



Lift Guide

Safety - Installation - Operation - Maintenance

C10A

2 Post Asymmetric Overhead Single Point Manual
Release Lifting Capacity 10,000 lbs. Car Lift



IMPORTANT NOTE:

1. This equipment should not be installed, operated or repaired without first reading instructions.
2. Electricity should be hooked up by a certified electrician.
3. Do NOT use equipment beyond its rated capacity.

Safety Instructions

1. This lift is designed for lifting vehicles. Any other use may result in damage of the lift or injury to personnel.
2. Only those who have been properly trained should operate the lift.
3. If lift is being used for outdoor purposes, be sure to cover electrical components from the elements.
4. Do not install lift on any surface other than concrete that is at least 6" thick and has set for at least 30 days.
5. Do not move away from controls while lift is in motion.
6. Keep hands and feet away from any moving parts, keep feet clear of lowering lift.
7. Do not wear any loose clothing that could be caught in moving parts.
8. Keep area around lift clean to avoid incidents.
9. Always ensure the safety latches are operational before any attempt to work near or under the vehicle.
10. Ensure regular maintenance is completed. If anything abnormal occurs, stop using lift and immediately contact our dealers for help.
11. The lift is designed to lift the entire body of vehicles with weight within the lifting capacity.
12. Do not rock vehicle while on lift or remove heavy components that may cause weight shift as vehicle could fall.
13. Do not modify any part of the lift without manufacturers advice.
14. If lift is not in use, lower to the lowest position and disconnect power.
15. If the lift will be left unused for a long period of time, it is recommended that the user disconnects power, empties the oil tank, and lubricates any moving parts with hydraulic oil.

WARNING:

1. The warning, cautions and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by operator.
2. ALWAYS ensure the mechanical safety locks are engaged. Never remove safety related components from the lift. Do not use if safety related components are damaged or missing.
3. Failure to correctly install, operate, or any improper modifications could result in injury or death of operators.

Safety Signs

Caution



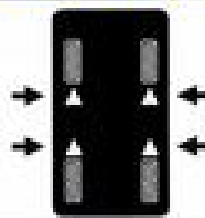
Lift should be used
by a trained
professional

Caution



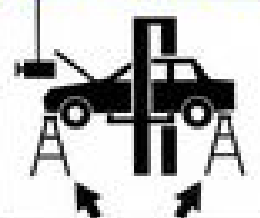
Only Authorized
Personnel around the
lift

Caution



Lift vehicle at the
manufacturer's
points

Caution



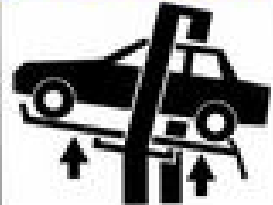
Always use safety stands
when removing/installing
heavy components

Caution



Use Height extenders
when necessary to
ensure good contact

Caution



Auxiliary adaptors
may reduce load
capacity

Warning



Clear area if vehicle is
in danger of falling

Warning



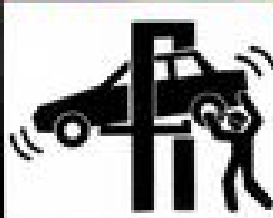
Position vehicle with
center of gravity right
between two adaptors

Warning



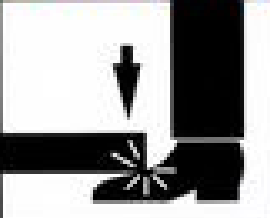
Remain clear of lift
when lowering or lifting
vehicle

Warning



Avoid excessive rocking
of vehicle while on lift

Warning



Keep feet away from
adaptor while lift is
lowering

Warning



Do not override self-
closing lift controls

Troubleshooting

ATTENTION: If the trouble cannot be fixed by yourself, please do not hesitate to contact us for help. We will offer our service at the earliest time we can. By the way, troubles can be judged and solved much faster if more details or pictures are be provided.

Motor not working	1. Check if the push button is damaged 2. Poor wire contact 3. Motor is broken or burned out 4. The limit switch is offline, poor or damaged 5. Check air switch 6. Check if the voltage is correct 7. Start switch burned 8. AC contractor burned 9. Check for blown fuse	1. Replace button 2. Check and connect wiring 3. Replace the motor 4. Connect the line, adjust or replace the limit switch 5. Turn off or replace the air switch 6. Correct power supply 7. Replace start switch 8. Replace the AC contractor 9. Replace the fuse
Abnormal noise	1. Friction marks inside the cylinder or main platform 2. Are there obstacles inside the column 3. Rated capacity is exceeded 4. Shortage or bad hydraulic oil	1. Lubricate oil inside the column 2. Clear internal obstacles 3. Operate within rated capacity 4. Top off / Change hydraulic oil, bleed unit after.
Motor runs but will not lift	1. Motor reverse rotation (single phase motor omitted) 2. The relief valve is loose or obstructed 3. Damaged gear pump 4. Insufficient hydraulic oil 5. Oil suction pipe loose 6. Shock valve loose or obstructed 7. Pressure valve pressure is too small 8. Pump station takes in air 9. Hydraulic oil suction hose is detached or broken 10. Check for oil leaks or damage to the hydraulic unit 11. Check that the correct operating procedure is being used 12. Check that the load is not above rated capacity	1. Correct wiring method 2. Adjust or clean the relief valve 3. Replace gear pump 4. Replenish oil 5. Tighten the suction pipe 6. Tighten or clean the buffer valve 7. Clockwise adjust the pressure valve (fine adjustment) 8. Unscrew the check valve on the power unit, and then start the motor until hydraulic oil flows out from the check valve, then tighten the check valve. 9. Install/replace the suction hose. 10. Replace unit 11. Bleed the hydraulic system 12. Limit the load to the rated capacity or less
Does not lower	1. Safety lock engaged 2. Other object inside the columns stops the carriage 3. The flow valve need to be adjusted 4. Check the electrical power is available at the down button and solenoid valve	1. Slightly raise the device and then pull the safety lock release cable 2. Check and remove the objects 3. Counterclockwise adjust the flow valve (fine adjustment) 4. Repair the electrical connections if possible, alternatively lower the lift in accordance with the manual descent procedure

Troubleshooting

Raising too slow	1. Oil filter plug 2. Air mixed in the oil pressure 3. Hydraulic oil get hot (above 45°) 4. Cylinder seal wear	1. Clean out or replace 2. Replenish hydraulic oil 3. Change the hydraulic oil 4. Replace the seal
Lowering too slow	1. Check the oil pipe for oil leaks 2. Poor cylinder seal 3. Bad or defective check valve seal, relief valve, manual unloading valve or solenoid unloading valve 4. Down throttle stuck, Obstruction 5. Dirty hydraulic oil 6. Oil tube is obstructed	1. Replace the oil pipe 2. Replace the seal 3. Decomposition, cleaning, exclusion or replacement 4. Clean out or replace 5. Change the hydraulic oil 6. Replace the oil tube
The steel cable is abraded	1. No grease when installation or out of lifetime	1. Replace the steel cable
Self lowering	1. Dump valve failure 2. Hydraulic oil leak 3. The valve body of the power unit has holes	1. Replace the dump valve 2. Check and repair 3. Replace the valve body
Raise without load, but won't with load	1. The voltage is too low 2. Objects in the dump valve 3. The Pressure valve pressure is too small 4. Overloaded	1. Install the voltage stabilizer 2. Remove objects from the dump valve 3. Increase the pressure properly (fine adjust the pressure valve) 4. Do not exceed rated capacity
Lift is not level	1. The cables are not balanced 2. Check if wire rope is partially loosened 3. Check if clip of wire rope is loosened	1. Balance cables by adjusting the cables length 2. Readjust the fixing bolts of the wire rope to ensure that the carriages are leveled 3. Tighten clips after adjustment
Carriage and arms do not synchronize during lowering	1. Check if the oil at the load head cover is sufficient 2. Check if air is mixed at the hydraulic oil	1. Top up the oil tank to the correct level 2. Bleed the air from the hydraulic unit
Hydraulic Oil leakage	1. Defective hydraulic hoses	1. Replace hydraulic hose
Safety lock does not operate during lifting and lowering	1. Check the connection of wire and connector 2. Check the operation of manual lever	1. Reconnect if necessary 2. Release manual lever

Maintenance

Easy and low cost routine maintenance can ensure the lift work normally and safely. Following are requirements for routine maintenance. Frequency of routine maintenance is determined by working condition and frequency. If done consistently, the lift will always be in a good working condition and minimize incidents.

Regular Lubrication

- Use high quality grease to regularly lubricate all moving parts of the lift

Daily checking items before operation:

- Daily check of safety lock system is very important – the discovery of device failure before action could save time and prevent great loss, injury or casualty.
- Before operation, judge whether the safety locks are engaged by sound.
- Check whether oil hose is well connected and whether it leaks or not.
- Check the connections of chain and steel cable and check the power unit.
- Check whether expansion bolts are firmly screwed.

Weekly checking items

- Check the flexibility of moving parts.
- Check the working conditions of safety parts.
- Check the amount of oil left in the oil tank. Oil level is high enough if the carriage can be raised to highest position. Otherwise, oil is insufficient.
- Check whether expansion bolts are firmly screwed.

Monthly checking items

- Check whether expansion bolts are firmly screwed.
- Check the tightness of the hydraulic system and screw joints firmly if it leaks.
- Check the lubrication and wear of the pins, wire rope pulleys, sliders, columns and related components, and replace them in time if any damage is found.
- Check the lubrication and abrasion circumstance of steel cable.
- Check hydraulic oil level, fill if necessary.
- Check the pump hose and cylinder for any leaking.
- Check the tension of the balance cables and check if there is anything broken.
- Check if the carriage on both sides are at the same level.

6 Month checking items

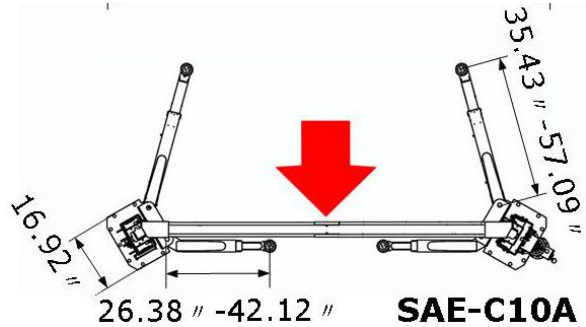
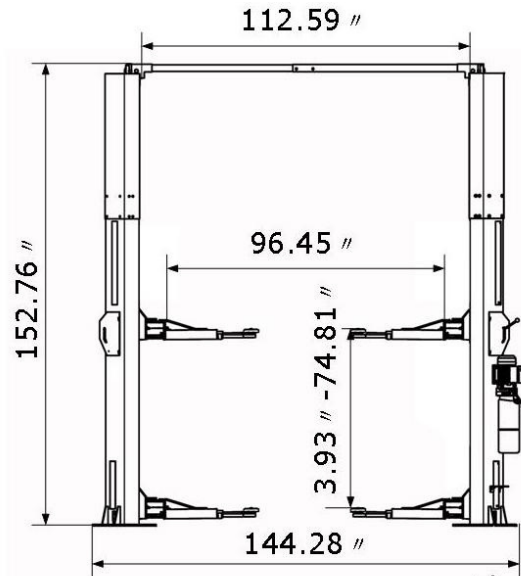
- Check the condition and aging of the hydraulic fluid. Unqualified hydraulic fluid is the main reason to cause valve failure and reduces the life of the gear pump.
- Check the noise variation of the motor and gear pump with normal operation

Yearly checking items

- Empty the oil tank and check the quality of hydraulic oil.
- Wash and clean the oil filter.

