you are unloading your lift. Some components may be in boxes or bags while others are pre-assembled.

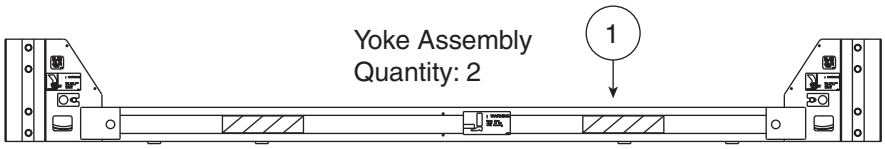
A Quick Overview Of Your Lift

Remember! Prepare A Location For Your Lift Before You Unload It From The Truck. Location Should Be A Level Surface. Refer To Fig. 1 On Page 3 For Dimensions of Your Lift.

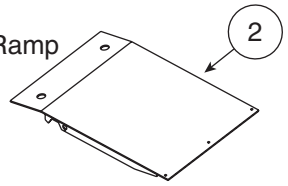


Attention! Extension Cord Used For 115V Power Unit Must Be Rated At 15 Amps Hard Use Or Extra Hard Usage Which Can Be Found In Most Home Improvement Stores. (Provided By Owner) If Your LIft Is Going To Be Placed In A Damp Area, Or Exposed To Water Your Lift Should Be Plugged Into A GFCI (Ground Fault Circuit Interrupter).

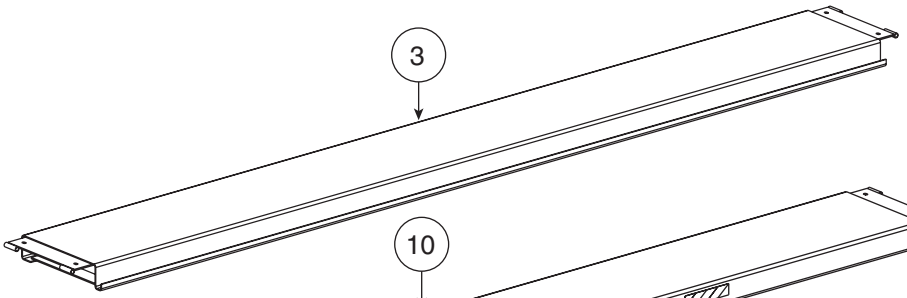
Lift Components



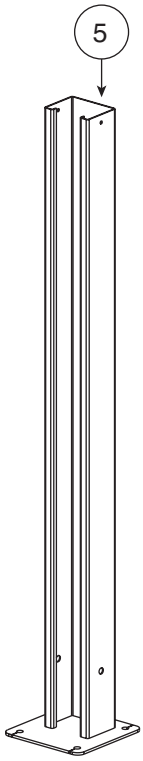
Yoke Assembly
Quantity: 2



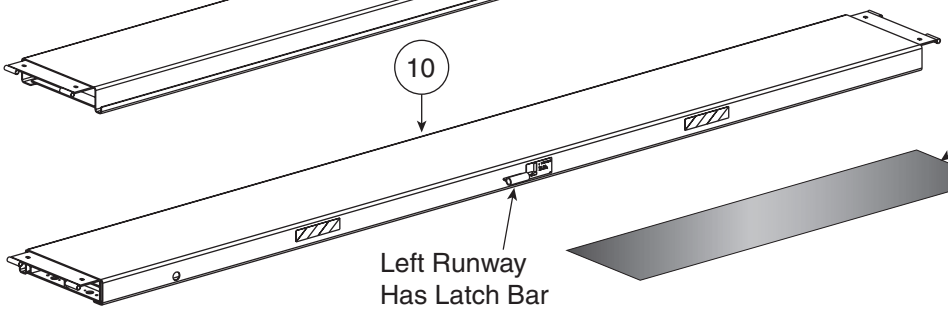
Approach Ramp
Assembly
Quantity: 2



Right Runway
Quantity: 1

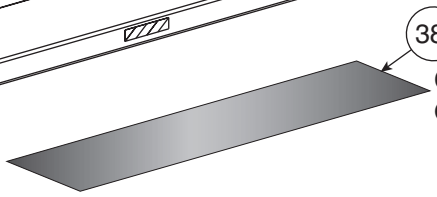


Column
Quantity: 3

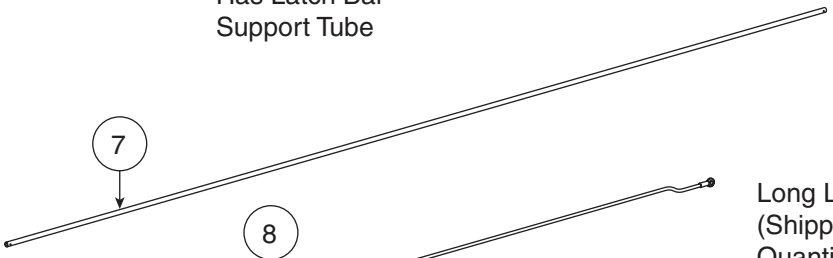


Left Runway
Quantity: 1

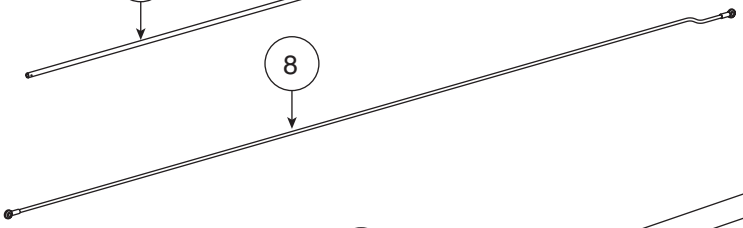
Left Runway
Has Latch Bar
Support Tube



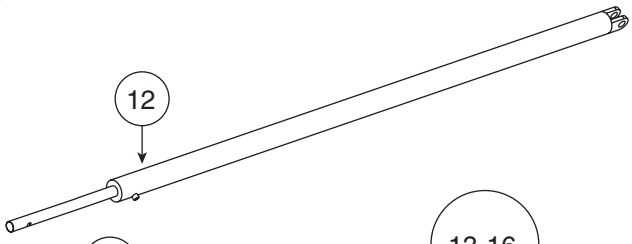
Cylinder/Cable Cover
Quantity: 1



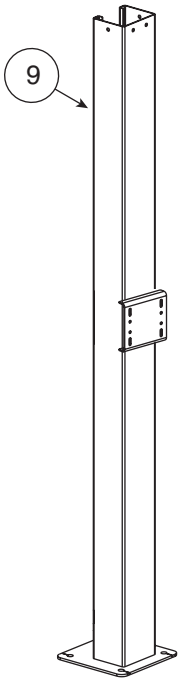
Runway Latch Bar
Quantity: 1



Long Latch Rod Assembly
(Shipped In Yoke Assembly)
Quantity: 2

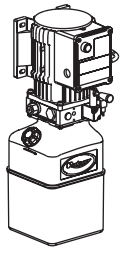


Hydraulic Cylinder
(Pre-Assembled In
Left Runway)
Quantity: 1

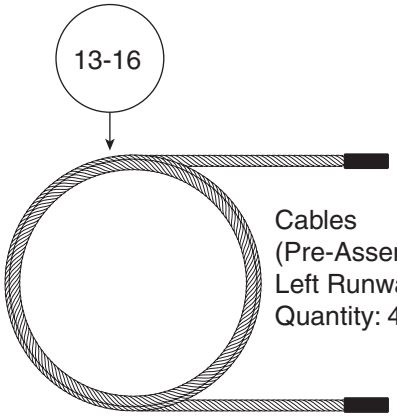


Power Unit
Column
Quantity: 1

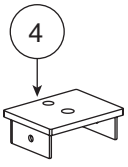
Latch Bar
(Assembled In Columns)
Quantity: 4



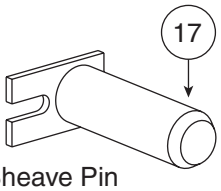
Power Unit
Quantity: 1



Cables
(Pre-Assembled In
Left Runway)
Quantity: 4

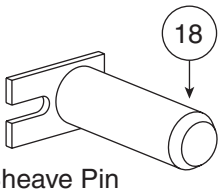


Column Top PLate
(Assembled In Columns)
Quantity: 4

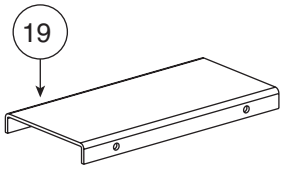


Sheave Pin
(Pre-Assembled In Yoke Ends)
Quantity: 4

Lift Components

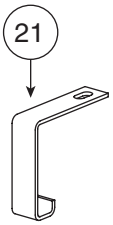


Sheave Pin
(Pre-Assembled In Left Runway)
Quantity: 4

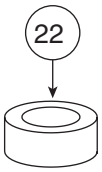


Yoke End Cover
Quantity: 4

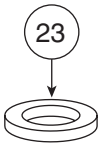
Quick-Release Pin
Quantity: 1



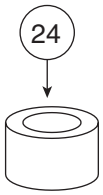
Latch Bar Guide
Quantity: 4



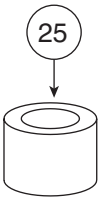
Sheave Spacer 3/4"
(Pre-Assembled In
Left Runway)
Quantity: 2



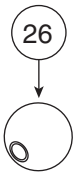
Sheave Spacer 1/4"
(Pre-Assembled In
Left Runway)
Quantity: 6



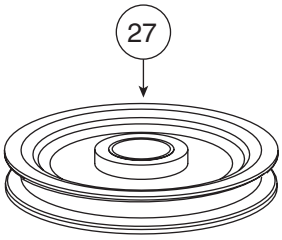
Sheave Spacer 1-1/4"
(Pre-Assembled In Yoke Ends)
Quantity: 8



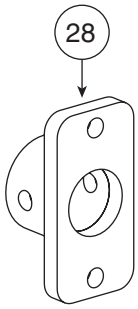
Sheave Spacer 1-7/8"
(Pre-Assembled In
Left Runway)
Quantity: 2



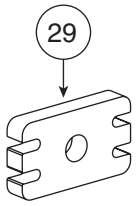
Ball Knob
Quantity: 1



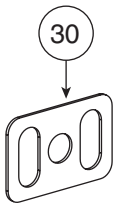
Sheave
(6 Pre-Assembled In
Left Runway)
Quantity: 10



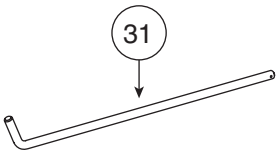
Lock Cam
Quantity: 2



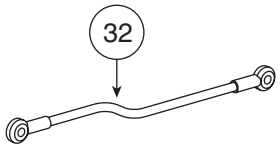
Pull Bar
(Pre-Assembled
In Left Runway)
Quantity: 1



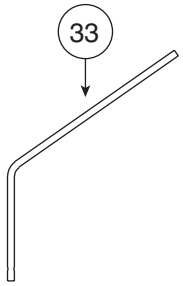
Pull Bar Cover
(Pre-Assembled
In Left Runway)
Quantity: 1



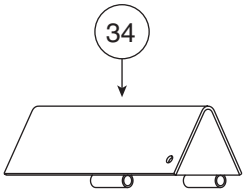
Ramp/Stop Pin
Quantity: 4



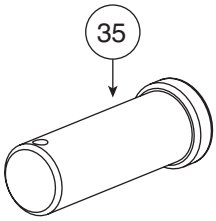
Short Latch Rod Assembly
(Shipped In Yoke Assembly)
Quantity: 2



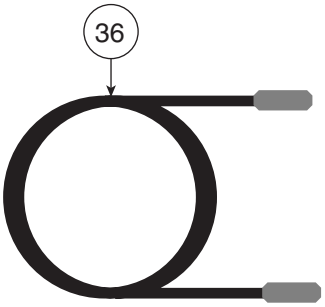
Lock Lever
Quantity: 1



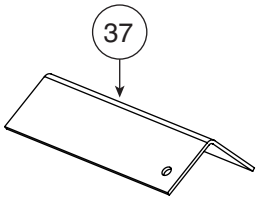
Wheel Stop
Quantity: 4



Clevis Pin (Cylinder)
(Pre-Assembled
In Left Runway)
Quantity: 1



Hydraulic Hose
(Pre-Assembled
In Left Runway)
Quantity. 1



Triangular Wheel Chock
Quantity. 2

Lift Component Parts Breakdown Table

ITEM	DESCRIPTION	STANDARD PART NO.	XLT PART NO.	QTY.
1	Yoke Assembly	S110140	S110139	2
2	Approach Ramp Assy			
	Standard	S110142	S110142	2
	Extended	S110183	S110183	2
	Aluminum Extended	S110206	S110206	2
3	Right Runway	S110149	S110151	1
4	Column Top Plate	S120400	S120400	4
5	Column With Revolution Decal	S110221	S110222	2
	Column Without Revolution Decal	S110181	S110182	1
6	Latch Bar	S120381	S120412	4
7	Runway Lock Bar	S120376	S120417	1
8	Long Latch Rod	S110148	S110147	2
9	Power Unit Column	S110145	S110153	1
10	Left Runway	S110150	S110152	1
11	Power Unit			
	115 Volt (190 bar relief valve)	P1424	P1424	1
	220 Volt (190 bar relief valve)	P1425	P1425	1
12	Cylinder	S130093 (64" Stroke)	S130095 (77" Stroke)	1
13	Cable #1	S130089	S130096	1
14	Cable #2	S130090	S130097	1
15	Cable #3	S130091	S130098	1
16	Cable #4	S130092	S130099	1
17	* Sheave Pin (Yoke Assembly)*	S130100	S130100	4
18	* Sheave Pin (Left Runway)*	FC522-34	FC522-34	4
19	Yoke End Cover	S130113	S130113	4
20	Quick-release pin	S130111	S130111	1
21	Latch Bar Guide	S120508	S120508	4
22	Sheave Spacer 3/4"	S130106	S130106	2
23	Sheave Spacer, 1/4"	S130107	S130107	6
24	Sheave Spacer 1-1/4"	S130105	S130105	8
25	Sheave Spacer 1-7/8"	S130109	S130109	2
26	Ball Knob	S130110	S130110	1
27	Sheave	S130094	S130094	10
28	Lock Cam	S120432	S120432	2
29	Pull Bar	S120435	S120435	1
30	Pull Bar Cover Plate	S120437	S120437	2
31	Ramp/Stop Pin	S120428	S120428	4
32	Short Latch Rod	S110146	S110146	2
33	Lock Lever	S120420	S120420	1
34	Wheel Stop Assembly	S120416	S120416	4
35	Clevis Pin (cylinder)	FC5346-1	FC5346-1	1
36	Hydraulic Hose	S130119	S130119	1
37	Trianqular Wheel Stop	FC320	FC320	2
38	Cylinder/Cable Cover	S130127	S130126	1

