Model No. SAE-C10P

Direct drive 2 post Lift Single Point Manual Release Lifting Capacity 10,000 lbs

Installation & Operation & Maintenance Instructions



Important Note

- 1. This equipment can not be installed, operated or repaired without reading instructions.
- 2. Electricity must be hooked up by certified electrician.
- 3. Do not use this equipment beyond its rated capacity.

TABLE OF CONTENTS

1. Packing, transport and storage	
1.1 Packing	
1.2 Transport	
1.3 Storage	5
2. Technical specifications	6
3. Safety	
3.1 Important notices	9
3.2 Qualified personnel	9
3.3 Danger notices	9
3.4 Training	9
3.5 Warning signs	10
4. Installation	
4.1 Tool required	11
4.2 Checking for room suitability	12
4.3 Lighting	12
4.4 Floor requirement	
4.5 Site layout	
4.6 Assemble columns	
4.7 Installation overhead top beam	
4.8 Position columns	
4.9 Install overhead top beam	
4.10 Install limit switch	
4.11 Adjust carriage	
4.12 Install cables (2 Cables in total)	
4.13 Routing the safety release cable	
4.14 Installation of power unit	
4.15 Connection of hydraulic hoses	
4.16 Make the electrical connection	
4.17 Oil filling and bleeding	
4.18 Installation of lifting arms and adjustment of arm locks	
4.19 Check before start-up	
4.19.1 General checks	
4.19.2 Mechanical safeties for proper installation	
4.19.3 Equalizer cable for proper installation	20 26
4.19.4 Hydraulic system for proper operation	
4.20 Check with load	
5. Operation and use	
5.1 Controls	
5.2 Vehicle positioning	
5.3 Lifting	
5.4 Standing	
5.5 Lowering	
6. Maintenance	
6.1 Ordinary maintenance	
6.2 Periodic maintenance	
7. Troubleshooting	
8. Parts list	
8.1 Explosive view and parts list	
8.2 Hydraulic system and parts list	
8.3 Steel cable assembly and parts list	
8.4 Safety lock system and parts list	
8.5 Cross beam assembly and parts list	
8.6 Lifting carriage and parts list	
8.7 Arm assembly and parts list	40

STRATUS Clear Floor 2 post Lift Installation & Operation & Maintenance Instructions

9. Special notes	42
9.1 Environmental damage	
9.2 Dismantling	
9.3 Disposal	
9 4 Noise declaration	

Foreword

Notes on the operating instructions

The present ORIGINAL OPERATING INSTRUCTIONS are designed to provide sufficient instruction for the safe operation of the product. The information is provided clearly and concisely. The chapters are arranged by letter and the pages are numbered continuously.

Our products are subject to ongoing development. Our company reserves the right to alter the design, equipment and technical features of the system. No guarantee of particular features of the product should therefore be assumed from the present operating instructions.

Safety notices and text mark-ups

Safety instructions and important explanations are indicated by the following graphics:



DANGER!

Indicates an extremely hazardous situation. Failure to comply with this instruction will result in severe irreparable injury and even death.



WARNING!

Indicates an extremely hazardous situation. Failure to comply with this instruction may result in severe irreparable injury and even death.



CAUTION!

Indicates a hazardous situation. Failure to comply with this instruction may result in slight to medium injury.

NOTE

Indicates a material hazard. Failure to comply with this instruction may result in material damage.

1. Packing, transport and storage

All packing, lifting, handling, transport and unpacking operations are to be performed exclusively by expert personnel with knowledge of the lift and the contents of this manual.

1.1 Packing

The packing of the lift is delivered in following components:

- 1 base unit packed in a steel frame, wrapped up in non-scratch material, including all the accessories.
- 1 power unit packed in a carton box.

1.2 Transport

See Fig 1, packing can be lifted or moved by lift trucks, cranes or bridge cranes. In case of slinging, a second person must always take care of the load, in order to avoid dangerous oscillations.

During loading and unloading operation, goods must be handled by vehicles or ships.

At the arrival of the goods, verify that all items specified in the delivery notes are included. In case of missing parts, possible defects or damage due to transport operations.

If finding missing parts, possible defects or damage due to transport, one should examine damaged cartons according to << Packing List.>> to verify the condition of damaged goods and missing parts, also the person in charge or the carrier must be immediately informed.