Lift Overview

This 2 Post Overhead Lift is an advanced piece of car maintenance equipment, mainly used for automotive repair and maintenance.



Lift Capacity	4500kg / 10000lbs
Overall Height	3880mm/152.76"
Overall Width	3665mm/144.28"
Maximum Lifting Height W/O Truck Adaptor	1900mm / 74.81"
Minimum Height	100mm / 3.93"
Lifting Time	55s
Outside Column to Outside Column Width	3431mm/135.08"
Inside Column Width	2860mm / 112.59"
Drive Through	2450mm/96.45"
Column Thickness of Steel	5.5mm / 0.217"
Carriage Thickness of Steel	4.75mm / 0.187"
Arms Thickness of Steel	5.5mm / 0.217"
Cable Diameter	8.2mm / 0.323"
Voltage	220v
Power	2.2kw / 3hp
Breaker	30A
Hydraulic Fluid Requirment	3-5 Gallons AW32/AW46
Equipment Weight	650kg / 1433lbs

Preparation

This 2 Post Overhead Lift is the most common equipment for repairing cars. Its installation is not only related to the maintenance efficiency but also to personal safety of the maintenance technicians. Therefore, the installation must be completed by certified installers according to the User Manual, and in accordance with installation regulations. It is recommended to use manufacturer supplied anchor bolts.

Foundation

The lift must be installed on a level concrete foundation with a minimum concrete thickness of 6" (7.87" is recommended) and a strength of 3000 psi or more. The newly poured concrete needs to be dried thoroughly before installation. (Fig 2).

***Warning*:** The size and concrete parameters of the foundation are the minimum strength and foundation depth parameters of the installation. The user needs to adjust the thickness and floor space of the foundation according to the maximum weight. It can also be done at the dealer's suggestion.

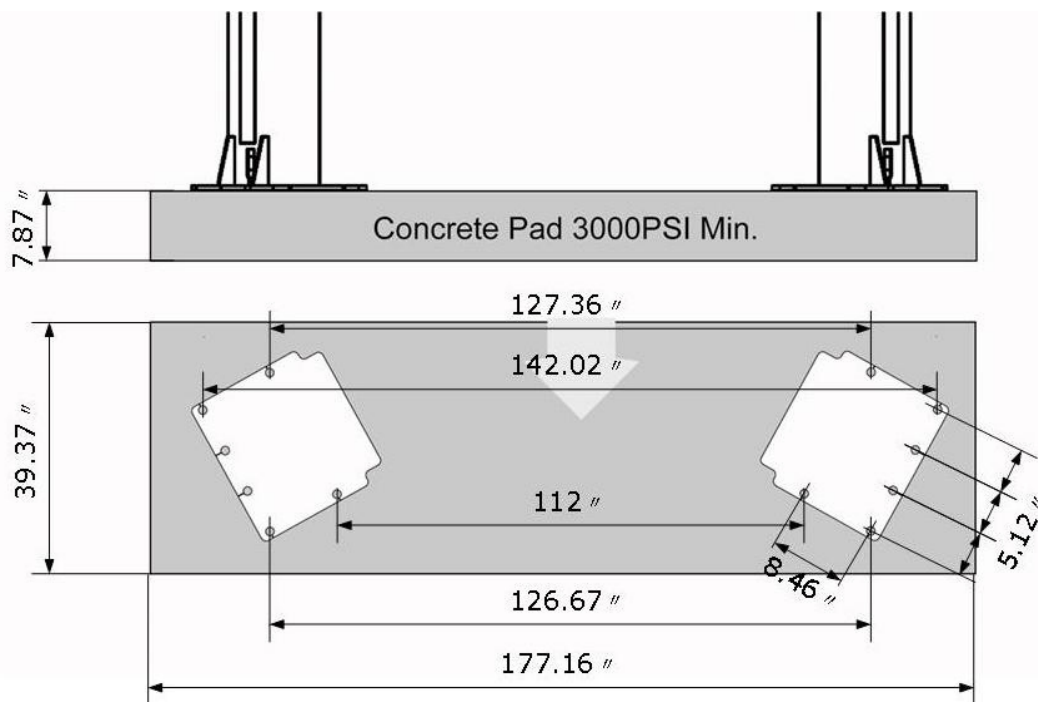


Fig 2 Foundation Requirement

Tools Required

Hammer, Socket Wrench Set, Hex Wrench Set, Adjustable Wrench, Screwdriver, Measuring Tape(16'+), Long-Nose Plier, Circlip Pliers, Electric Rotary Hammer, Drill(3/4"), Safety Glasses, Work Gloves, Safety Helmet, Forklift/Crane or something similar.

Installation

Assemble Columns

Assemble main column & extension column, and then stand up the 2 columns (the column with the power unit base plate is the main column and the other one is the vice column)

(Fig 3)

Note: Don't drill anchor bolt holes or install anchor bolts now.

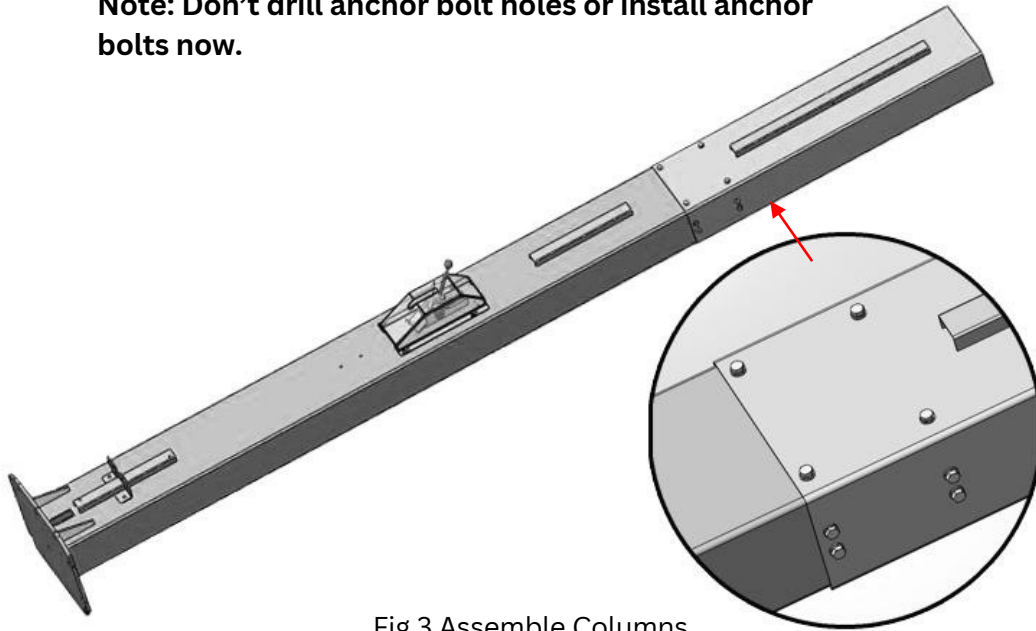


Fig 3 Assemble Columns

Assemble overhead top beam

NOTE: The bolts run from inside of the column and then fasten the nuts from outside of the column.

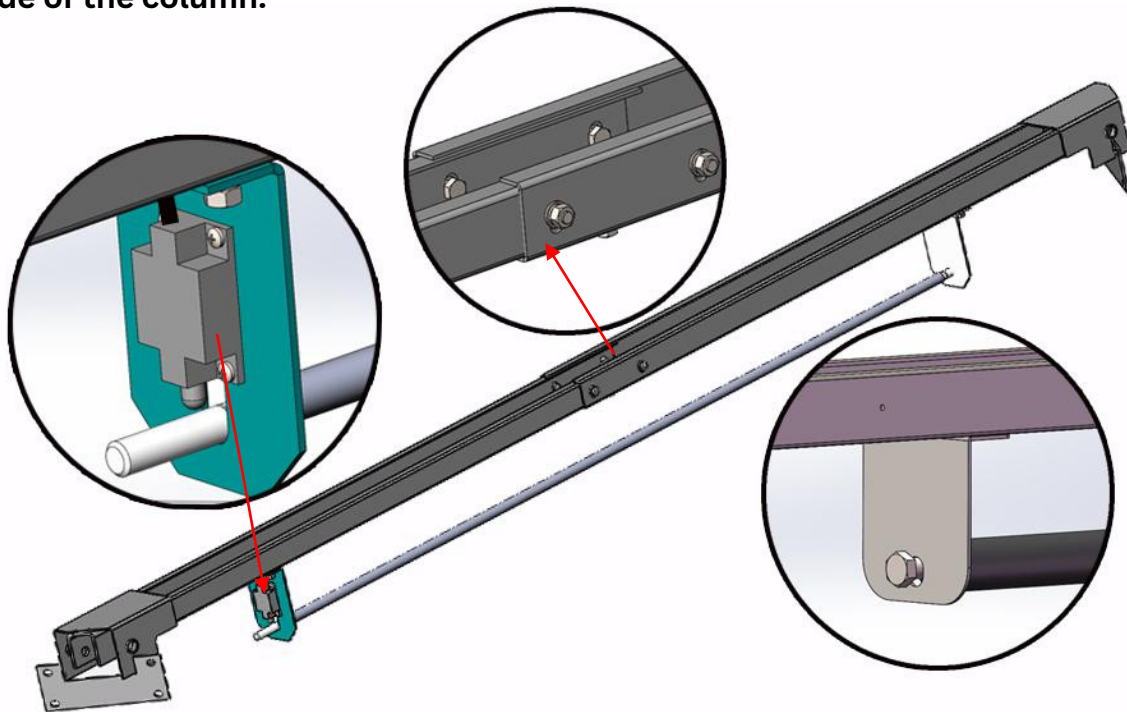


Fig 4 Assemble overhead top beam

Installation

Position Columns

Check if the columns are vertical to the ground with level, insert thin shims (come with package) to adjust when necessary. (Fig 5)