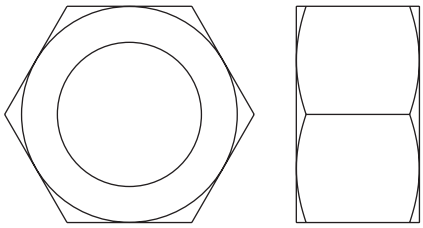
*** Yoke assembly sheave pins and left runway sheave pins look the same but are different lengths. DO NOT interchange!**

****S100047 is an after purchase Ramp Kit containing (2) S110206 Aluminum Extended Ramps.**

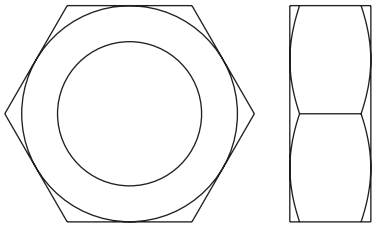
Lift Fasteners

Part #	Description	Quantity
40760	3/4 -10NC Latch Bar Nut	4
40759	3/4 -10NC Latch Bar Jam Nut	4
41021	3/4" SAE Flat Washer	4
40765	7/8"-9NC Hex Nut	4
40766	7/8"-9NC Jam Nut	4
41074	7/8" SAE Flat Washer	4
41533	M27x3 Nylon Insert Hex Lock Nut	1
41534	M27 Washer	1
S130063	Runway Grommet	1
41169	1/8" x 1-15/16" Hair Pin Cotter	4
41248	Cotter Pin (Cylinder)	1
41555	M6x1, 30mm lg. hex head bolt	8
41557	M6x1, 40mm lg. Hex Head Bolt	2
41556	M6x1, Nylon Insert Hex Lock Nut	10
FA7210-4	M6 Washer	8
41539	M8x1.25, 30 mm lg. Hex Head Bolt	4
41541	M8x1.25 Flanged Hex Lock Nut	4
41548	M8 Washer	4
41551	M10x1.5, 30mm lg. Hex Head Bolt	4
41560	M10 x 1.5 16mm lg. Hex Head Bolt	4
41537	M10x1.5 Nylon Insert Hex Lock Nut.	4
S130120	Nylon Tree Rivet	16
40176	M12x1.75, 20 mm lg. Flanged Hex Head Bolt	12

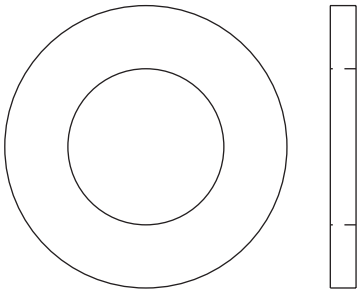
Lift Fastener Ledger



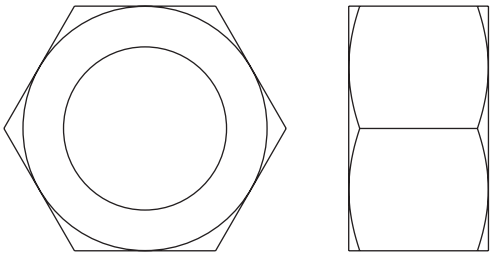
3/4-10NC Latch Bar Nut
Qty. 4



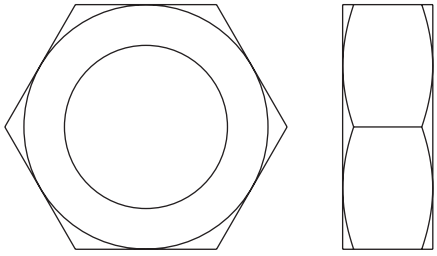
3/4-10NC Latch Bar Jam Nut
Qty. 4



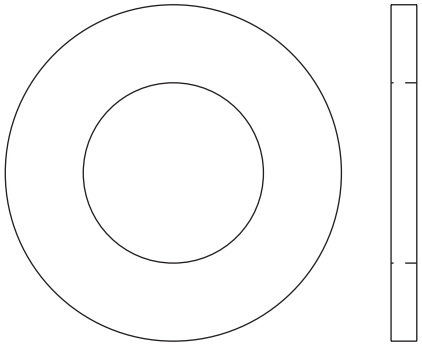
3/4" SAE Flat Washer
Qty. 4



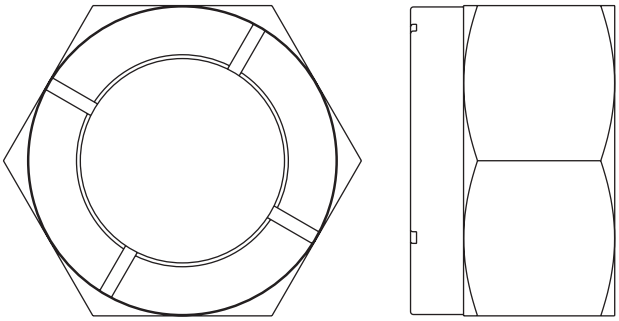
7/8-9NC Hex Nut
Qty. 4



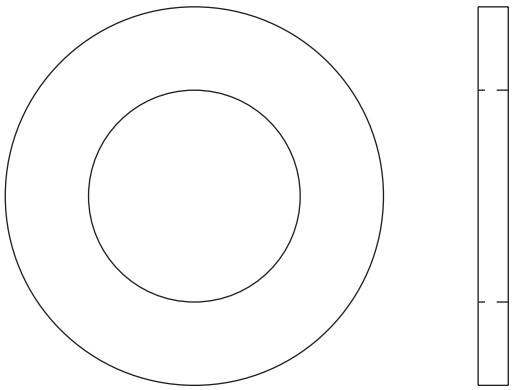
7/8-9NC Hex Jam Nut
Qty. 4



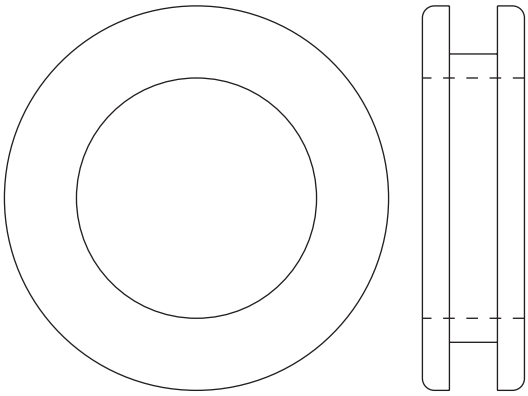
7/8" SAE Flat Washer
Qty. 4



M27x3 Nylon Insert
Hex Lock Nut
(Pre-Assembled To Cylinder In Left Runway)
Qty. 1

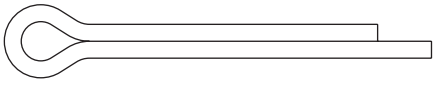


M27 Washer
(Pre-Assembled To Cylinder In Left Runway)
Qty. 1



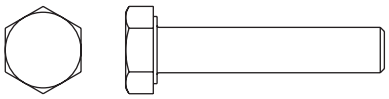
Hole Grommett
(Pre-Assembled To Cylinder In Left Runway)
Qty. 1

1/8" x 1-15/16"
Hair Pin Cotter
Qty. 4

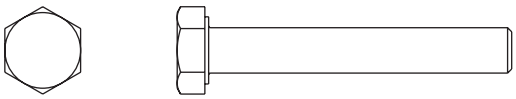


Cotter Pin
(Pre-Assembled To Cylinder In Left Runway)
3/16" x 1-1/2"
Qty. 1

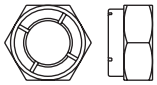
Lift Fastener Ledger



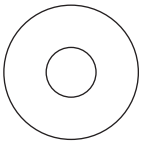
M6 x 1, 30mm lg.
Hex Head Bolt
Qty. 8



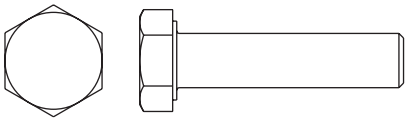
M6 x 1, 40mm lg.
Hex Head Bolt
Qty. 2



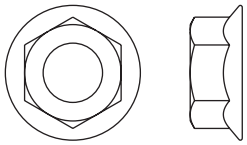
M6 x 1
Nylon Insert Hex Lock Nut
Qty. 10



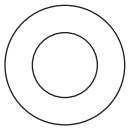
M6 Washer
Qty. 8



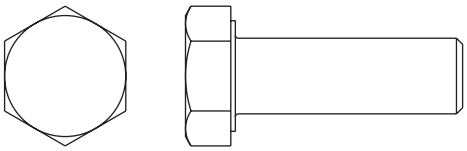
M8 x 1.25, 30mm lg.
Hex Head Bolt
Qty. 4



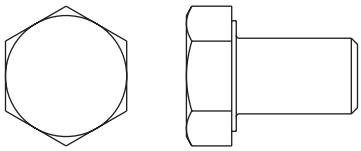
M8 x 1.25
Flanged Hex Lock Nut
Qty. 4



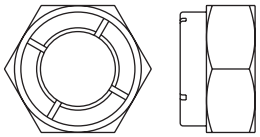
M8 Washer
Qty. 4



M10 x 1.5 30mm lg.
Hex Head Bolt
Qty. 16

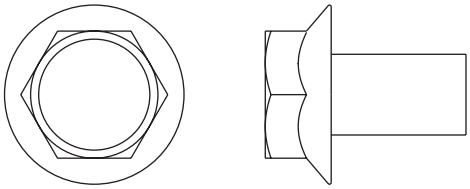


M10 x 1.5 16mm lg.
Hex Head Bolt
Qty. 4



M10 x 1.5
Nylon Insert Hex Lock Nut
Qty. 4

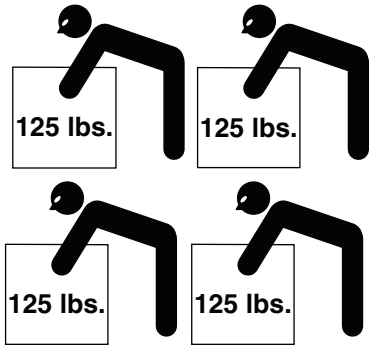
Nylon Tree Rivet
Qty. 16



M12 x 1.75, 20mm lg.
Flaged Hex Head Bolt
Qty. 12

Step 1: Setting Runways:
A.) If you haven't read pages 3 through 6 go back and do so now.
B.) Place runways in desired location according to Fig. 2.
Note: The runways weigh in excess of 400 lbs. Use a minimum of 4 people to move these runways.

Attention! Use 4 People To Place Runways



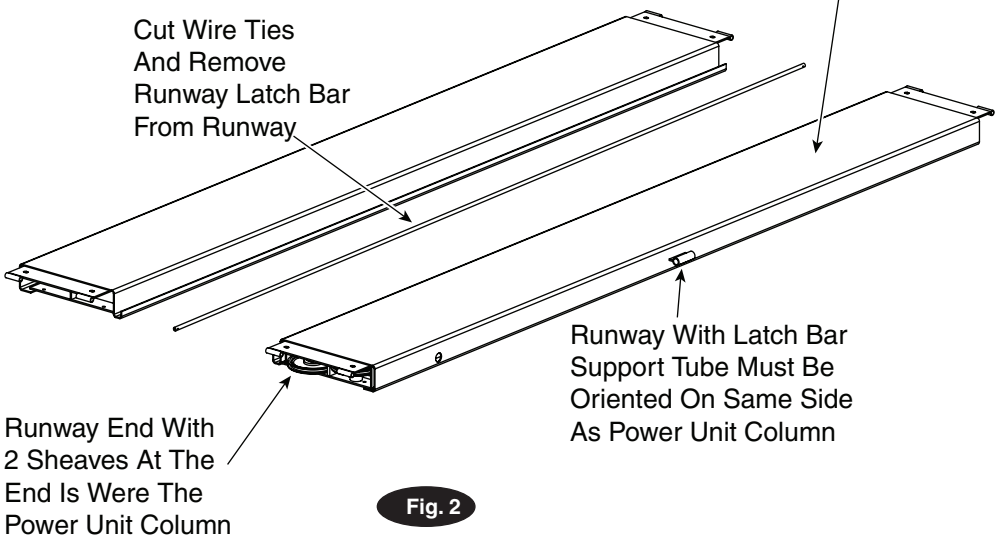


Fig. 2

Step 2: Placing Columns:
A.) Place columns around runways, Fig. 3.