The machine is heavy goods! Don't take manpower load and unload and transporting way into consideration, the safety of working is important.

Furthermore, during loading and unloading operation goods must be handled as shown in the picture. (Fig 1)



Fig 1

1.3 Storage

The machine equipment should be stocked in the warehouse, if stocked outside should do the disposal well of waterproof.

Use box truck in the process of transport, use container storage when shipping.

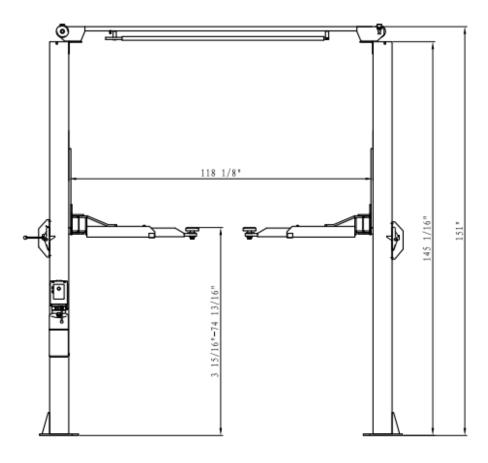
The control box should be placed perpendicularly during the transport; and prevent other goods from extrusion.

The temperature for machine storage: -10°C-- 40°C

2. Technical specifications

Model	SAE	-C10P
	Symmetric Installation	Asymmetric Installation
Lifting capacity	10,000lbs(4,500KG)	10,000lbs(4,500KG)
Lifting height	74 13/16"(1900mm)	74 13/16"(1900mm)
Min. height	3 15/16"(100mm)	3 15/16"(100mm)
Column inside	118 1/8"(3000mm)	115 3/8"(2930mm)
Drive through	107 1/16"(2720mm)	103 15/16"(2640mm)
Lifting time	About 50 sec.	About 50 sec.
Lowering Time	About 40 sec.	About 40 sec.
Column thickness of steel	3/16"(5.0mm)	3/16"(5.0mm)
Carriage thickness of steel	3/16"(5.0mm)	3/16"(5.0mm)
Arms thickness of steel	1/4"(6.0mm)	1/4"(6.0mm)
Voltage	220V	220V
Power	2.2Kw	2.2Kw
Frequency	60Hz	60Hz
Phase	1Ph	1Ph
Breaker	30A	30A
Hydraulic oil	AW46/AW32	AW46/AW32
Shipping Size	2920*620*630mm/ 115"×24"×25"	2920*620*630mm/ 115"×24"×25"
Equipment weight	1446lbs(656KG)	1446lbs(656KG)

Symmetric Installation



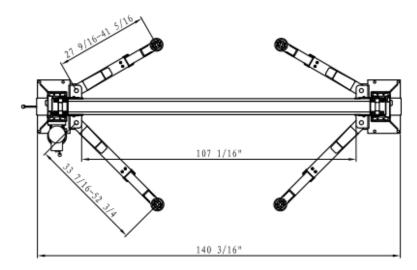
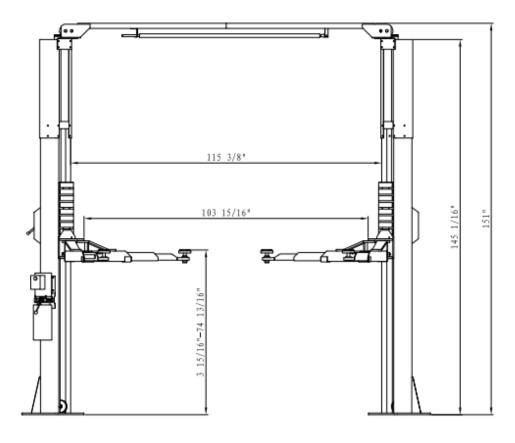


Fig. 2

Asymmetric Installation



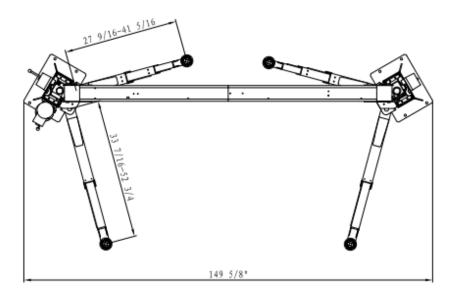


Fig. 3

3. Safety

3.1 Important notices

This 2-posts lift is specially designed for lifting motor vehicles that weighs within its outmost lifting capacity. Users are not allowed to use it for any other purposes. Otherwise, we, as well as our sales agency, will not bear any responsibility for accidents or damages of the lift. Make sure to pay careful attention to the label of the lifting capacity attached on the lift and never try to lift cars with its weight beyond.