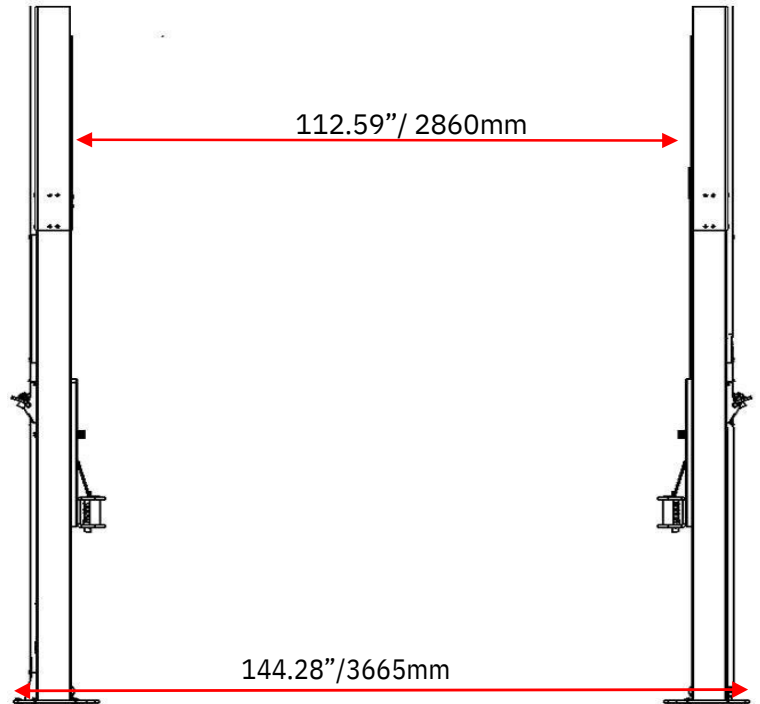


Fig 5 Position Columns

Install overhead top beam

Assemble the overhead beam on the ground as shown in 2.2.2, and then install as pictured below.(Fig 6)

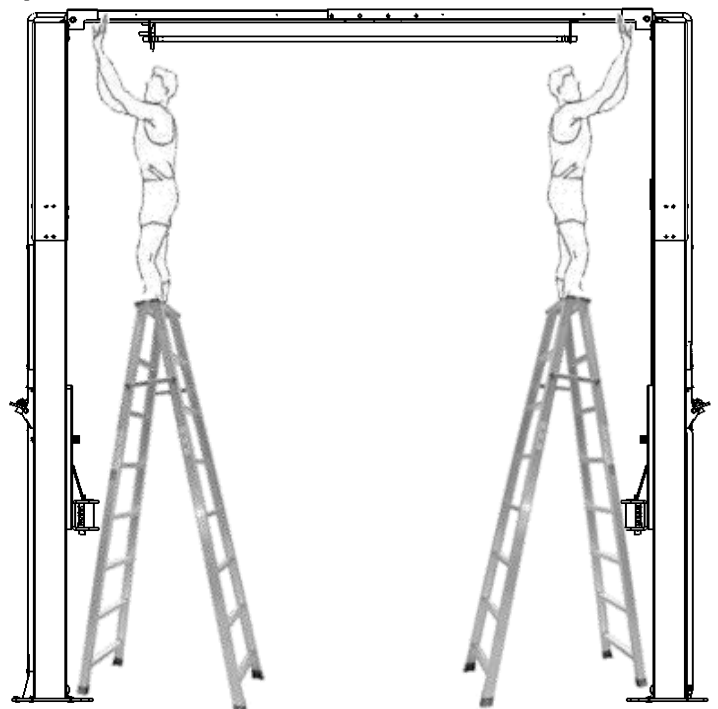


Fig 6 Install overhead top beams

Installation

Adjust Carriage

Raise the carriage to the 1st locking position located at the bottom of the column(Fig 7).

Note: You can hear a “click” once locked (the 1st locking position is about 11.8” from the ground)

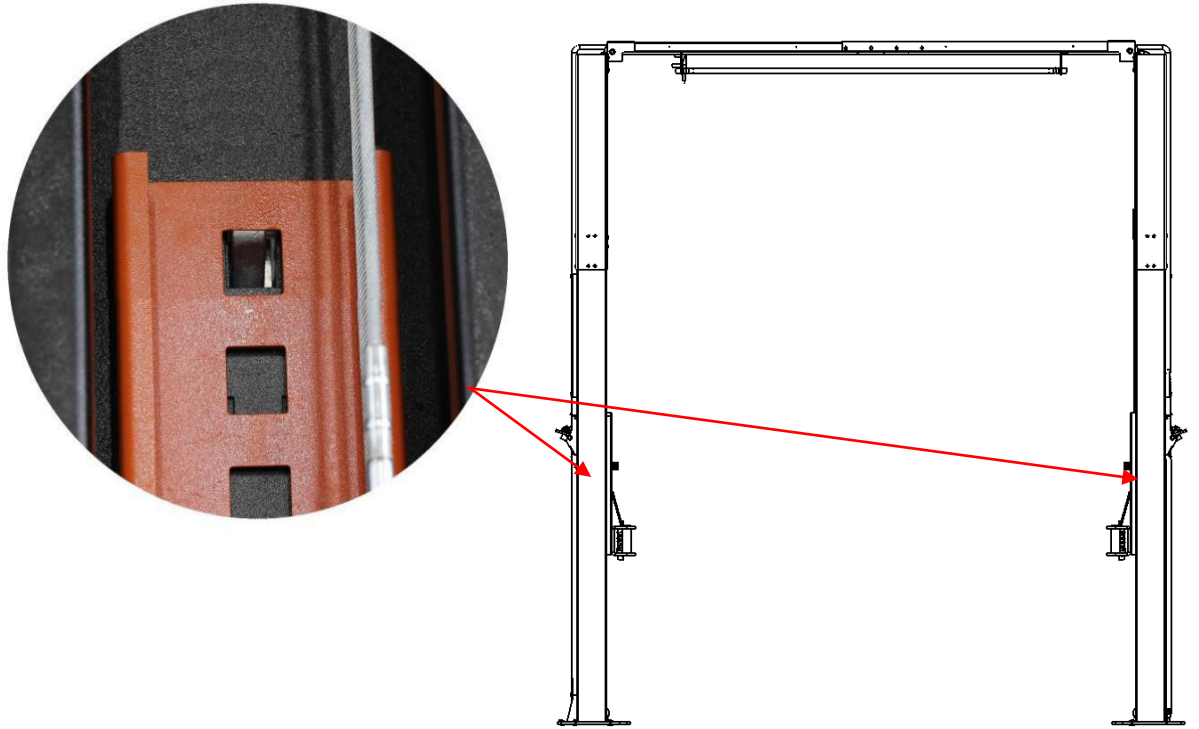


Fig 7 Carriage Position

Install Cables (2 Cables in total)

Red & blue colors in this figure are showing how to route the 2 cables (Fig 8)

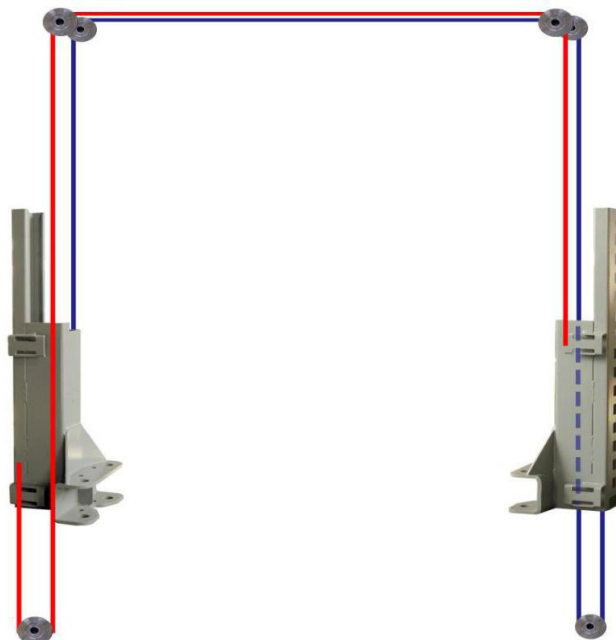


Fig 8 Cable Routing Diagram

Installation

Install Hydraulic Hose (2 hoses in total)

Connect the longer hose in between the 2 cylinders, then connect the short hose in between the cylinder and the power unit. Please hand tighten to avoid thread damage, then use hand wrench to fasten completely. (Fig 9)

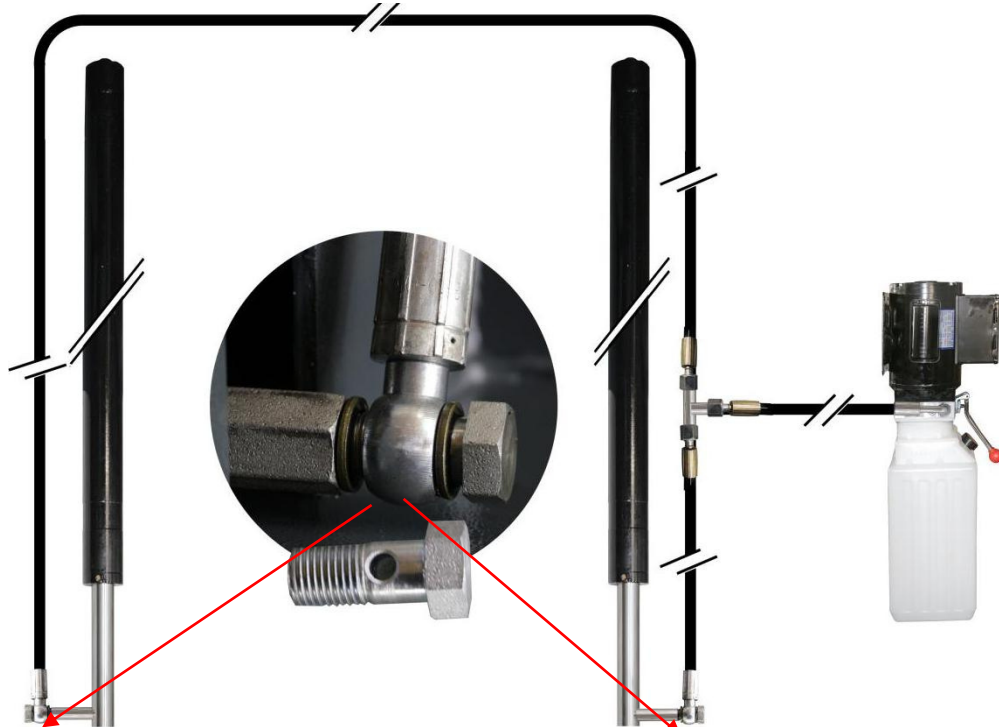


Fig 9 Hydraulic Hose Diagram

Install Safety Lock Release Cable

1. The safety lock has been pre-installed.
2. Install safety lock release cable to connect the safety lock on the main column and vice column. (Fig 10)
3. Install safety lock cover.

NOTE: Press the single point lock release lever on the main column to check if this lever can release the mechanisms in both columns at the same time. Adjust the safety lock release cable adjustment screw if necessary until the lever can release the mechanisms in both columns at the same time.