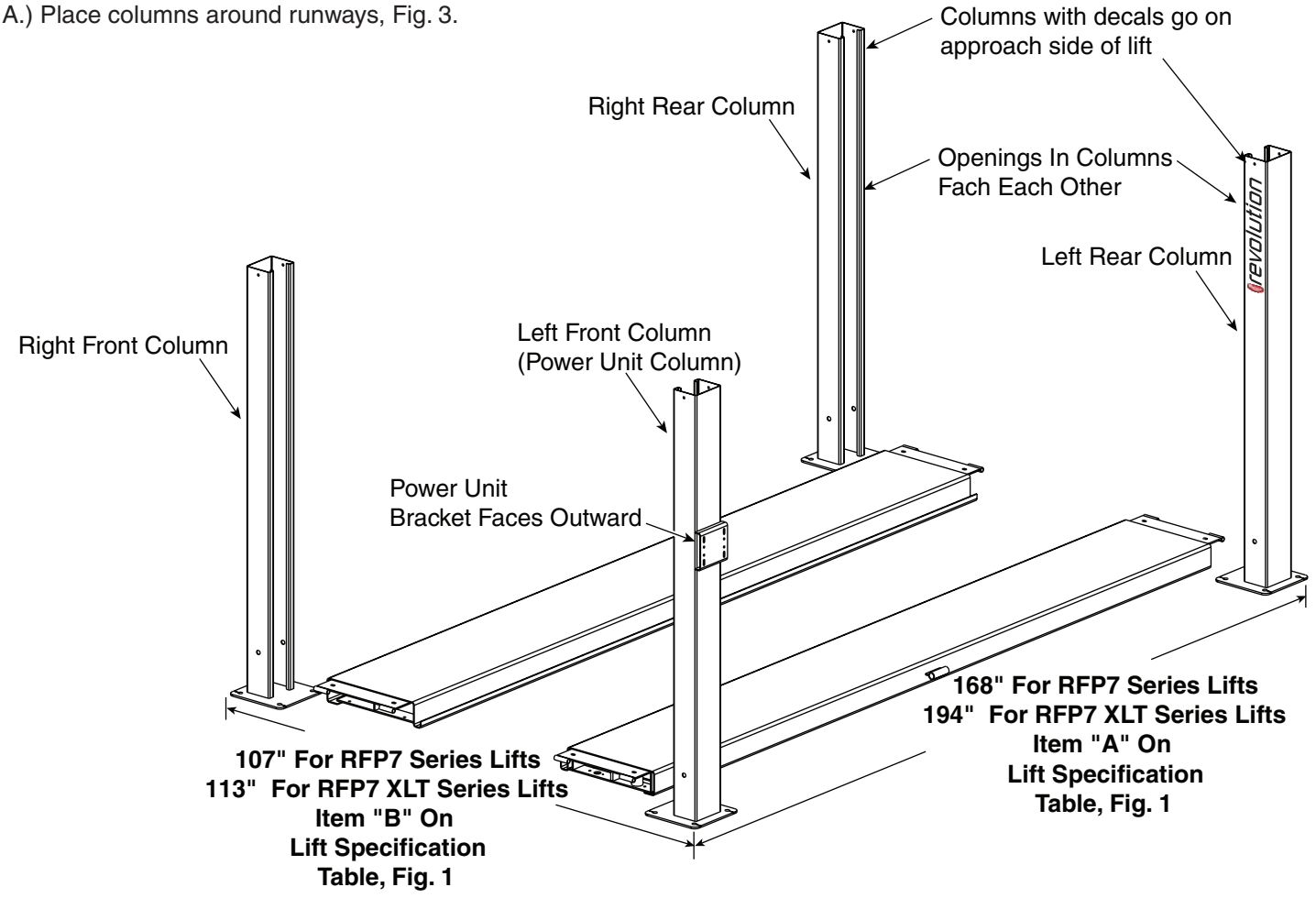
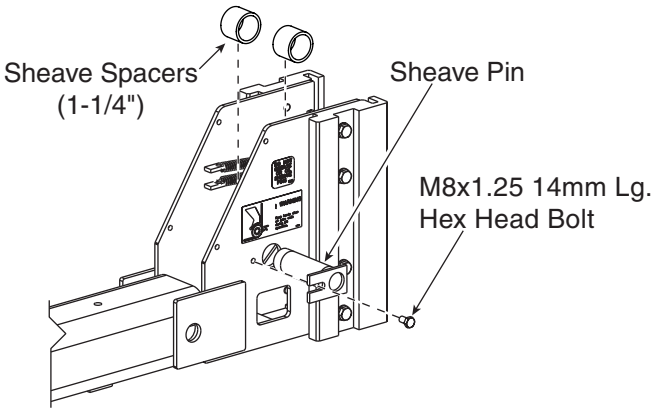


Fig. 3

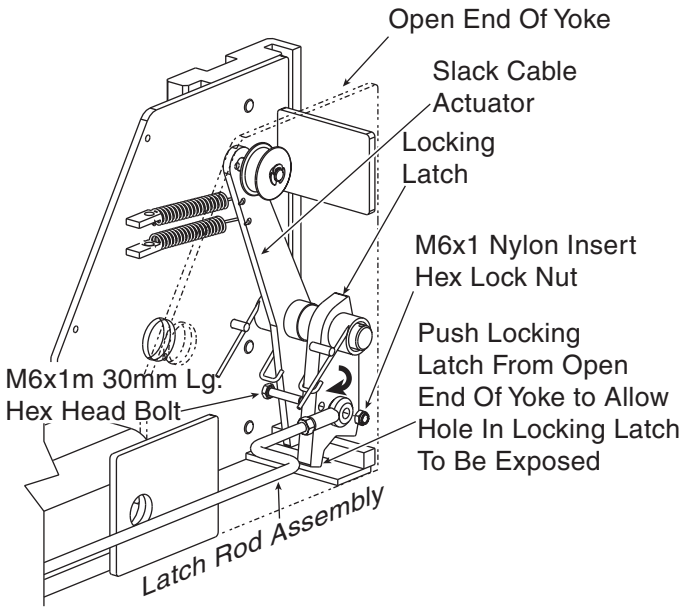
Step 3: Attaching Latch Rods Into Yoke Assemblies:
A.) Remove M8 x 1.25 14mm Lg. hex head bolts, sheave pins, and 1-1/4" sheave spacers from yoke assemblies **Step A** of Fig. 4. They will be reinstalled later, (Step 12), when you place the sheaves in the yoke assemblies.
B.) Layout your yoke assemblies as in **Step B** of Fig. 4.
C.) Tighten swivel eyelets and nuts on latch rod ends to be inserted into yoke assemblies, **Step C** of Fig. 4.
D.) Insert latch rods into yoke assemblies and attach them to locking latches with (1) M6 x 1m 30mm Lg. hex head bolt and (1) M6 x 1 nylon insert hex head nut, Fig. 4 **Step B**.

Note: Please review **Transparent View Of Lock Assembly** Fig. 4, you will have to push locking latch away from slack cable actuator (in direction of the arrow) to expose the bolt hole in the locking latch.

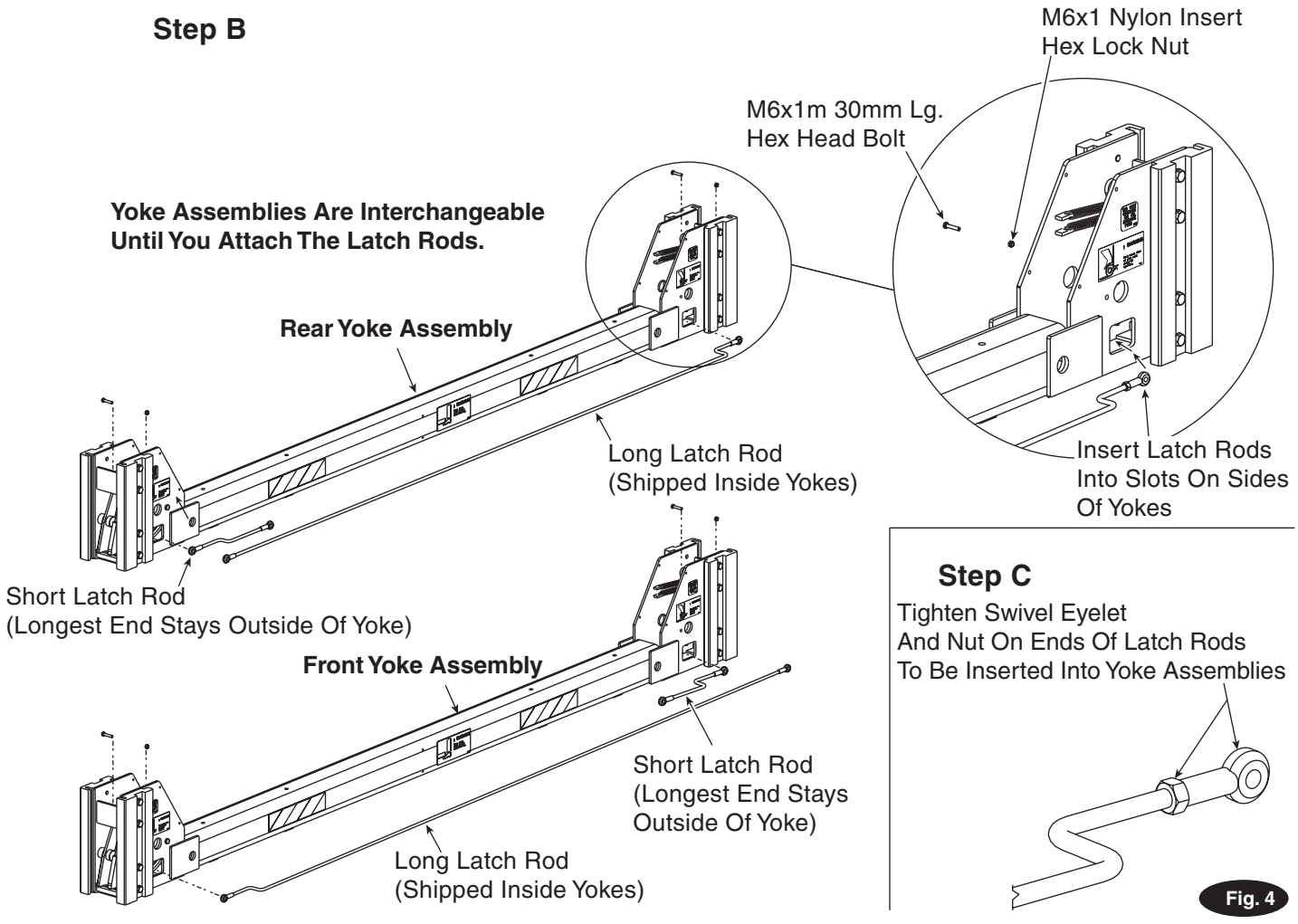


Step A

Transparent View Of Lock Assembly



Step B



Step C

Tighten Swivel Eyelet
And Nut On Ends Of Latch Rods
To Be Inserted Into Yoke Assemblies

Fig. 4

Step 4: Laying Yoke Assemblies On Runways:
A:) Lay yoke assemblies on runways with brackets facing up, Fig. 5. Place cardboard underneath the yoke assemblies to prevent scratching the paint.

IMPORTANT **Note:** Make sure you orient the yoke assemblies with the short latch rods on the same side as the power unit column , Fig. 5.

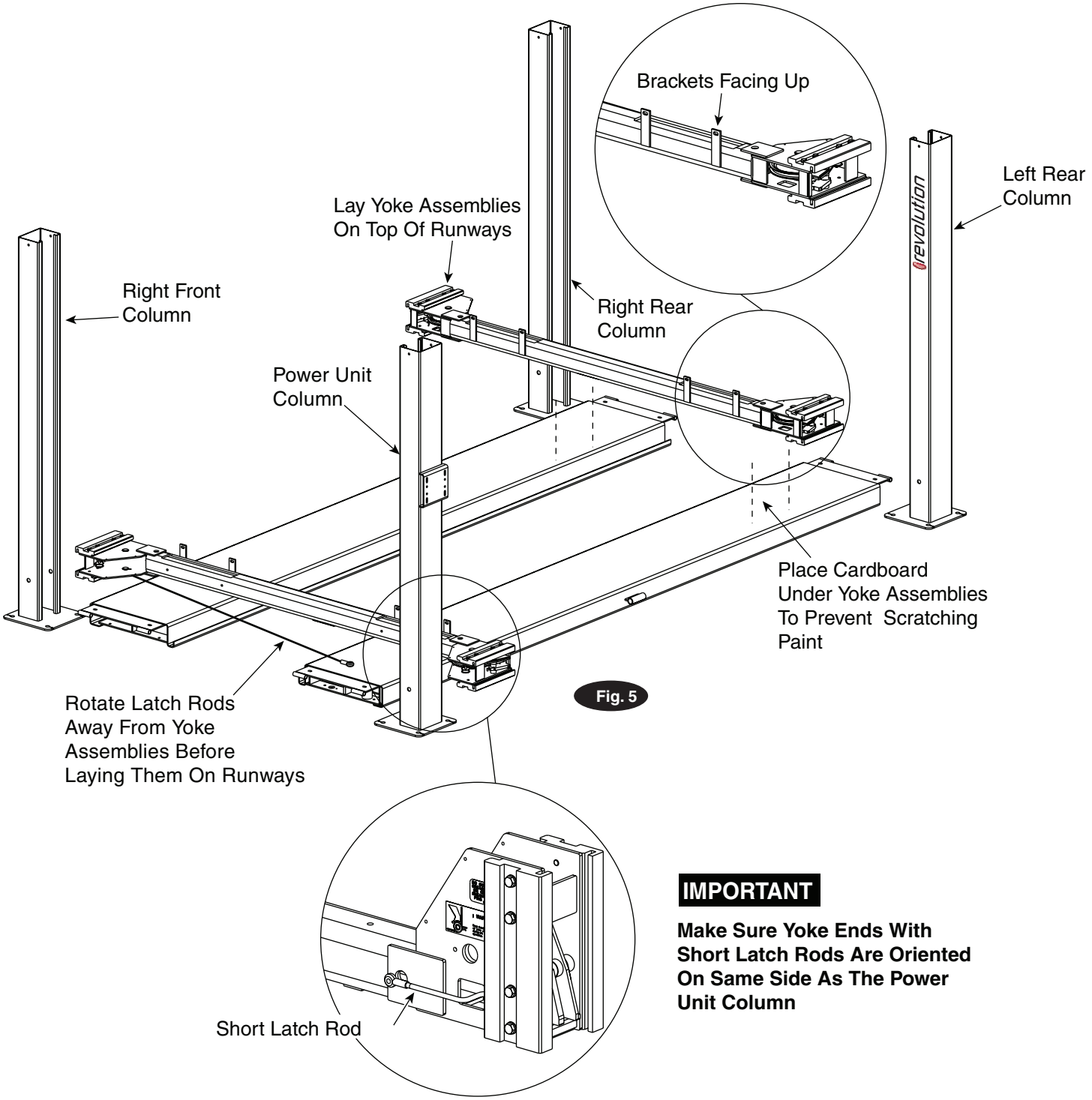


Fig. 5

IMPORTANT

Make Sure Yoke Ends With Short Latch Rods Are Oriented On Same Side As The Power Unit Column

Step 5: Attaching Yoke Assemblies Into Columns:
A.) Have someone hold the yoke assembly while pushing or sliding each column onto the slider blocks of the yoke assemblies. Push columns until yoke end assemblies touch the column base plates, Fig 6.