Read this manual carefully before operating the machine so as to avoid economic loss or personnel casualty incurred by wrong operation. Without professional advice, users are not permitted to make any modification to the control unit or whatever mechanical unit.

3.2 Qualified personnel

- Only these qualified staff, who have been properly trained, can operate the lift.
- Electrical connection must be done by a competent electrician.
- People who are not concerned are not allowed in the lifting area.

3.3 Danger notices

- Do not install the lift on any asphalt surface.
- > Read and understand all safety warnings before operating the lift.
- The lift, if is not specially designed upon customer's request, is not fit for outdoor use.
- Keep hands and feet away from any moving parts. Keep feet clear of the lift when lowering.
- Only these qualified people, who have been properly trained, can operate the lift.
- > Do not wear unfit clothes such as large clothes with flounces, tires, etc, which could be caught by moving parts of the lift.
- > To prevent evitable incidents, surrounding areas of the lift must be tidy and with nothing unconcerned.
- The lift is simply designed to lift the entire body of vehicles, with its maximum weight within the lifting capacity.
- Always ensure the safety latches are engaged before any attempt to work near or under the vehicle.
- Make sure to place the lifting pads to the positions as suggested by vehicle makers and when gradually lift the vehicle to the desired height, operators should be certain that the vehicle will not slant, roll-over or slide in lifting process.
- > Check at any time the parts the lift to ensure the agility of moving parts and the performance of synchronization. Ensure regular maintenance and if anything abnormal occurs, stop using the lift immediately and contact our dealers for help.
- > Lower the lift to its lowest position and do remember to cut off the power source when service finishes.
- > Do not modify any parts of the lift without manufacturer's advice.
- If the lift is going to left used for a long time, users are required to:
 - a. Disconnect the power source;
 - b. Empty the oil tank;
 - c. Lubricate the moving parts with hydraulic oil.

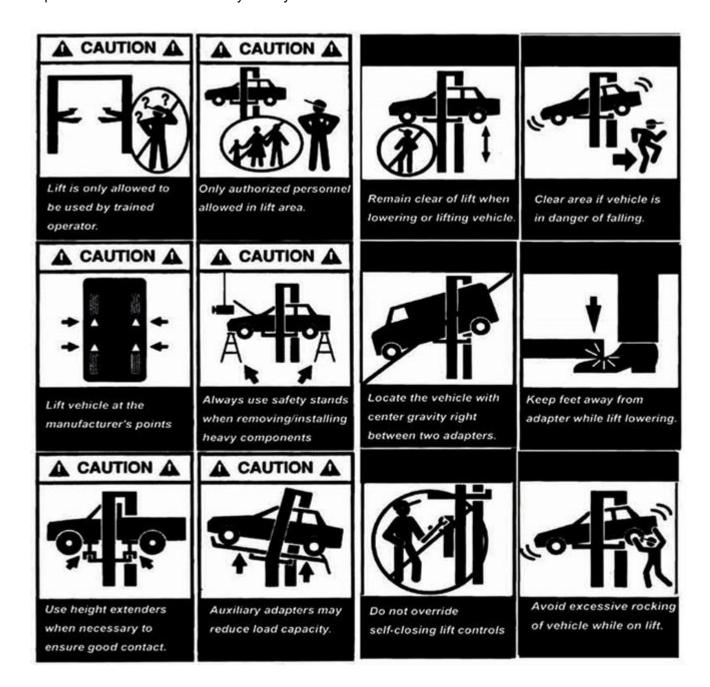
3.4 Training

Only these qualified people, who have been properly trained, can operate the lift. We are quite willing to provide professional training for the users when necessary.

Attention: For environment protection, please dispose the disused oil in a proper way.

3.5 Warning signs

All safety warning signs attached on the machine are for the purpose of drawing the user's attention to safety operation. The labels must be kept clean and need to be replaced when they are worn-out or have dropped. Read the explanations of the labels carefully and try to memorize them.