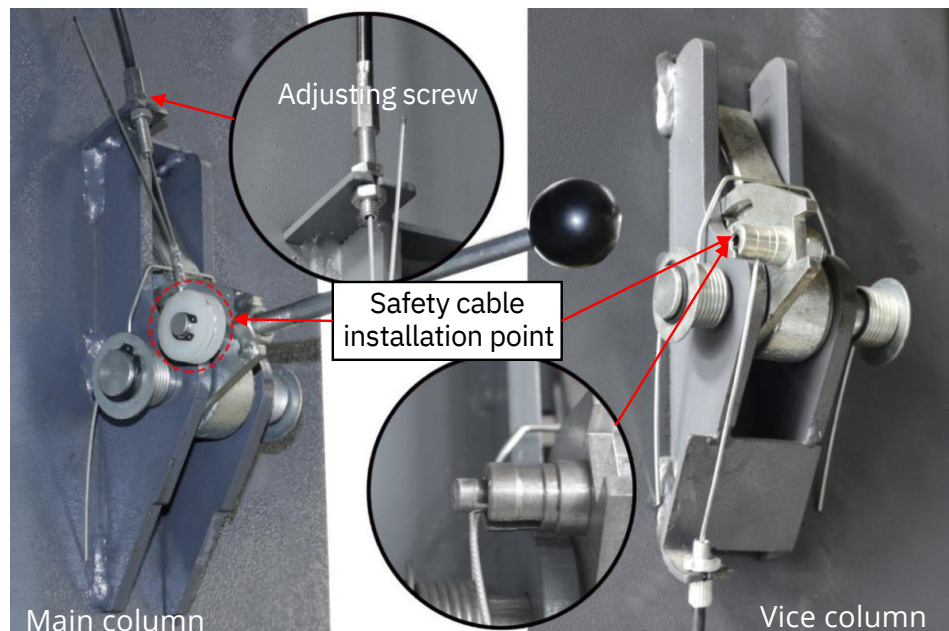


Fig 10 Safety lock release cable installation diagram

Installation

Install Power Unit

Install power unit & motor mounting plate on the main column with M8 screws (Fig 11).



Fig 11 Power Unit Installation Diagram

Safety Lock Release Cable, Hose & Top Limiter Switch Wire Protection cover.

Safety Lock Release Cable & Hose & Top Limiter Switch Wire Position (Fig 12)

Note: Don't cross safety lock release cable, hose & top limiter switch wires

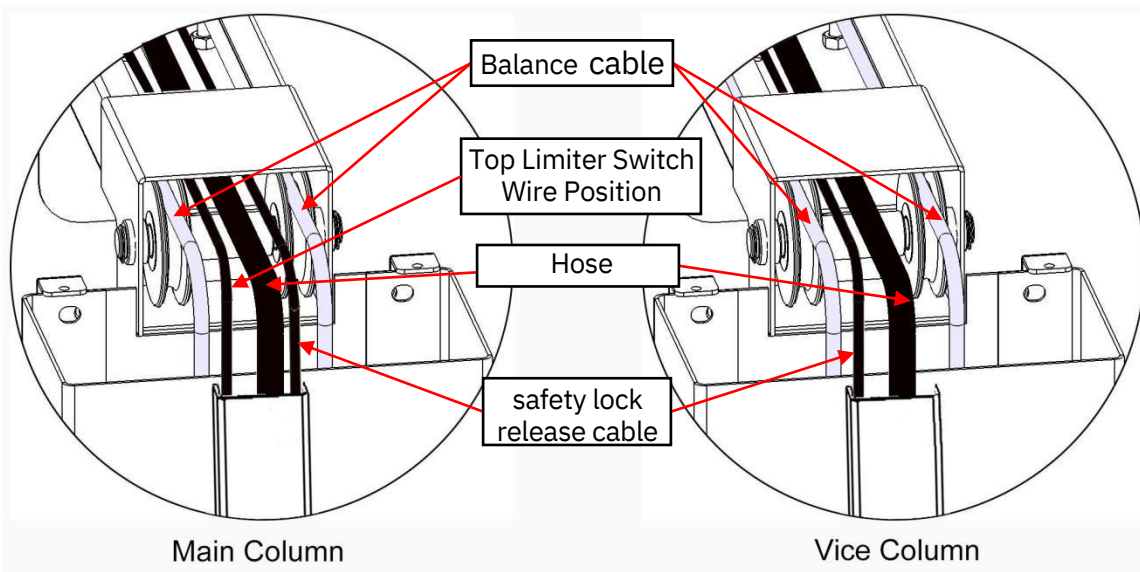


Fig 12 Safety Lock Release Cable & Hose & Top Limiter Switch Wire Position

Installation

Install protection cover

NOTE: The protection cover on the extension column for safety lock release cable, hose & top limiter switch has already been welded on, and you only need to install the protection cover on the main column.

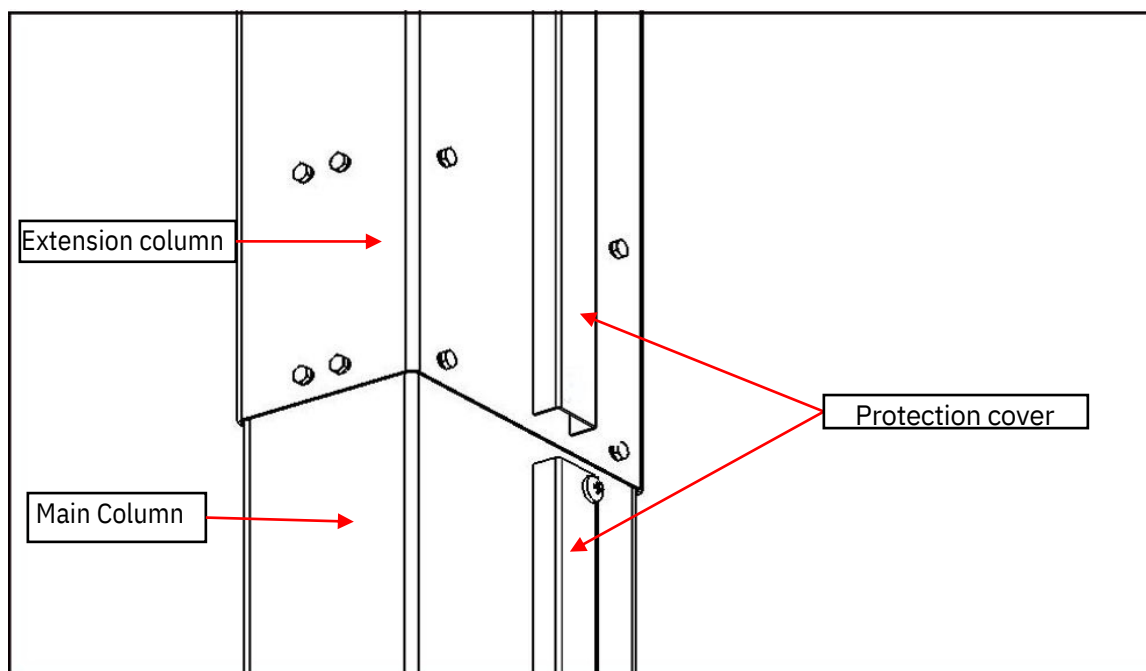


FIG 13 protection cover

Install truck adapters holder

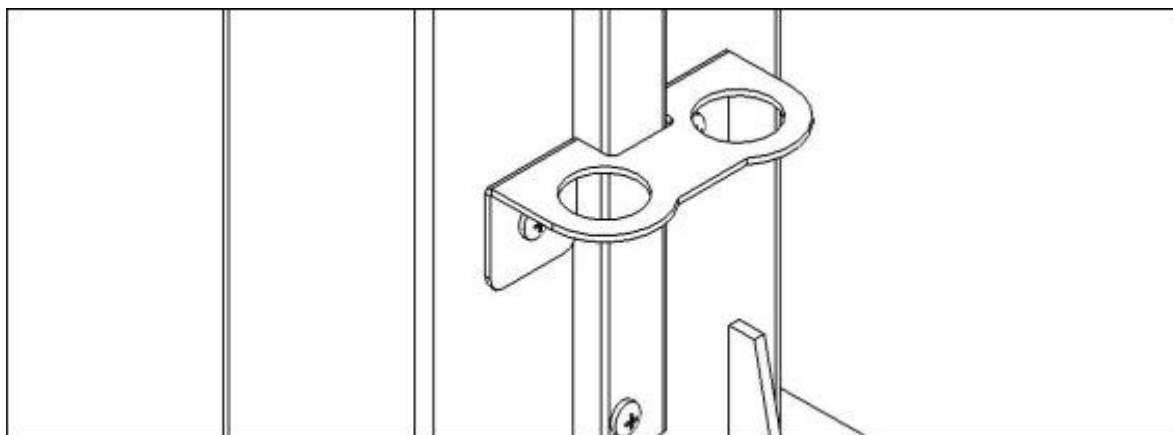


Fig 14 Place of the truck adapters

Installation

Install Anchor Bolts (Fig 15)

1. Adjust the distance between 2 columns to required dimensions (Fig 1).
 2. Adjust the opening direction of the two columns in a straight line (visible).
 3. Install Anchor Bolts (Suggest to use 3/4" Drill)
- Note: Don't fasten/tighten nuts now in case any adjustment needed.
4. Adjust the verticality of the columns (visible) and use U-shape washer(comes with package) if necessary.
 5. Tighten anchor bolts nuts in diagonal order (Foot Pounds of Torque: 90+, we suggest to use a hand wrench to tighten nuts.)