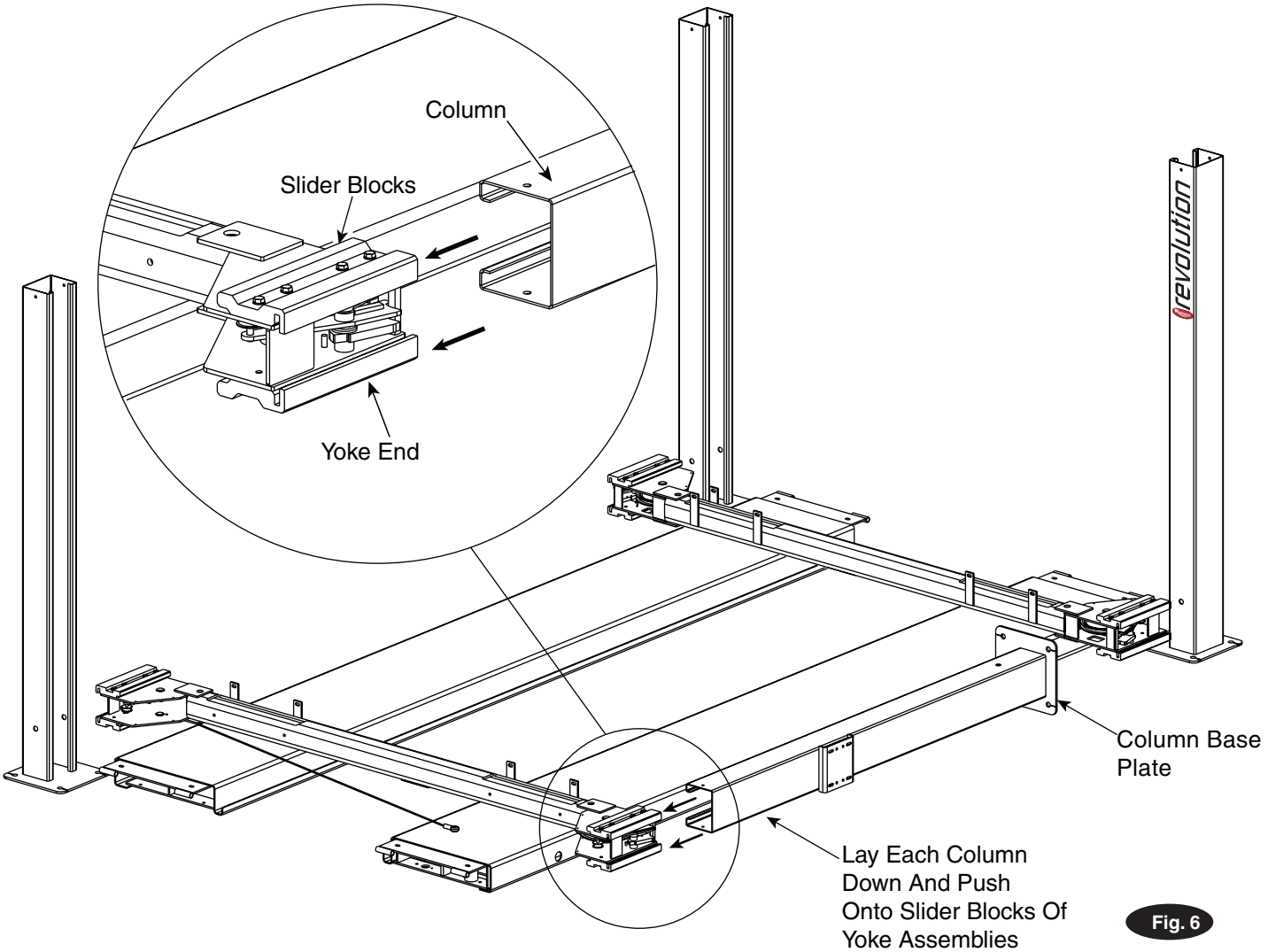


Fig. 6

Step 6: Reinstalling Latch Bars Into Columns And Yoke Assemblies:

A.) Insert (1) latch bar into each column, Fig. 7.

B.) Insert latch bars into slider blocks leaving approximately 1-1/2" of the stud exposed out of the top of the column, Fig. 7.

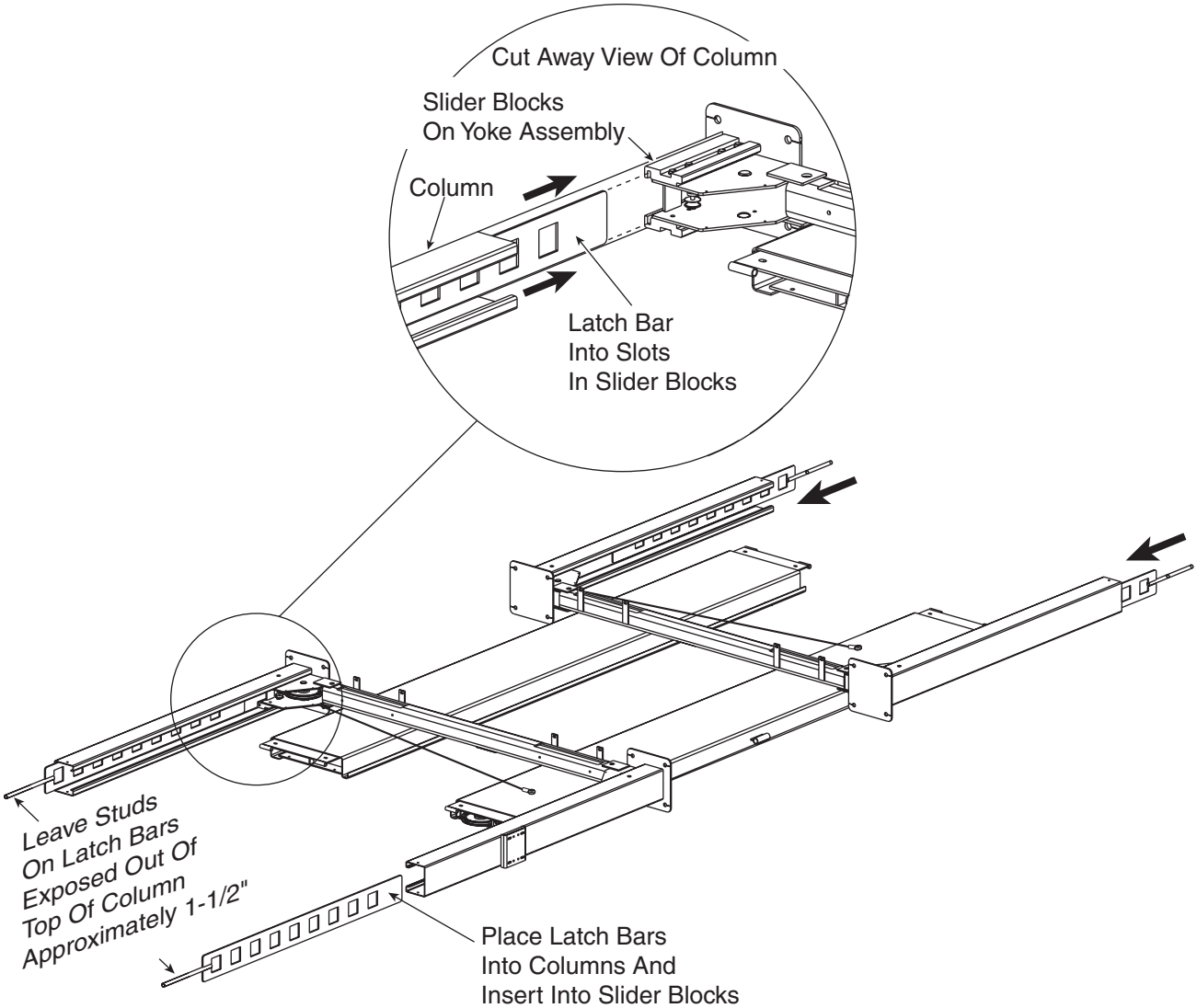


Fig. 7

Step 7: Reinstalling Column Top Plates:
A.) Install (1) column top plate in each column, Fig. 8. Make sure latch bar jam nut is located far enough down the latch bar stud to allow you to fully insert the column top plate in the top of the column.
B.) After column top plates have been installed adjust latch bar nut and latch bar jam nut, Fig. 9.

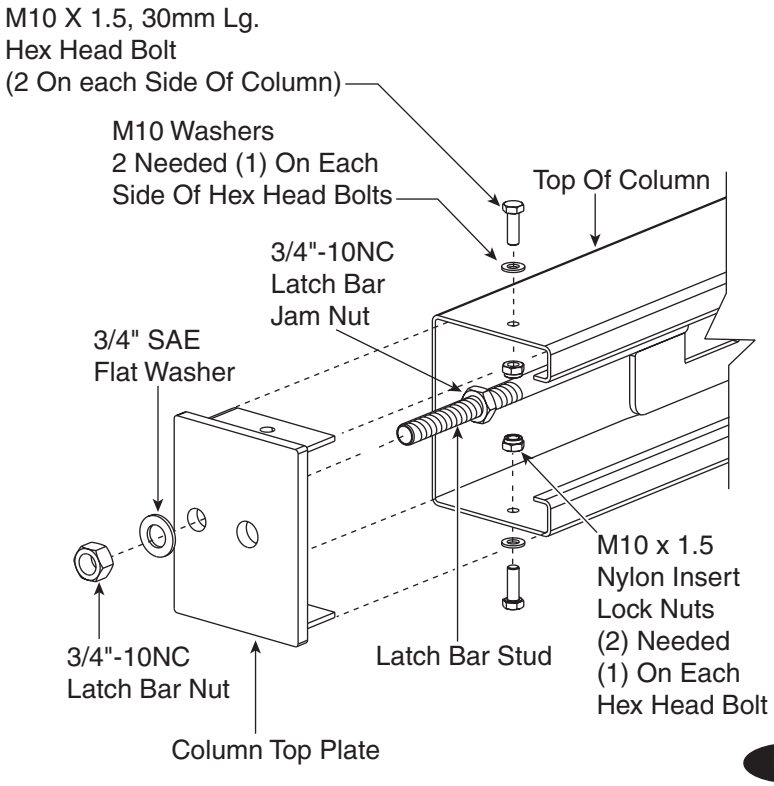


Fig. 8

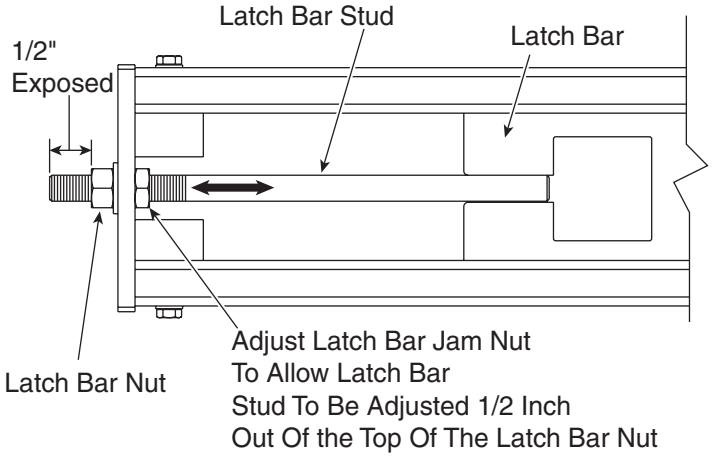


Fig. 9

Step: 8: Standing Up Columns:
A.) After all of the column top plates have been installed and the latch bars adjusted in the columns, stand them up at the end of each runway, Fig. 10. Use a minimum of (2) people to raise column and yoke assemblies.
B.) Attach (1) latch rod guide around long latch rods to each yoke end assembly, Fig. 10. See Inset A for hardware detail.

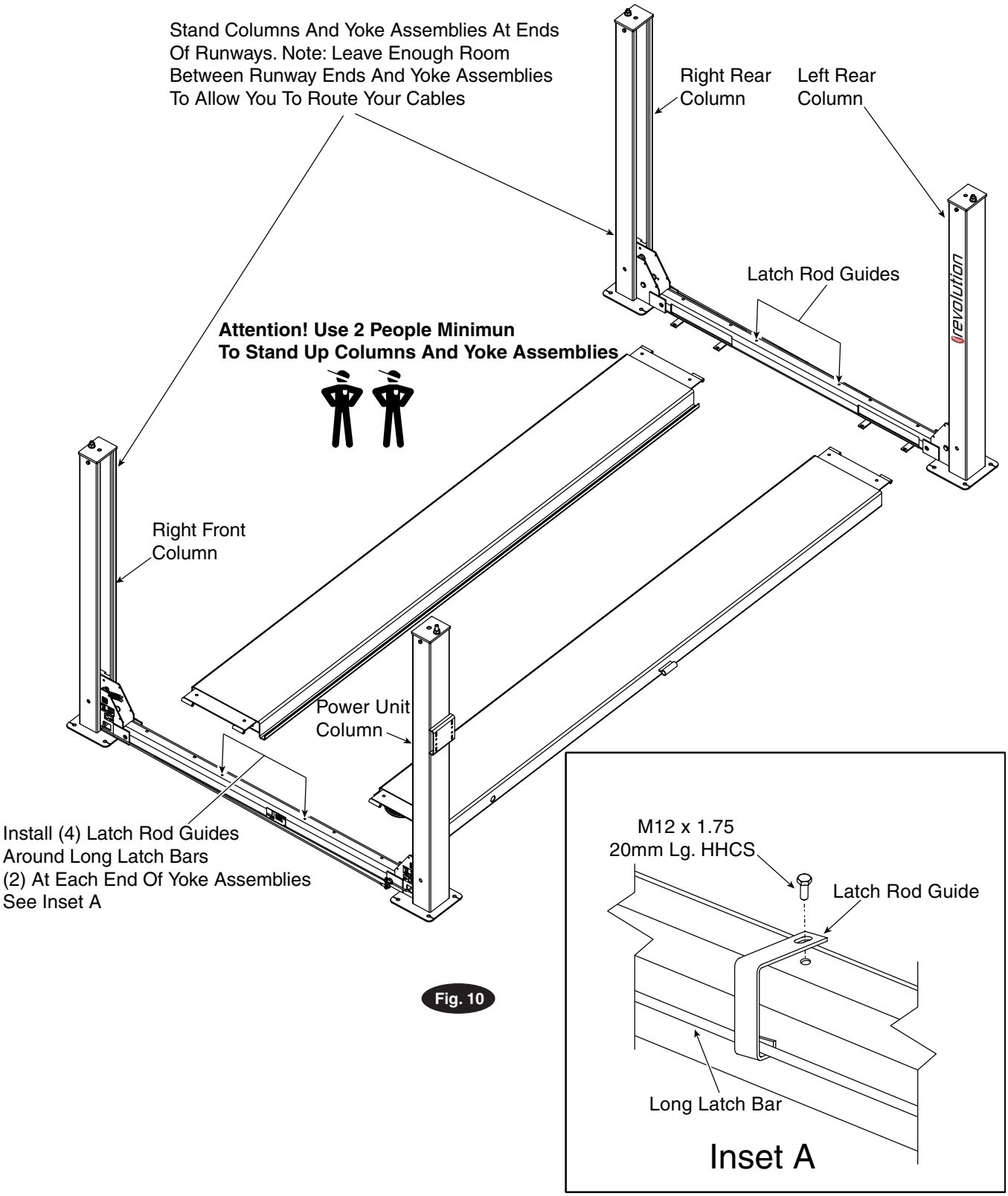


Fig. 10

IMPORTANT **Review steps 9 thru 12 before starting on step 9. It is very important that the cables and sheaves in yoke assemblies get installed properly. Failure to do so will cause damage to your lift!**

Step 9: Cutting Wire Ties From Cables and Hydraulic Hose:

A.) Rotate Left runway as shown in Fig. 11 and cut wire ties from cables and hydraulic hose.
B.) Route hydraulic hose up though hole in runway, Fig. 11.
C.) Route Cables out of ends of left Runway, Fig. 11.
D.) Rotate left runway back down onto the floor making sure not set runway on cables or hydraulic hose.
E.) Route cables through slots in yoke assemblies, Fig. 11, running each cable in the direction of its respective column. **DO NOT** cross cables.

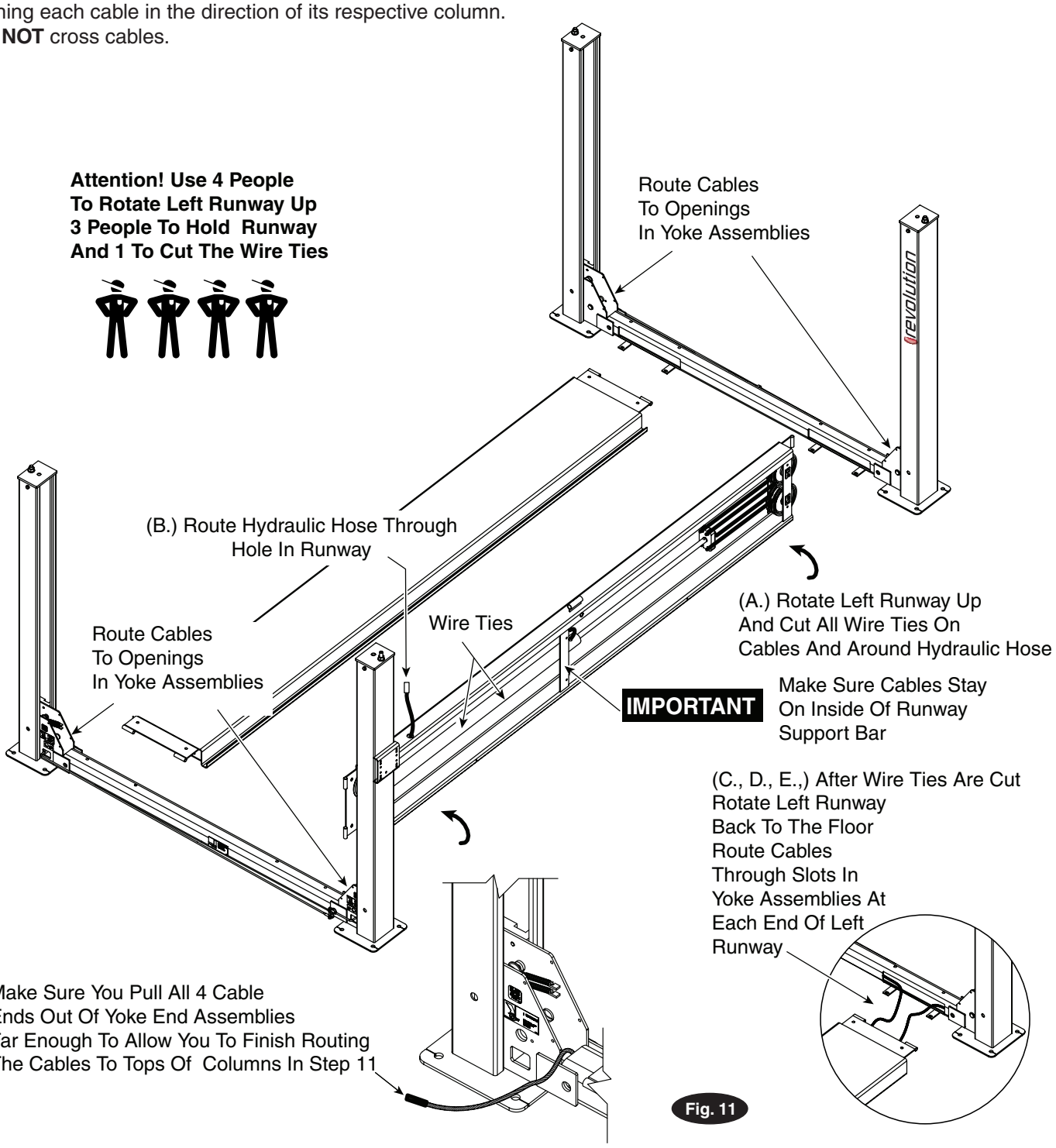


Fig. 11

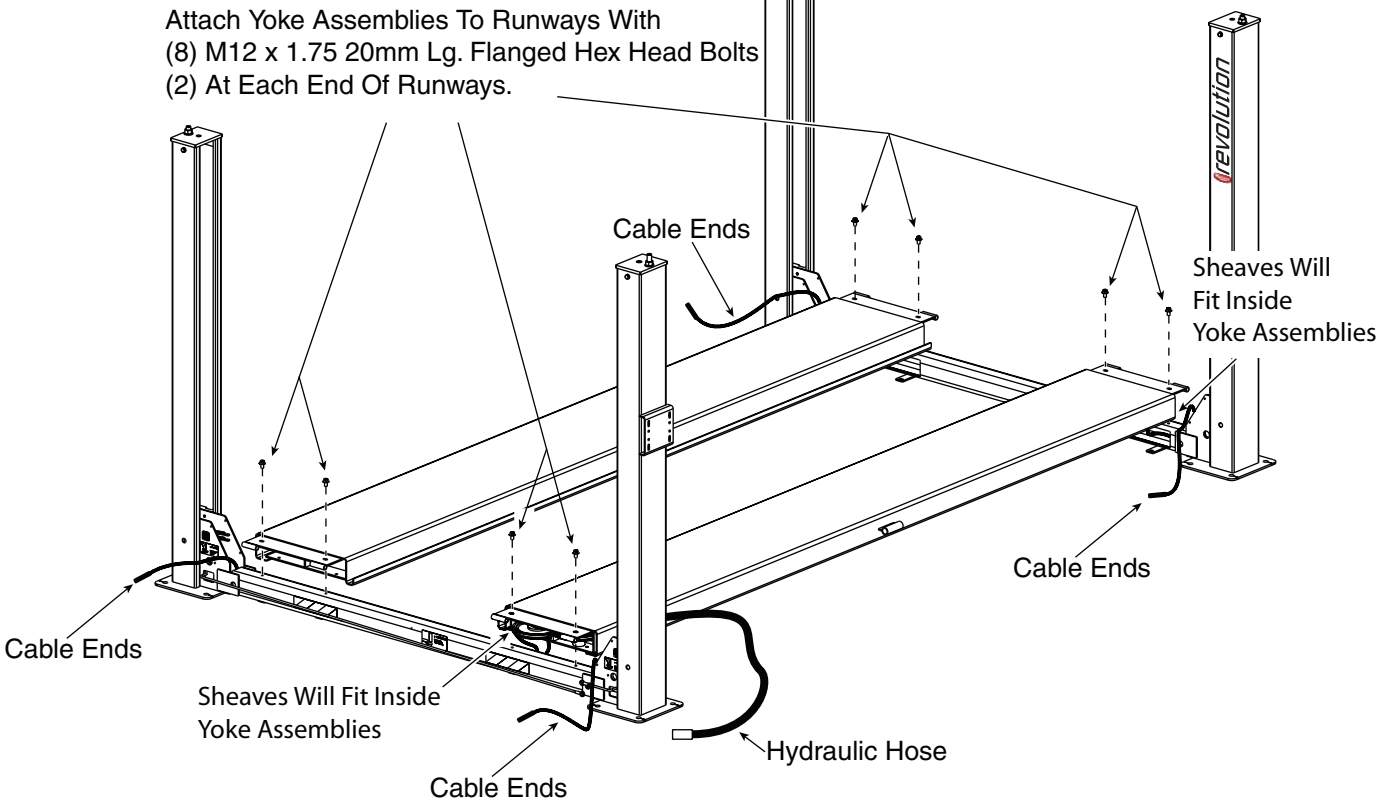
Step 10: Attaching Runways To Yoke Assemblies And Columns:

A.) Use (4) people to install yoke assemblies to runways, Fig. 12.

B.) Make sure all bolts are tight.

Attention! Use 4 People To Install Yoke Assemblies And Columns To Runways.

IMPORTANT **Make Sure All Bolts Are Tight!**



⚠ CAUTION **Be Careful Not To Trip Over Cable Ends Coming Out Of Yoke Assemblies Or Hydraulic Hose Coming Out Of The Side Of The Left Runway**

Fig. 12

Step 11: Attaching Cables To Columns:
A.) Review cable routing illustration, Fig. 13 to see how the cables are routed to the columns.
B.) Route cables up each column keeping the cables on the inside of the slack cable actuators, Fig. 14.
C.) Attach cable studs to column top plates, Fig. 14.

⚠CAUTION **Make Sure Cables Are Not Crossed! Crossed Cables Will Result In Broken Cables And Possible Sheave And Sheave Pin Damage.**