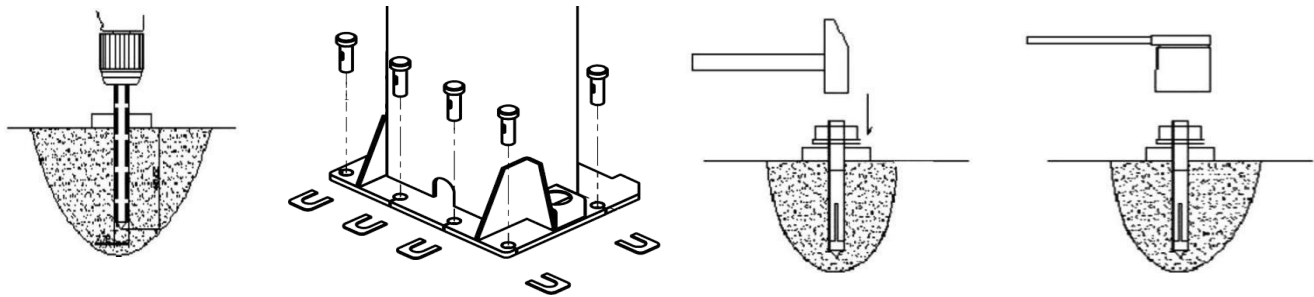


Fig 15 Anchor Bolts Installation Diagram

Install Arms and Pulling Rod

Segment arm installation location

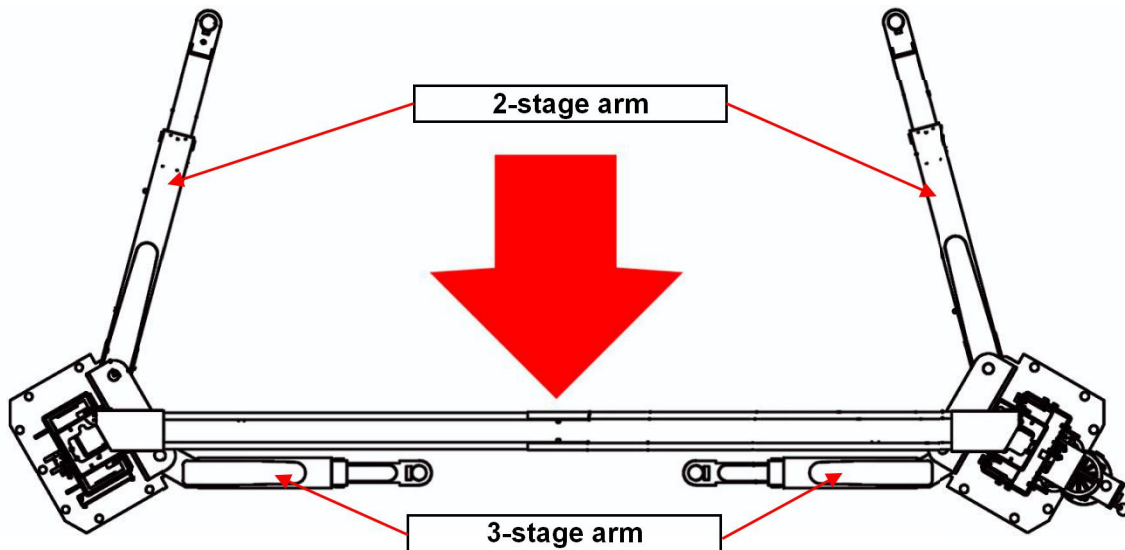


Fig 16 Arm installation location

Installation

Install arms and pulling rod (Fig 17 and Fig 18).

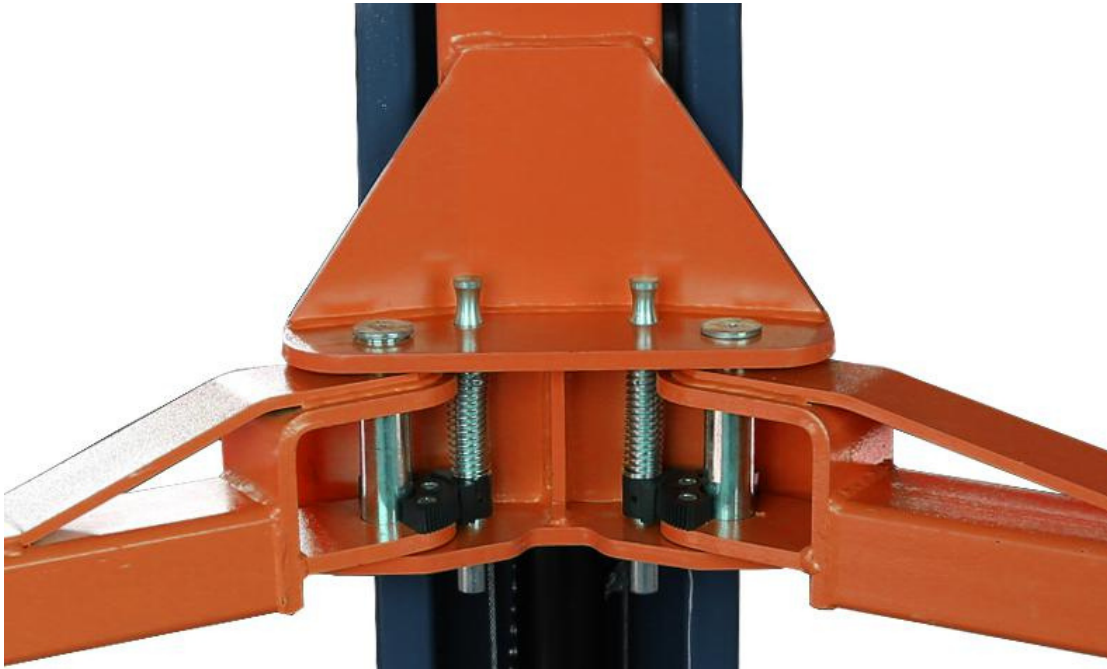


Fig 17 Arm Installation Diagram

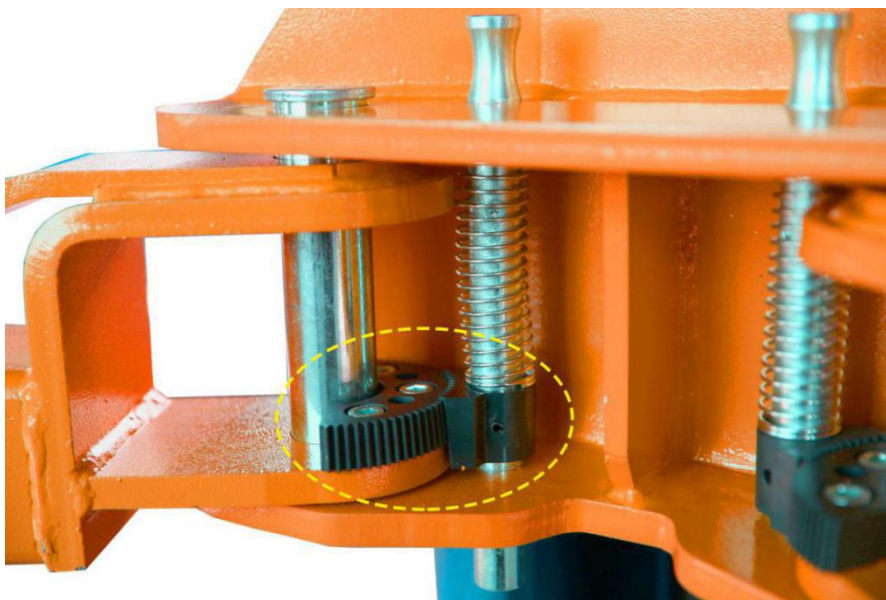


Fig 18 Pulling Rod Installation Diagram

Before Starting

Mechanical Installation Check

1. Check anchor bolts, nuts, fittings, etc have been installed properly.
2. Check if all moving parts move freely.
3. Make sure inside of the columns is clean with no other objects.
4. Supply grease between slide blocks and columns, cables, and pulleys.
5. Check if the arm lock is locked while in the raising process, and adjust lock if necessary.

Note: Loosen the screw to adjust when necessary(Fig 18).

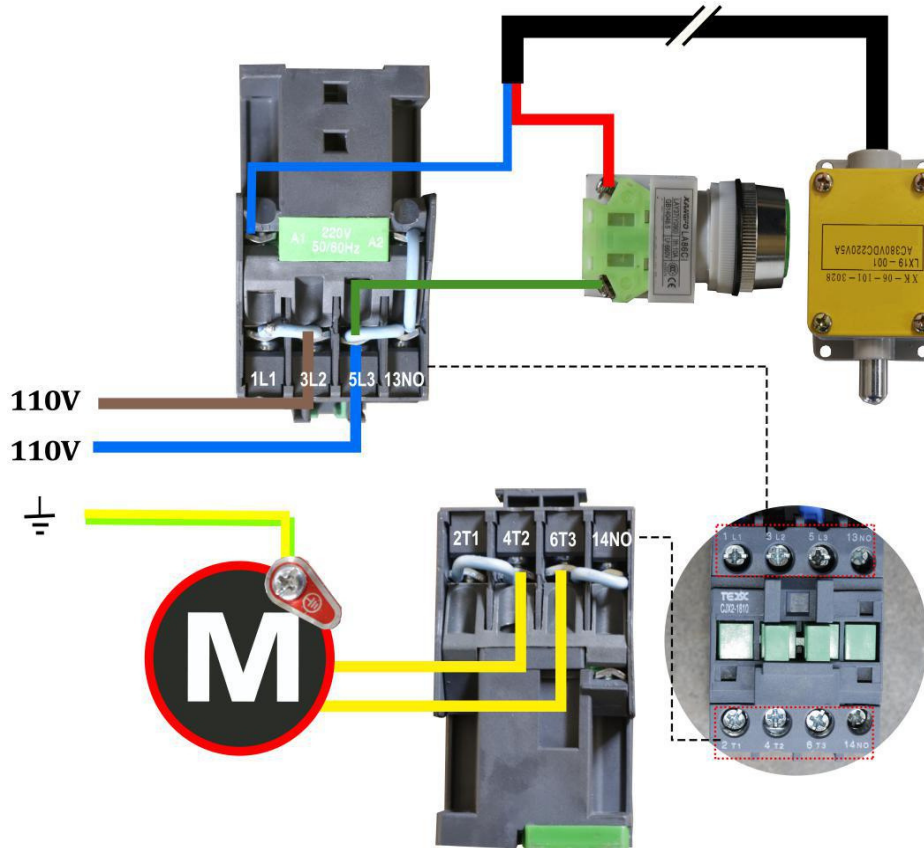


Fig 19 Power Unit Wiring Diagram (Voltage: 220V)

Electrical Hook Up Check

Make sure all wiring are same as below circuit diagram (Fig 19).