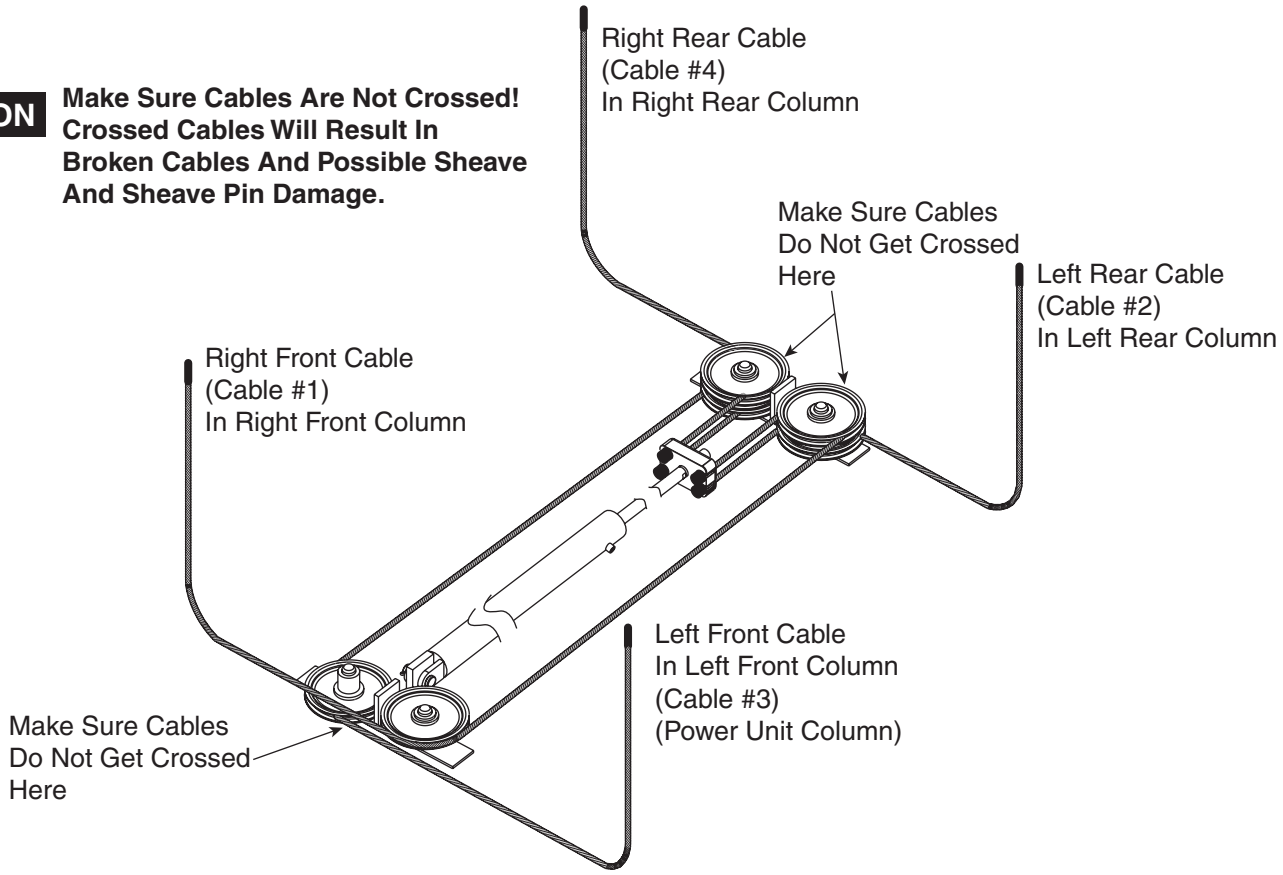


Fig. 13

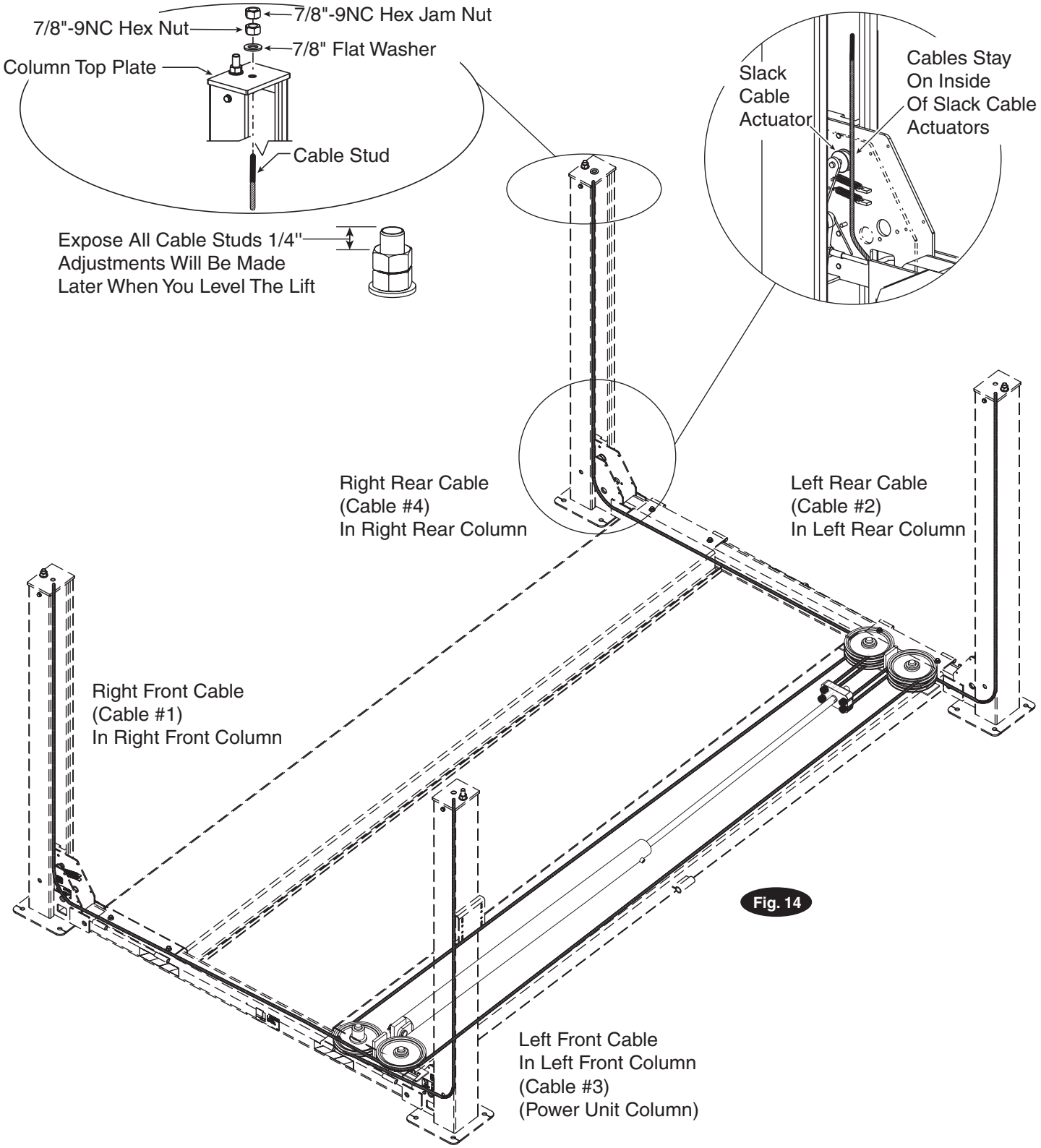

7/8"-9NC Hex Jam Nut
7/8"-9NC Hex Nut
7/8" Flat Washer
Column Top Plate
Cable Stud
Expose All Cable Studs 1/4"
Adjustments Will Be Made
Later When You Level The Lift
Slack
Cable
Actuator
Cables Stay
On Inside
Of Slack Cable
Actuators
Right Rear Cable
(Cable #4)
In Right Rear Column
Left Rear Cable
(Cable #2)
In Left Rear Column
Right Front Cable
(Cable #1)
In Right Front Column
Left Front Cable
In Left Front Column
(Cable #3)
(Power Unit Column)

Fig. 14

Step 12: Installing Sheaves In Yoke End Assemblies:
A.) Install (1) sheave and (2) 1-1/4" sheave spacers in each yoke end assembly, Fig. 15, with sheave pins and sheave spacers you removed in step 3.

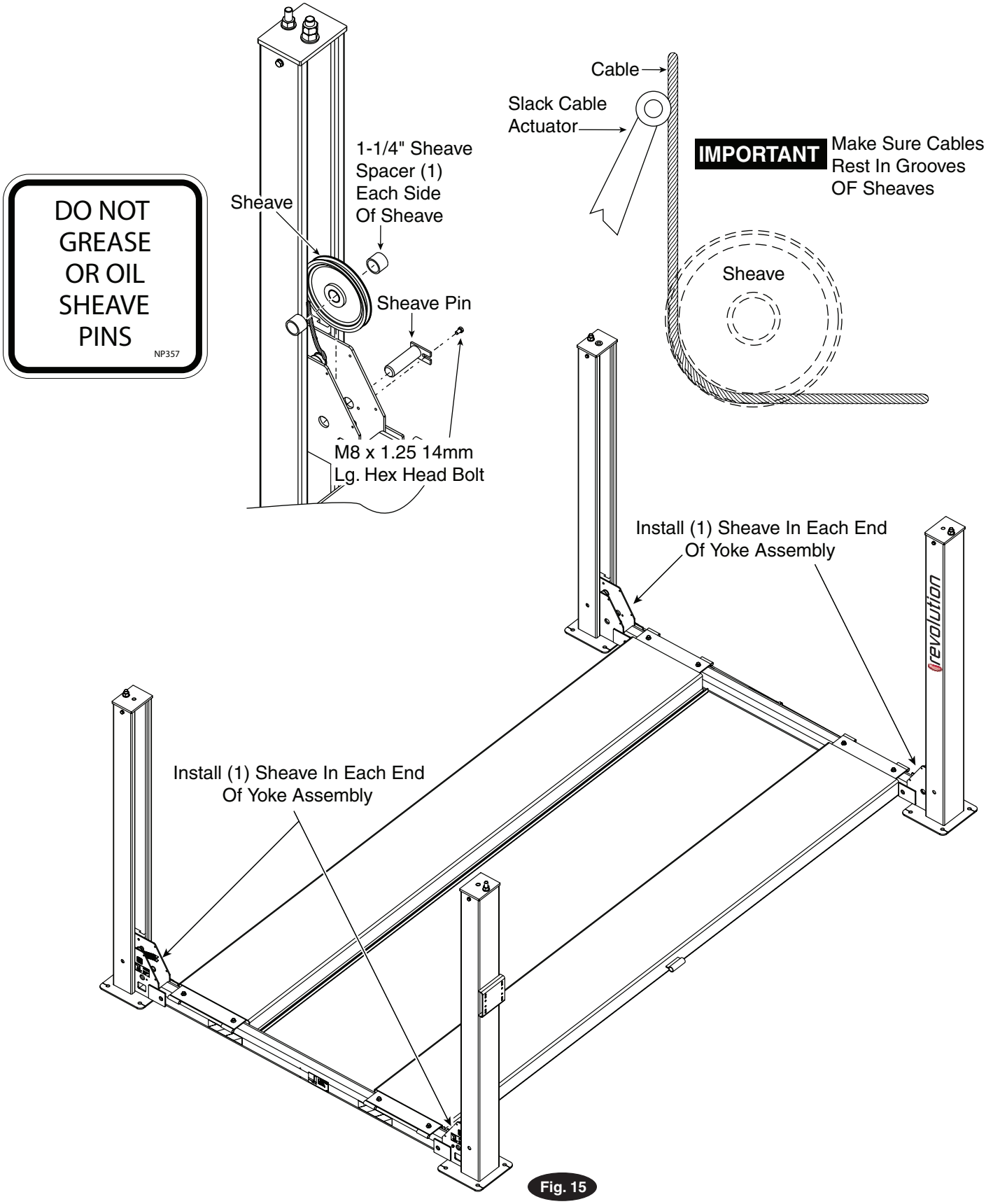


Fig. 15

Step 13: Installing Power Unit:
A.) Install power unit to power unit bracket, Fig. 16. Using (4) M8 x 1.25 x 30mm Lg. HHCS, (4) M8 flat washers, and (4) M8 x 1.25 Hex FLGD WzLock Nut, PLTD.

Step 14: Installing Hydraulic Hose:
A.) Route runway grommet down hydraulic hose and into hole in runway, Fig. 17.
B.) Attach hydraulic hose into 90° elbow of power unit, Fig. 17.

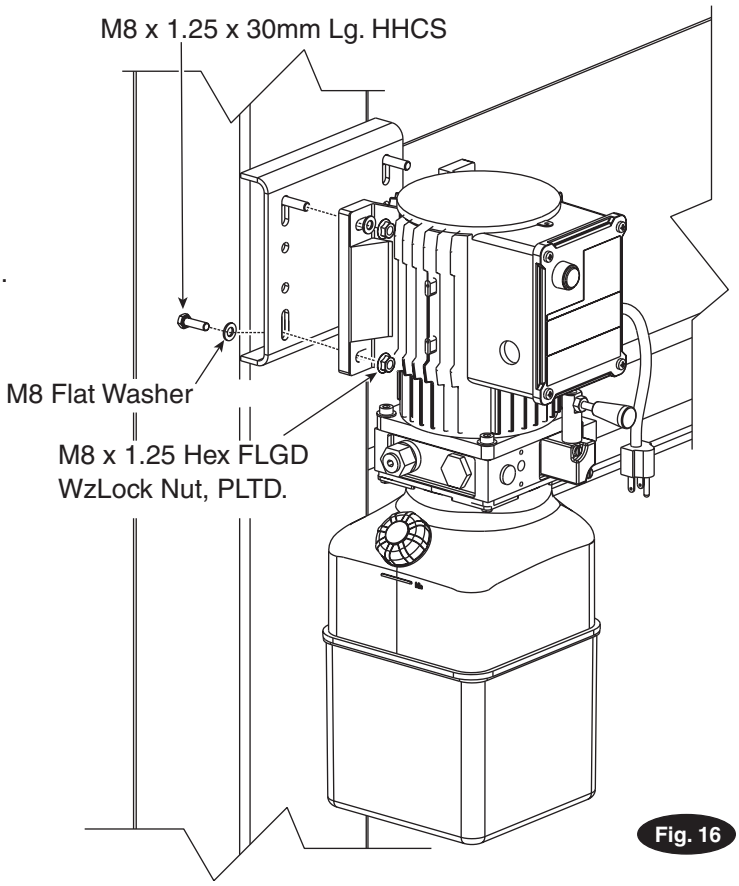


Fig. 16

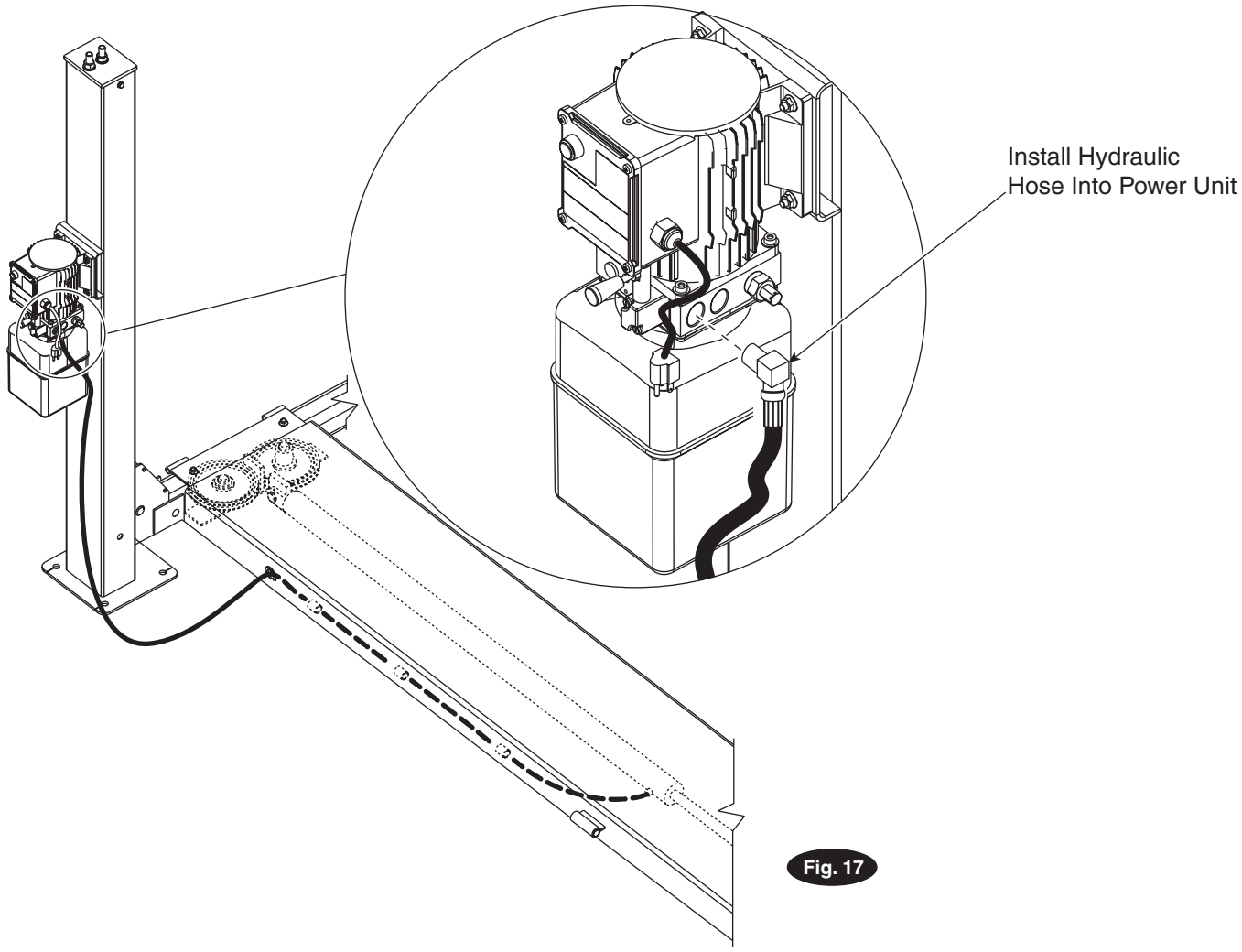


Fig. 17

Step 15: Adding Hydraulic Fluid To Power Unit:
A.) Remove fill/breather cap and fill with **Dexron III ATF only** to fill line on tank, Fig 18. The capacity of the tank is 10 liters or approximately 12 quarts.
Note: If fill/breather cap is lost or missing replace with original equipment replacement part.

IMPORTANT DO NOT substitute a different type of cap or plug.

Step 16: Electrical Service To Power Unit:
Note: It is recommended that the lift be operated on a dedicated electrical circuit.
A.) For 115V power unit - plug cord into extension cord rated for 15 amps hard or extra hard usage, Fig. 18.
B.) For 220V single phase - have a certified electrician wire the power unit according to Fig. 19.

IMPORTANT **Extension Cord (Not Provided) Used For 115V Power Unit Must Be Rated At 15 Amps Hard Usage Or Extra Hard Usage. Extension Cord Can Be Found In Most Home Improvement Stores. If Your LIft Is Going To Be Placed In A Damp Area, Or Exposed To Water Your Lift Should Be Connected To A GFCI-Ground Fault Circuit Interrupter (Not Provided).**

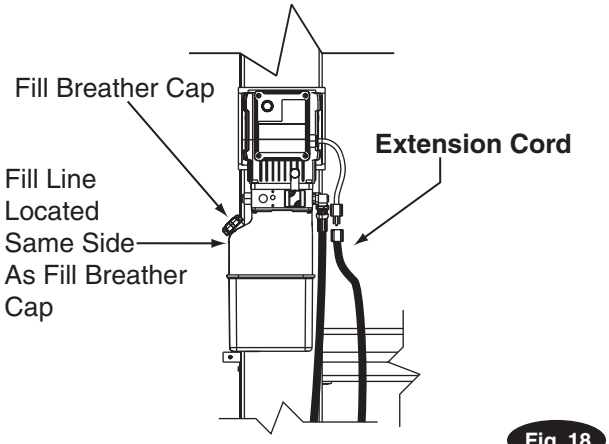


Fig. 18

SINGLE PHASE POWER UNIT WIRING	
MOTOR OPERATING DATA - SINGLE PHASE	
LINE VOLTAGE OF POWER CO.	RUNNING MOTOR VOLTAGE RANGE
208V - 230V 60HZ.	197V - 253V

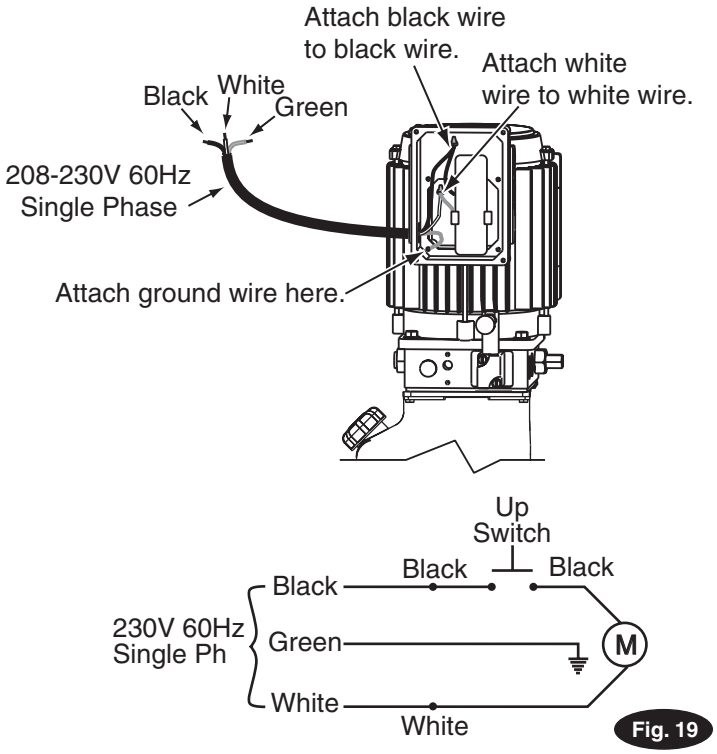
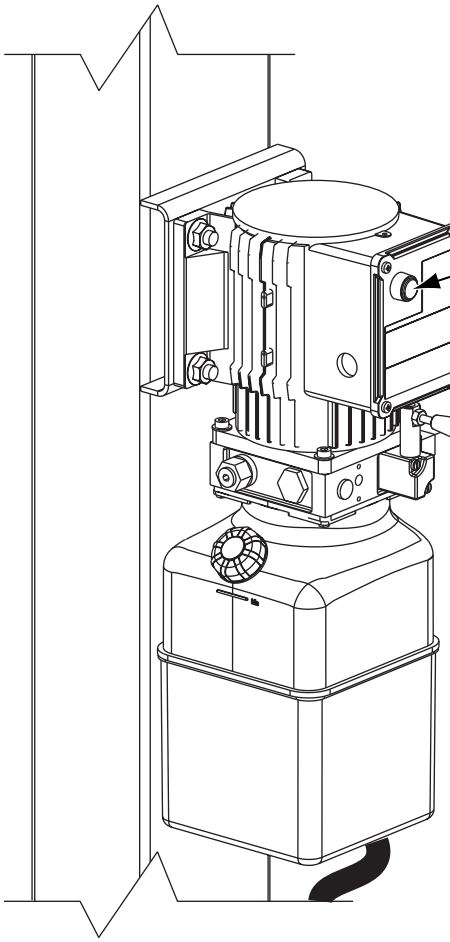


Fig. 19

IMPORTANT **Direct Wiring Should Be Done By A Certified Electrician. Following All National, State, And Local Electrical Codes**

Step 17: Raising Lift For Final Assembly Steps:
A.) Press the raise button on power unit, Fig. 20, and raise the runways up to a comfortable working height, approximately waist high.
B.) Push down on the lowering valve to lower the runways onto locking latches.
C.) **IMPORTANT** You have not yet completed the locking latch release linkage assembly at this point. Your lift will only lower onto the locking latches. Do not lift the runway too high until you complete step 18.

IMPORTANT Always have everyone in the area move away from the lift when it is in operation and observe "Pinch Points" warning labels.



IMPORTANT Before Operating Lift, Read and Heed Instructions In Owner's Manual Along With All Safety, Caution, And Warning Labels.

ATTENTION!!! You CAN NOT Fully Lower Your Lift Until You Complete Step 18! Only Raise Runways To A Comfortable Working Height!

Fig. 20

Step 18: Inserting Latch Bar, Attaching Lock Cams And Lock Lever:

A.) Insert latch bar through yoke assembly and through left runway latch bar support tube. Latch bar end with 2 sets of holes must come out of yoke assembly near left front column (power unit column), **Step A** of Fig. 21.

B.) Attach (1) lock cam to latch bar end extending from yoke assembly near left rear column, **Step B** of Fig. 21.

C.) Attach latch rods, **Step C** of Fig. 21.

D.) Attach (1) lock cam to other end of latch bar extending from the yoke assembly near the left front column (power unit column). Cam is attached in set of holes nearest yoke. Attach latch rods, **Step D** of Fig. 21.

E.) Attach ball knob to lock lever and insert lock lever into latch bar. Insert quick-release pin through latch rod and lock lever, **Step E** of Fig. 21. **Note** lock lever has two holes. Quick-release pin can be placed in either hole according to users height preference.

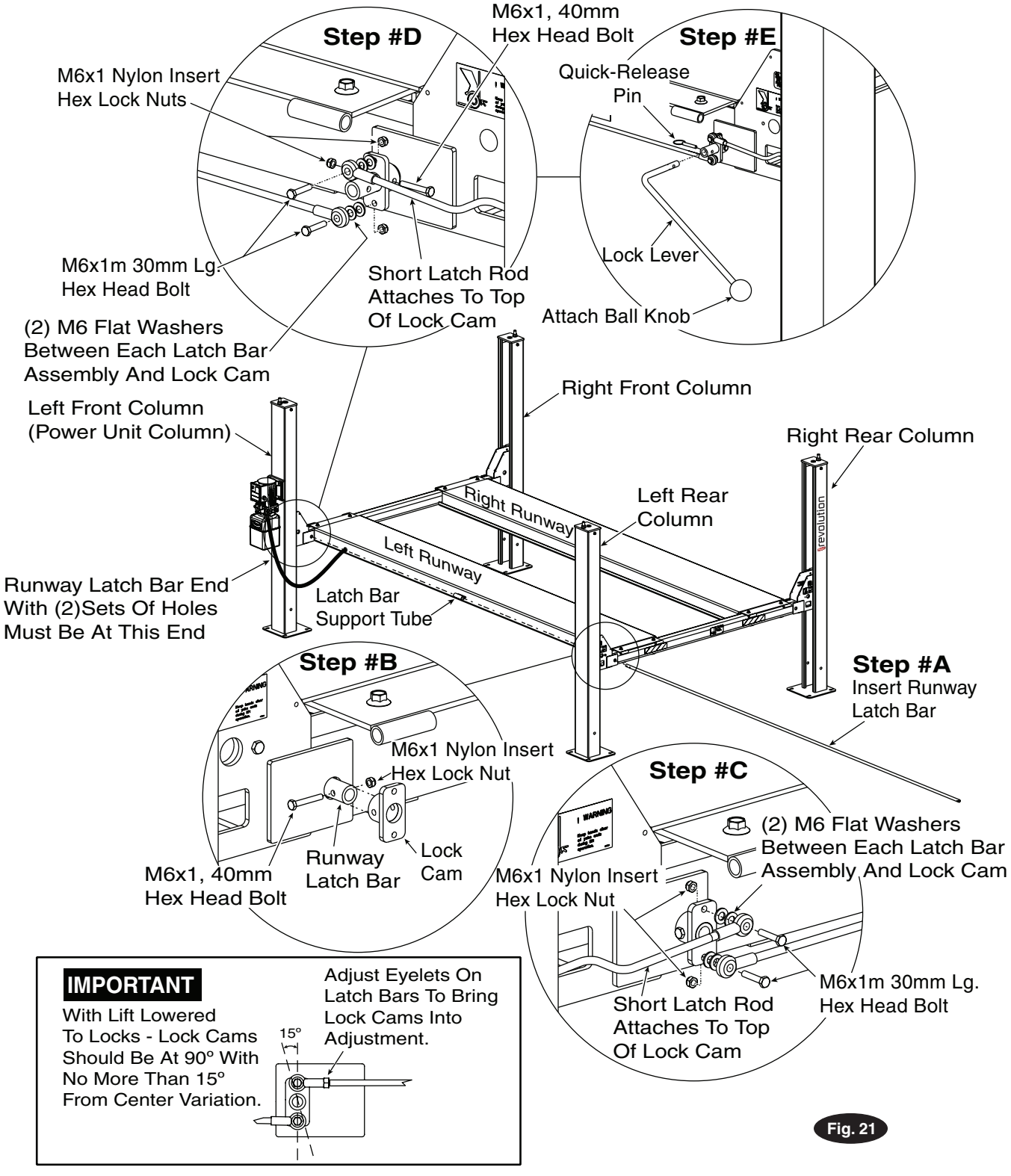


Fig. 21

Step 19: Testing Your Lift:
A.) Push button on power unit to raise your lift, Fig. 22.
B.) Pulling up on lock lever will release locking latches, Fig. 22.
C.) Push down on the lowering valve to lower lift, Fig. 22.

Note: Without pulling up on the lock lever the lift will only lower onto the locking latches. Any time you lower the lift you will have to raise your lift off of the locking latches, (approximately 1 inch), and pull up on the lock lever to allow the locking latches to clear the slots in the latch bars. Releasing the lock lever will re-engage the locks. The lift will stop in the next locking position unless you are below the lowest slots in the latch bars. After you clear the lowest slots in the latch bars the lock lever may be released and the lift will completely lower the lift to the ground.

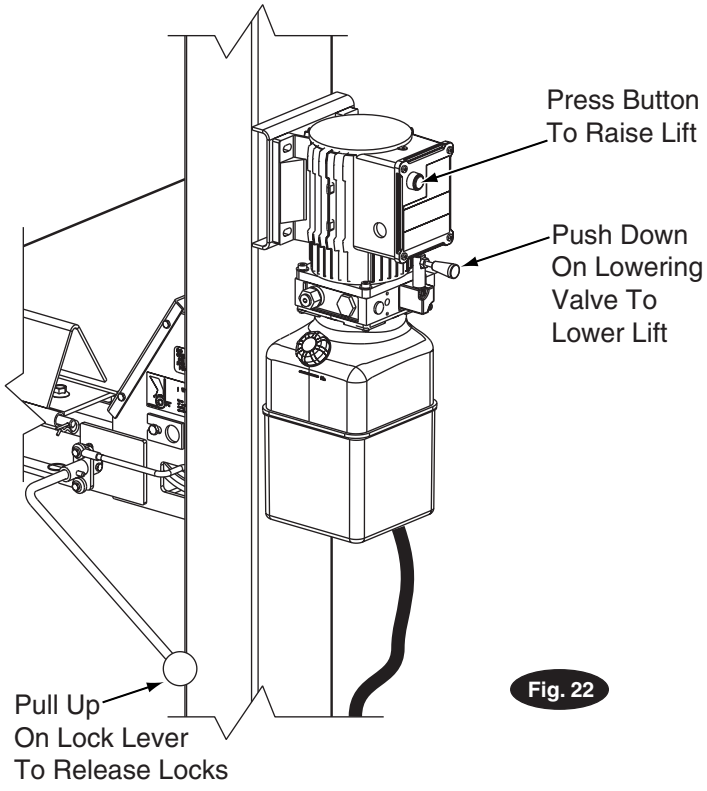


Fig. 22

Step 20: Installing Yoke End Covers:
A.) Raise or lower your lift to a comfortable working height remembering to lower the lift onto the locking latches.
B.) Install yoke end covers as in Fig. 23.

Step 21: Installing Approach Ramps:
A.) Place holes in approach ramps over bolts at runway ends and align runway hinge section on runway with hinge section under approach ramps, Fig. 24.
B.) Insert ramp/stop pins through hinge sections.
C.) Insert hair cotter pins in ends of ramp/stop pins.

Note: Approach ramps install at either end - user preference.

Step: 22: Installing Stop Ramps:
A.) Install wheel stops at opposite end of Approach ramps, Fig. 25.