Hydraulic System Testing

1. Add about 2.5 gallons of hydraulic oil to the hydraulic fluid reservoir, AW32 during winter time/cold weather, and AW46 during summer time/hot weather.
2. Make sure there is no oil leak.
3. Repeatedly raise and lower the lift to bleed trapped air from the cylinders.
4. Power unit testing (Fig 20)

Installation

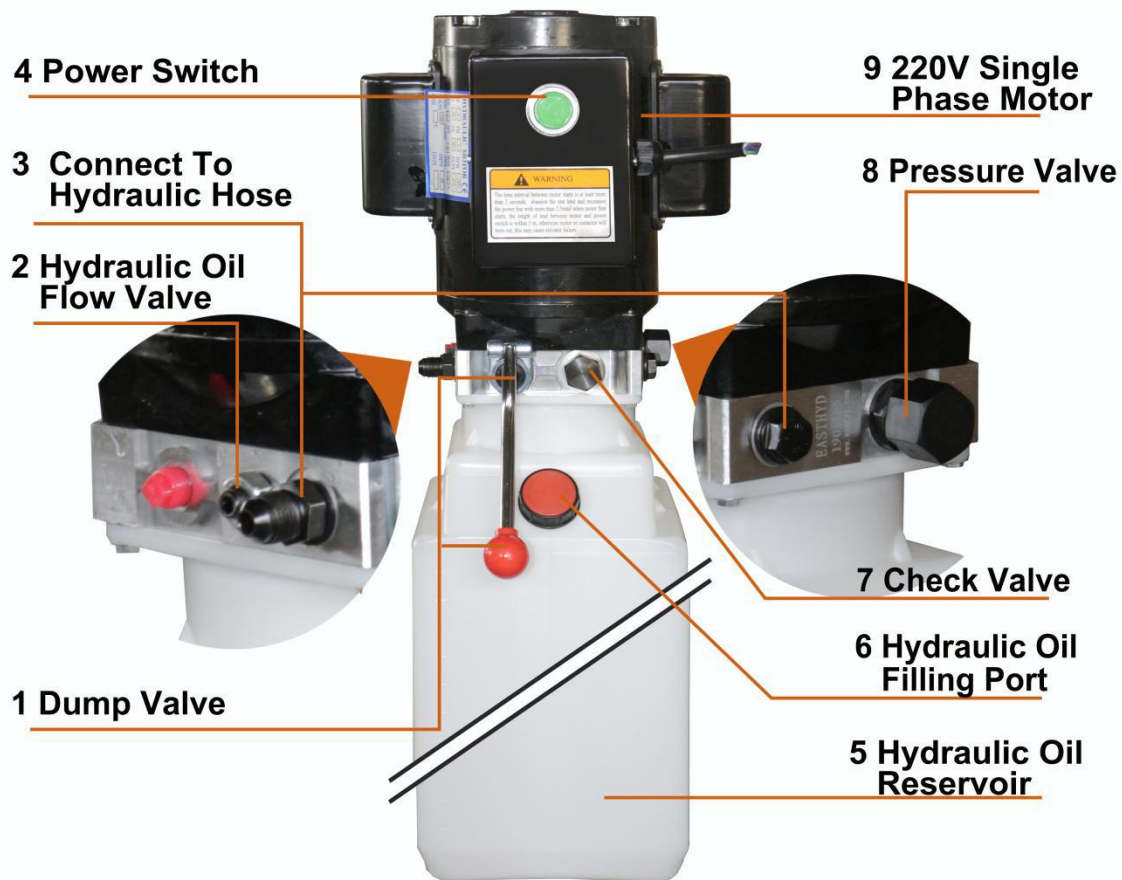


Fig 20 Power Unit Diagram

****Important Information****

8 Pressure Valve: clockwise adjustment increases pressure to make the power unit has more power, counterclockwise adjustment decreases pressure to make the power unit have less power.

2 Hydraulic Oil Flow Valve: clockwise adjustment to speed up, counterclockwise adjustment to slow down.

Operation and Load Test

Operation and Use

- Place the lifting arm at the support point specified by the vehicle and adjust the rubber tray to the same height.
- Check the position of the rubber tray under the vehicle chassis before each single raising or when vehicle is lowered to the ground and need to raise again.

Raising/Lifting

- Press the power switch until the vehicle reaches desired height.
Note: When the vehicle is raised, the safety lock automatically engages.
- During raising/lifting, check whether the arm lock has been locked. It can be visually checked when it is raised to a certain height (stop and check).

*** Danger* : Unlocked arms can cause the vehicle to fall from the lift.**

Stopping

- After raising to desired height, press the lower lever and the lift will automatically lower to a safe position, the safety lock will be engaged and the lift will be locked.

Lowering

The safety lock must be released before lowering.

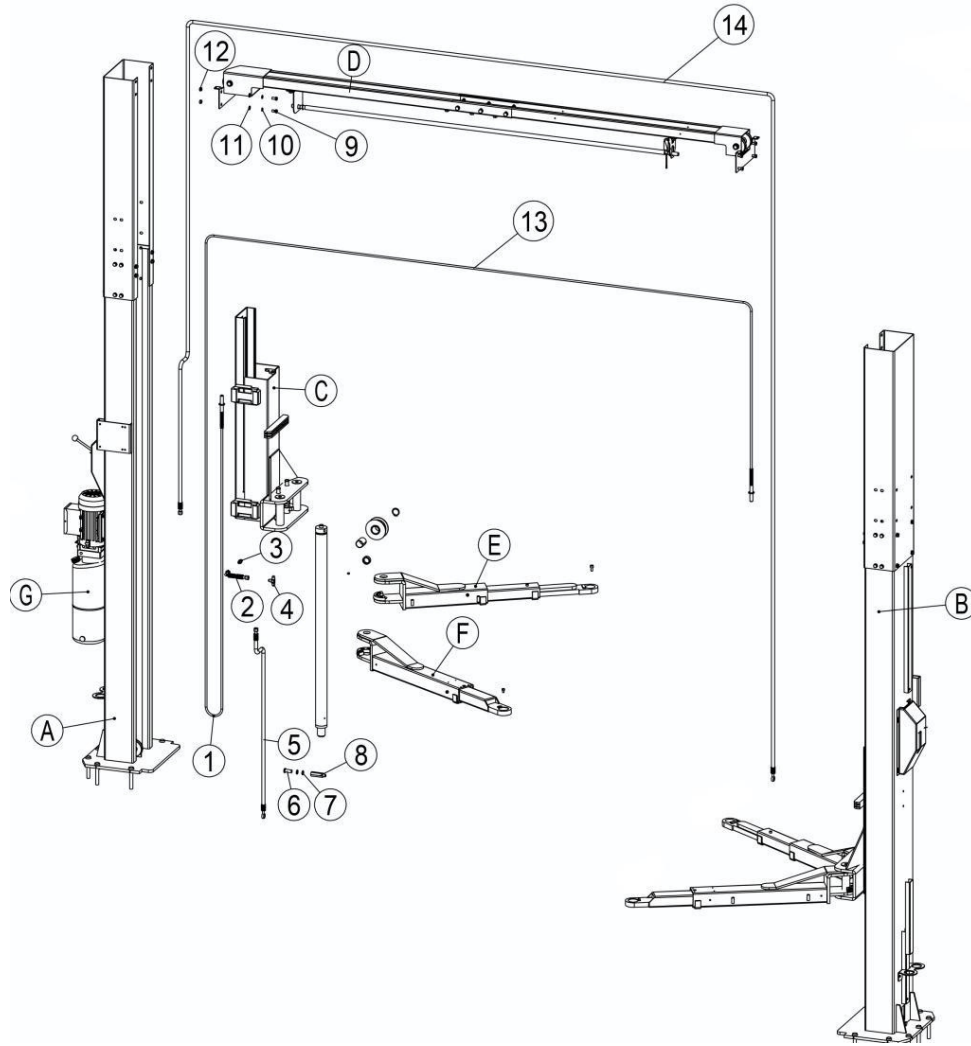
1. Press the power switch to raise the car by approximately 30mm/1.2”.
2. Pull down to unlock the handle.
3. Press the lower lever to start lowering process. The arm lock will be automatically released to allow arm rotation when the vehicle is completely lowered to the ground.

Load Test

Before testing, check anchor bolts to make sure they are completely tightened, and also make sure carriages on both sides are at the same level (height difference should be less than 10mm/0.39”). Adjust the cable nut on the shorter carriage to make sure the carriages height are at the same level and the 2 cables have similar tension.