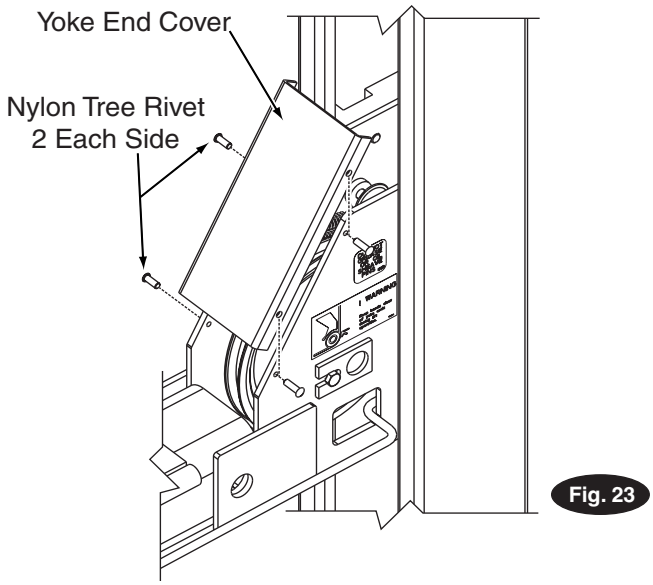


Fig. 23

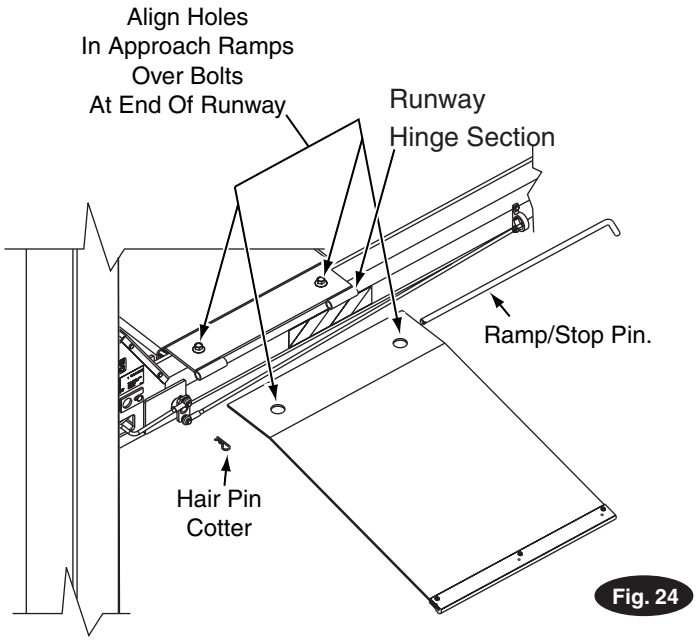


Fig. 24

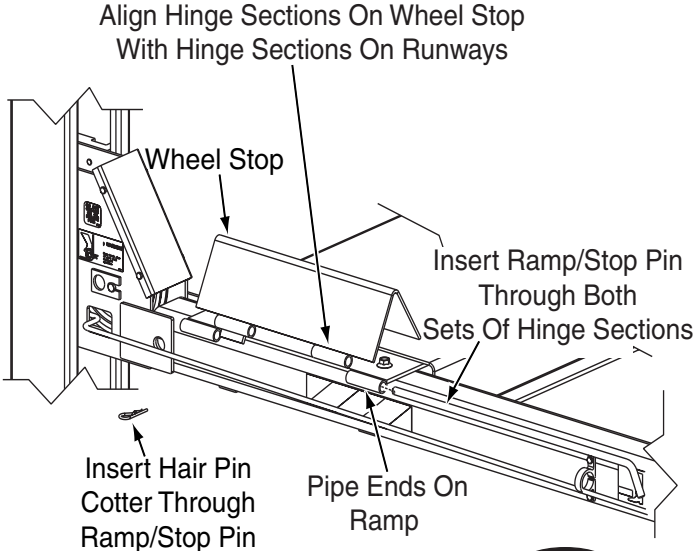


Fig. 25

Step: 23: Attaching Bottom Of Runways To Yoke Assemblies:
A.) Insert (4) M10 x 1.5 16mm Lg. HHCS (2) at each end of left runway through brackets on yoke assemblies and through the holes in left runway. Tighten until brackets touch bottom on left runway, Fig. 26.
B.) Assemble (4) M10 x 1.5, 30mm HHCS and (4) M10 nylon lock nut (2) at each end of right runway. Tighten until brackets touch bottom of right runway.

NOTE: You may have to loosen top runway bolts to allow alignment of the bottom bolts. Make sure to tighten all runway bolts after you have the bottom bolts are in place.

Step: 24: Leveling your lift:
A.) Level the latch bars first. Make sure the locking latches are engaged in the locks.
B.) Start at the right front column and loosen jam nut and adjust your latch bar until there is 1/2 inch of thread is exposed out of the top of the nut on top of the column, Fig 27. Retighten jam nut.
C.) Using a 4 ft. level adjust the rest of the latch bars until runways are level. Exposed threads on the rest of the latch bars may vary depending how level the surface is where your lift is located.
D.) Adjust your cables next starting at the left rear column. Lower the lift below the last slot in the latch bars so that the runways are only being supported by they cables.
E.) Adjust the left rear cable to expose 1/4 inch of the cable out of the top of the nut, Fig 27.
F.) Using the 4 ft. level adjust the rest of the cables until runways are level. Exposed threads on cable studs may vary on the rest of the columns.

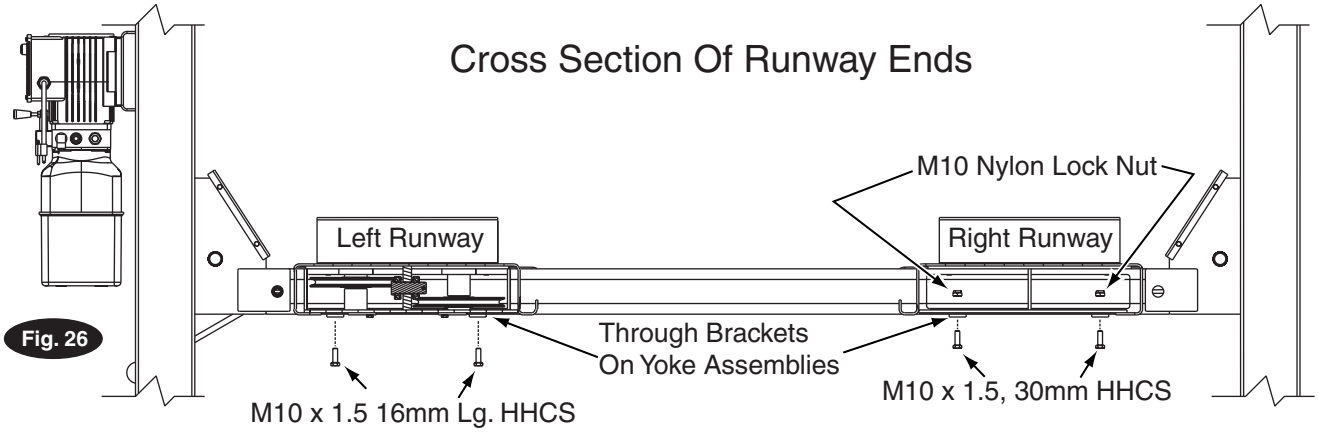
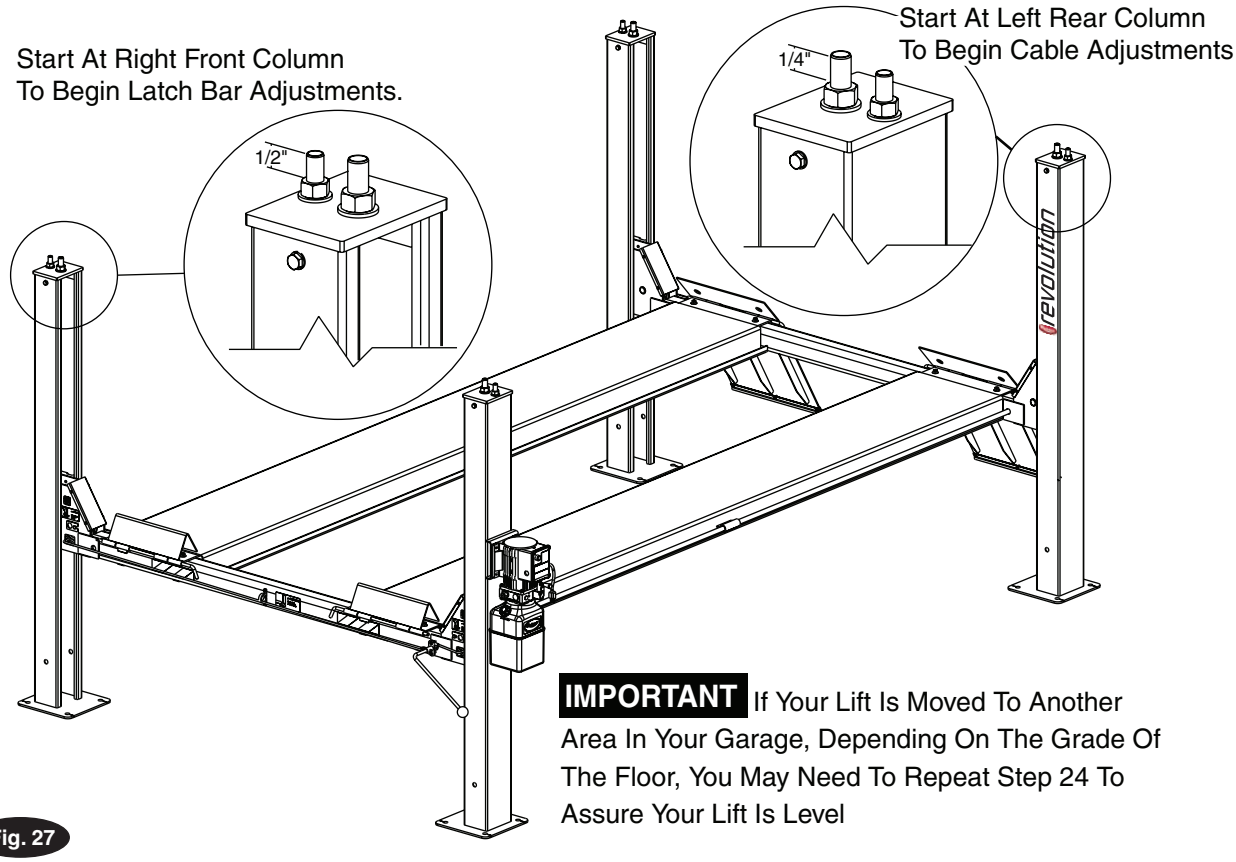


Fig. 26



IMPORTANT If Your Lift Is Moved To Another Area In Your Garage, Depending On The Grade Of The Floor, You May Need To Repeat Step 24 To Assure Your Lift Is Level

Fig. 27

Step: 25: Installing Cylinder/Cable Cover:
A.) You will be working on the underside of the left runway. Raise lift to convenient height then lower to latches.
B.) Slide cylinder cover into underside of left runway as shown in Fig. 28 and 29. You will need to bow cover slightly to get it to pop into place, Fig. 29. Fig. 30 shows underside of runway with cover in place.

IMPORTANT **Before lifting any vehicle read the owners manual!**

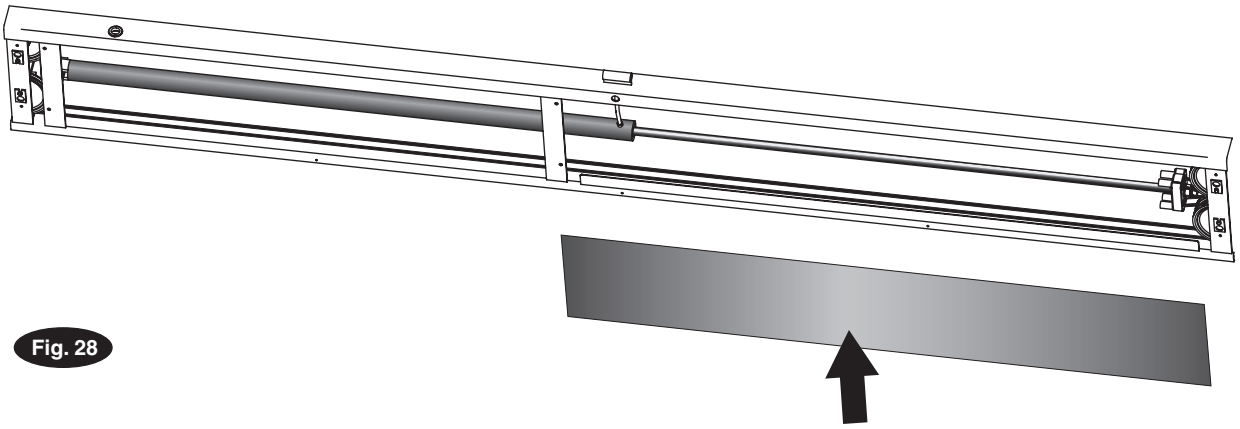


Fig. 28

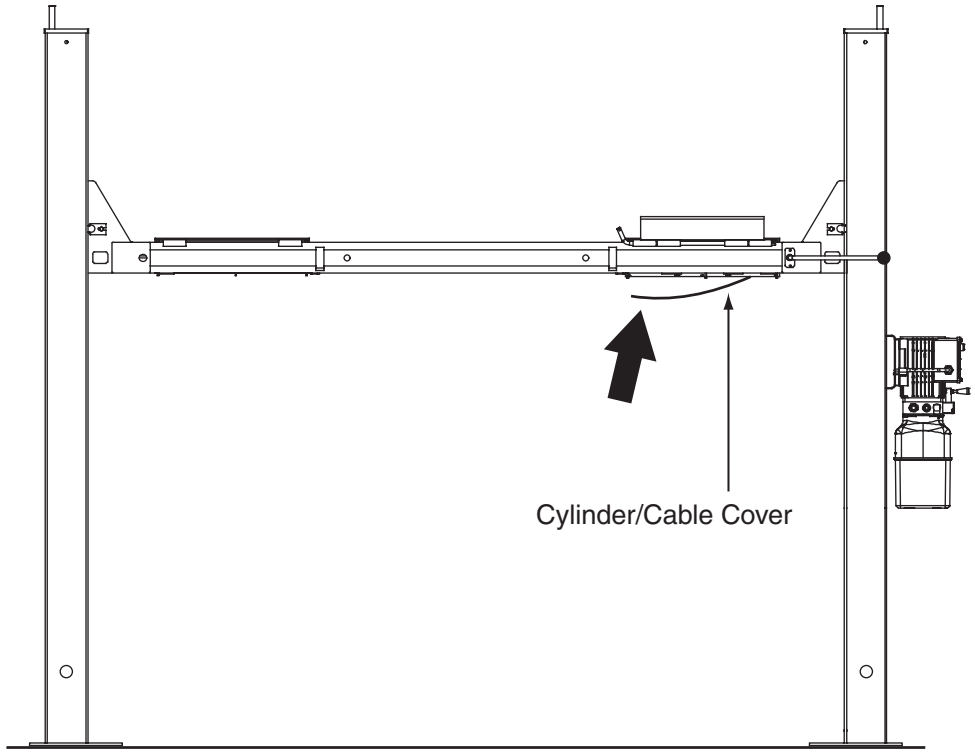


Fig. 29

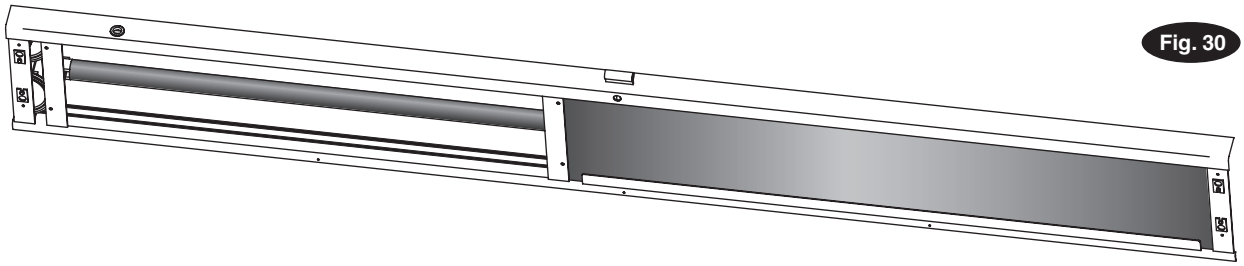


Fig. 30

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