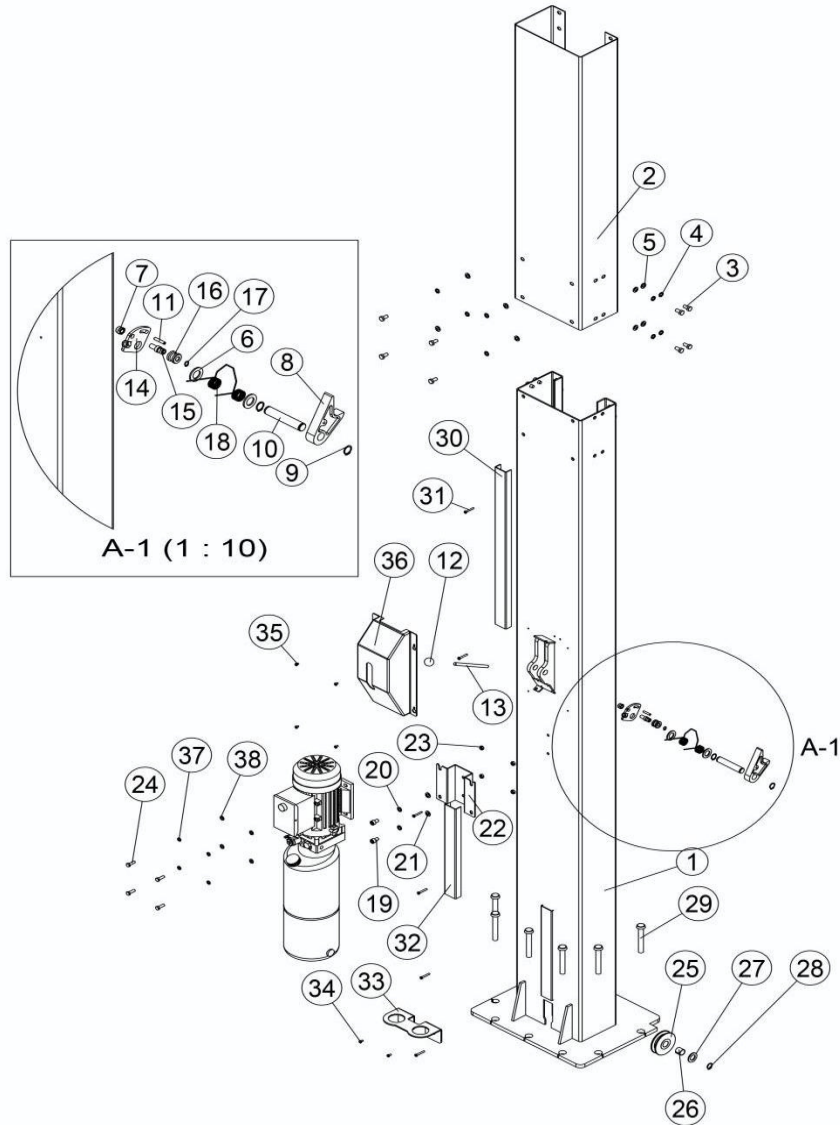
APPENDIX

Structure and Parts List



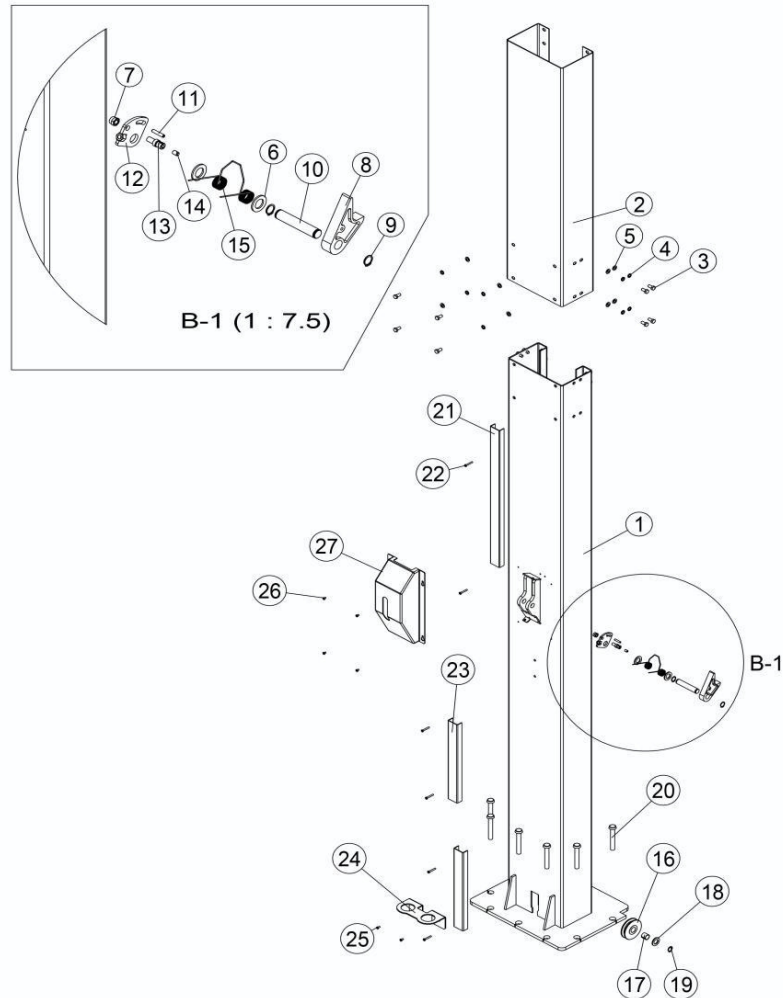
No.	Part Number	Name	Qty
A	001-A	Main Column Assembly	1
B	001-B	Vice Column Assembly	1
C	001-C	Carriage Assembly	2
D	001-D	Overhead Beam Assembly	1
E	001-E	Three Stages Arm Assembly	2
F	001-F	Two Stages Arm Assembly	2
G	001-G	Pump Assembly	1
H	001-H	Hydraulic Cylinder Assembly	2
1	Ø8X9980 M16	Equalizing Cable Assembly Ø8x9980, thread head M16	2
2	Ø8X350/M16X1.5	Pump Hose Assembly Ø8x350, fitting M16x1.5	1
3	ZG3/8-M16X1.5	M16x1.5	1
4	M16X1.5	Fitting M16x1.5	1
5	Ø8X900/M16X1.5Q	Hose	1
6	M16X1.5	Special Bolt For Q-Joint	2
7	Ø16	Sealing Ring	4
8	ZG3/8-M16X1.5	Fitting	2
9	H001030	Outer Hexagon Bolt M10x30	8
10	LW001000	Spring Washer Ø10	8
11	W001000	Flat Washer Ø10	8
12	HN001000	Hexagon Nut M10	8
13	Ø8X9900/M16X1.5Q	Hose	1

Main Column



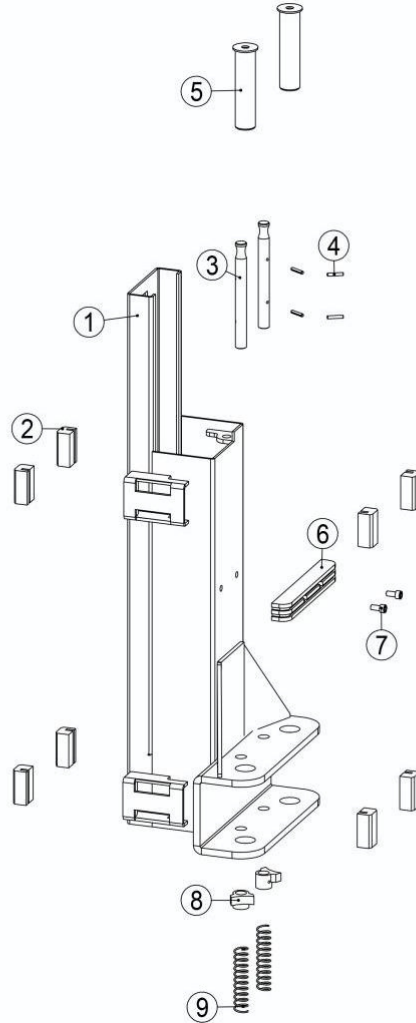
No.	Part Number	Name	Qty	No.	Part Number	Name	Qty
1	DBLM-01-01-00	Main Column Weldment	1	20	LW001000	Lock Washer Ø10	2
2	DBLM-01-02-00	Extension Column Weldment	1	21	RE001000	Washer Ø10	2
3	H001020	Hex Bolt M10x20	16	22	DBLM-00-08	Pump Bracket	1
4	LW001000	Lock Washer Ø10	16	23	HN000800	Hex Nut M8	4
5	W001000	Washer Ø10	16	24	H000820	Hex Bolt M8X20	4
6	W002000	Washer Ø20	2	25	DBLM-00-09	Equalizing Cable Pulley	1
7	SL001000	Self Lock Nut M10	2	26	SF-2020	Bronze Bush Sf-2020	1
8	DBLM-00-01	Lock Block	1	27	W002000	Washer	1
9	RE002000	Retaining Ring External Ø20	2	28	RE002000	Retaining Ring External Ø20	1
10	DBLM-00-02	Lock Block Shaft	1	29	DBLM-00-10	Anchor Bolt M20x160	6
11	SP000630	Expansion Pin Ø6x30	1	30	DBLM-00-11	Oil Tube Upper Trough	1
12	DBLM-00-03	Handle Ball	1	31	RH000530	Round Head Bolt M5x30	4
13	DBLM-00-04	Lock Release Stick	1	32	DBLM-00-12	Oil Tube Lower Trough	1
14	DBLM-00-05	Main Lock Plate	1	33	DBLM-00-13	Extension Bracket	1
15	DBLM-00-06	Safety Lock Releasing Cable	1	34	RH000510	Round Head Bolt M5x10	2
16	DBLM-00-07	Pulley of Lock Releasing Cable	1	35	RH000512	Round Head Bolt M5x12	4
17	RE001000	Retaining Ring External Ø10	1	36	DBLM-00-14	Lock Cover	1
18	SS261402	Lock Spring	1	37	LW000800	Lock Washer Ø8	4
19	IH001012	Inside Hex Bolt/M10x12	1	38	W000800	Washer Ø8	1

Vice Column



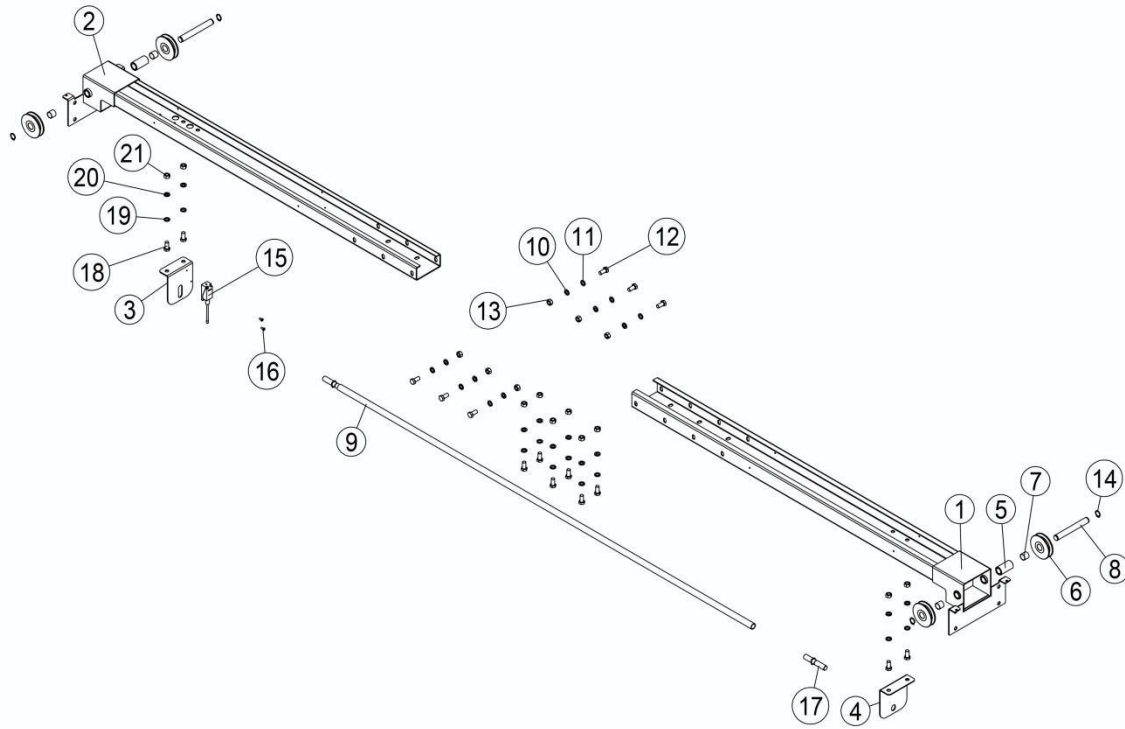
No.	Part Number	Name	Qty	No.	Part Number	Name	Qty
1	DBLM-02-01-00	Main Column Weldment	1	15	SS261402	Lock Spring	15
2	DBLM-02-02-00	Extension Column Weldment	1	16	DBLM-00-07	Equalizing Cable Pulley	1
3	H001020	Hex Bolt M10x20	16	17	SF-2020	Bronze Bush Sf-2020	1
4	LW001000	Lock Washer Ø10	16	18	W002000	Washer Ø20	1
5	W001000	Washer Ø10	16	19	RE002000	Retaining Ring External Ø20	1
6	W002000	Lock Washer Ø20	2	20	DBLM-00-10	Anchor Bolt M20x160	6
7	SL001000	Self Lock Nut M10	2	21	DBLM-00-11	Oil Tube Upper Trough	1
8	DBLM-00-01	Lock Block	1	22	RH000530	Round Head Bolt M5x30	4
9	RE002000	Retaining Ring External Ø20	2	23	DBLM-00-12	Oil Tube Lower Trough	1
10	DBLM-00-02	Lock Block Shaft	1	24	DBLM-00-13	Extension Bracket	1
11	SP000630	Expansion Pin Ø6x30	1	25	RH000510	Round Head Bolt M5x10	2
12	DBLM-00-15	Secondary Lock Platel	1	26	RH000512	Round Head Bolt M5x12	4
13	DBLM-00-16	Lock Cable Fix Knot	1	27	DBLM-00-14	Lock Cover	1
14	ST000812	Fastening Screw M8x12	1				

Carriages



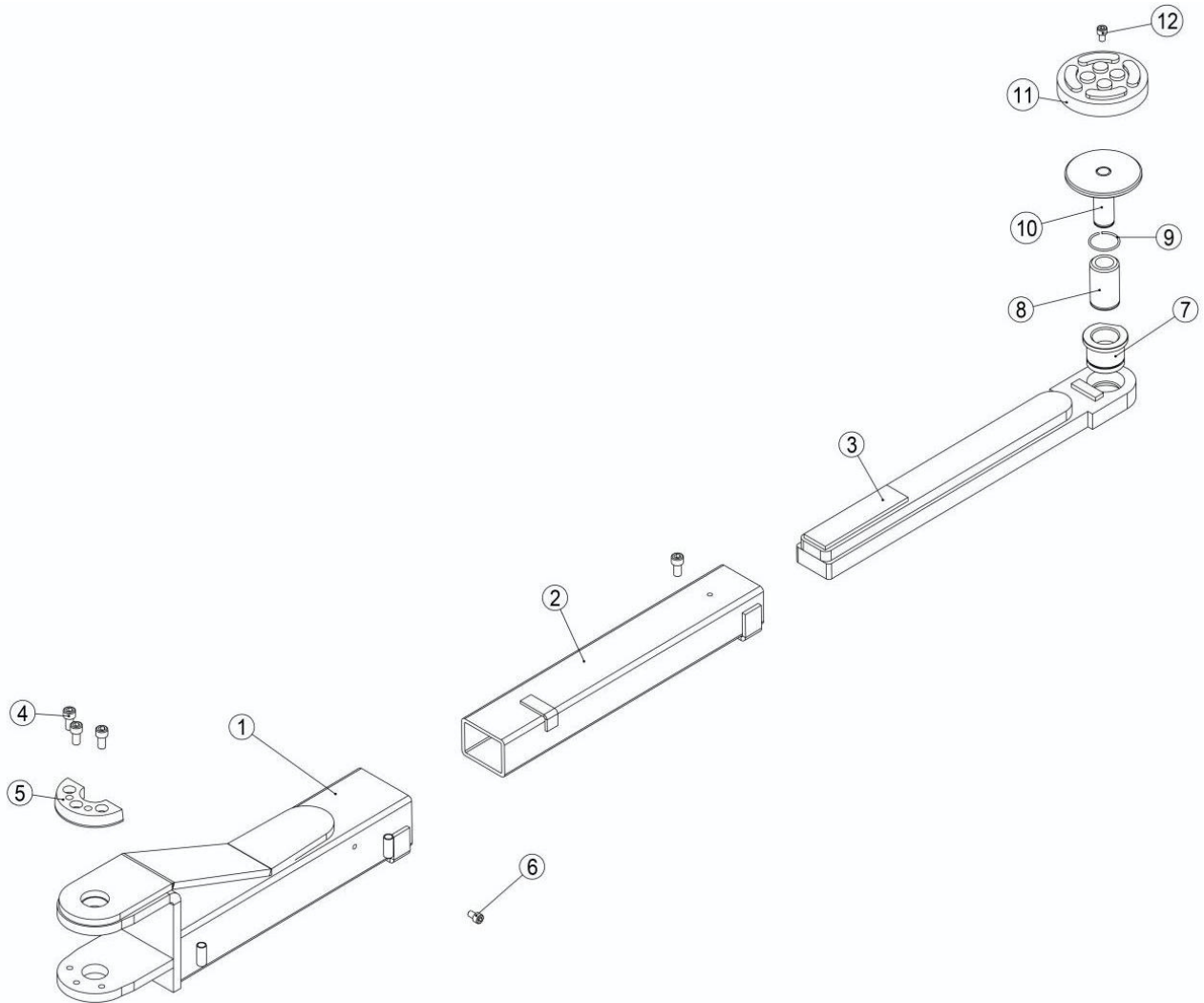
No.	Part Number	Name	Qty
1	DBLM-03-01-00	Carriage Weldment	1
2	DBLM-00-16	UHMW Polyethylene Slide Block	8
3	DBLM-00-17	Arm Lock Pin	2
4	S000630	Expansion Pin Ø6x32	2
5	DBLM-00-18	Arm Fix Shaft	2
6	DBLM-00-19	Protective Rubber	1
7	SH000825	Sunk Bolt M8x25	2
8	DBLM-00-20	Arm Lock	2
9	DBLM-00-21	Arm Lock Spring Ø26x140xØ2	2
10	W001000	Washer Ø10	2
11	DBLM-00-30	Lock Rod Spring	2
12	DBLM-00-31	Circlip (B-Shape)	2
13	DBLM-00-32	Locked Teeth Block	2
14	DBLM-00-33	Unlock Lever	2
15	DBLM-00-34	Handle Ball	2

Over head beam



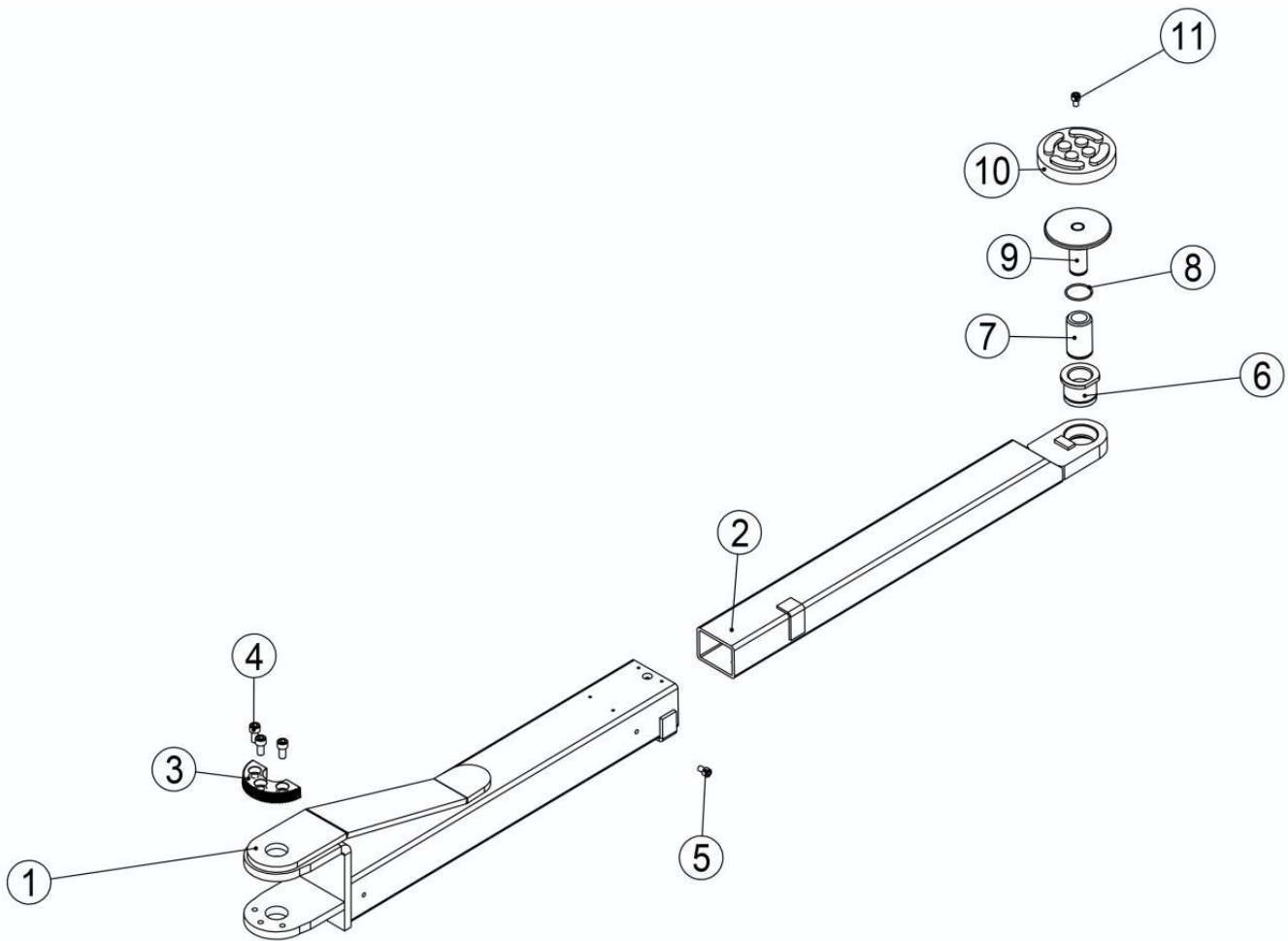
No.	Part Number	Name	Qty	No.	Part Number	Name	Qty
1	DBLM-04-01-00	Right Half Top Beam Weldment	1	12	H001030	Hex Bolt 10x30	6
2	DBLM-04-02-00	Left Half Top Beam Weldment	1	13	HN001000	Hex Bolt M10	6
3	DBLM-00-21	Over Head Safety Bar Bracket 1	1	14	RE002000	Retaining Ring External	4
4	DBLM-00-22	Over Head Safety Bar Bracket 2	1	15	3028	Limit Switch	1
5	DBLM-00-23	Equalizing Cable Pulley Spacer	2	16	RH000510	Round Head Bolt M5x10	2
6	DBLM-00-09	Equalizing Cable Pulley Spacer	4	17	H001030	Round Head Bolt M10x30	1
7	SF-2020	Bronze Bush Sf-2020	4	18	H001030	Round Head Bolt M10x30	4
8	DBLM-00-24	Equalizing Cable Pulley Shaft	2	19	H001000	Washer Ø10	4
9	DBLM-00-25-00	Over Head Safety Bar Bracket 2	1	20	LW001000	Lock Washer Ø10	4
10	LW001000	Washer Ø20	6	21	H001030	Hex Nut M10	4
11	W001000	Lock Washer Ø10	6				

3-Stage Arm



No.	Part#	Name	Qty
1	DNLM -05-01 -00	Inner arm of three stage arms	2
2	DNLM -05-02 -00	Middle arm of three stage arms	2
3	DNLM -05-03 -00	Outer arm of three stage arms	2
4	IH00 102 0	Inside hex bolt M10X20	6
5	DBL M-00-2 5	Moon gear	2
6	IH00 081 0	Inside hex bolt M8X10	4
7	DBL M-00-2 6	Sleeve of one stage screwed pad	2
8	DBL M-00-2 7	Extension	2
9	DBL M-00-2 8	Stop steel ring external Ø20	2
10	DBL M-00-2 9	Screwed pad	2
11	DBL M-00-3 0	Rubber cover	2
12	IH00 102 0	Inside hex bolt M10X20	2

2-Stage Arm



No.	Part#	Name	Qty
1	DBL M-06-0 1-00	Inner arm of two stage arms	2
2	DBL M-06-0 2-00	Outer arm of two stage arms	2
3	DBL M-00-2 5	Moon gear	2
4	IH001 020	Inside hex bolt M10X20	6
5	IH000 820	Inside hex bolt M10X10	2
6	DBL M-00-2 6	Sleeve of one stage screwed pad	2
7	DBL M-00-2 7	Extension	2
8	DBL M-00-2 8	Stop steel ring externalΦ20	2
9	DBL M-00-2 9	Screwed pad	2
10	DBL M-00-3 0	Rubber cover	2
11	IH00 102 0	Inside hex bolt M10X20	2

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