4. Installation

Only skilled technicians, appointed by the manufacturer, or by authorized dealers, must be allowed to carry out installation. Serious damage to people and to the lift can be caused if installations are made by unskilled personnel.

Always refer to the exploded views attached during installation.

4.1 Tool required

Rotary Hammer Drill D.20	Carpenter's Chalk
Hammer	Screw Sets
Level Bar	Tape Measure (7.5m)
0 0	
English Spanner (12")	Pliers
Ratchet Spanner With Socket (28#)	Socket Head Wrench (3#, 5#, 8#)
Wrench set (10#, 13#, 14#, 15#, 17#, 19#, 24#, 27#, 30#)	Lock Wrench
	9 000

4.2 Checking for room suitability

The lift has been designed to be used in covered and sheltered places free of overhead obstructions.

The place of installation must not be next to washing areas, painting workbenches, solvent or varnish deposits. The installation near to rooms, where a dangerous situation of explosion can occur, is strictly forbidden. The relevant standards of the local Health and Safety at Work regulations, for instance, with respect to minimum distance to wall or other equipment, escapes and the like, must be observed.

4.3 Lighting

Lighting must be carried out according to the effective regulations of the place of installation. All areas next to the lift must be well and uniformly lit.

4.4 Floor requirement

The lift MUST be installed on 3000 PSI concrete with the minimum thickness 6" and an extension of at least 4' from anchoring points. New concrete must be adequately cured by at least 20 days minimum.

Specifications of concrete must be adhered to. Failure to do so could cause lift failure resulting in personal injury or death.

A level floor is suggested for proper installation. Small differences in floor slope may be compensated for by proper shimming. Any major slope change will affect the level lifting performance. If a floor is of questionable slope considering to pour the new concrete slab.

4.5 Site layout

- Now locate the lift according to the floor plan the figure 4 & 5, use a carpenters chalk line to layout a grid for the column locations.
- After the column locations are properly marked, use a chalk or crayon to make an outline of the columns on the floor at each location using the column base plates as a template.
- Double check all dimensions and make sure that the bases of each column are square and aligned with the chalk line.

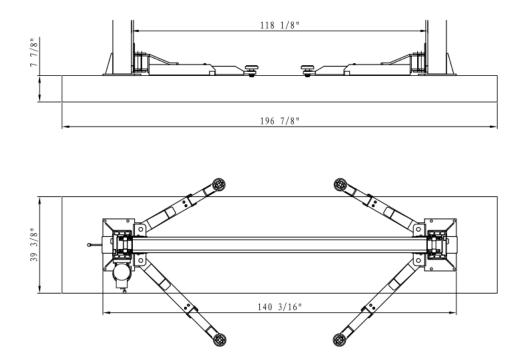
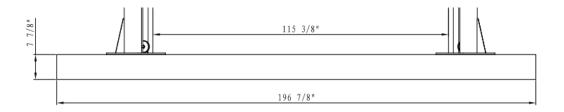


Fig. 4 – Symmetric Installation Floor Plan



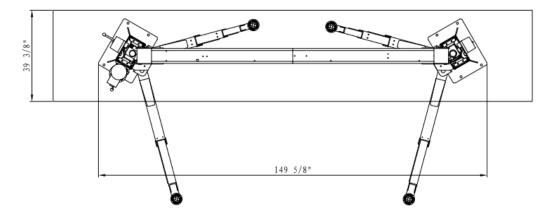


Fig. 5 Asymmetric Installation Floor Plan

4.6 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 6)

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

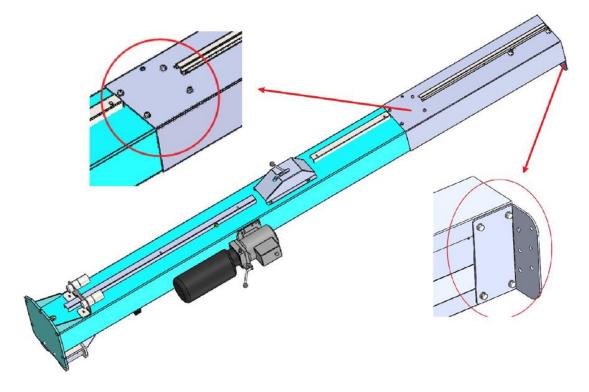
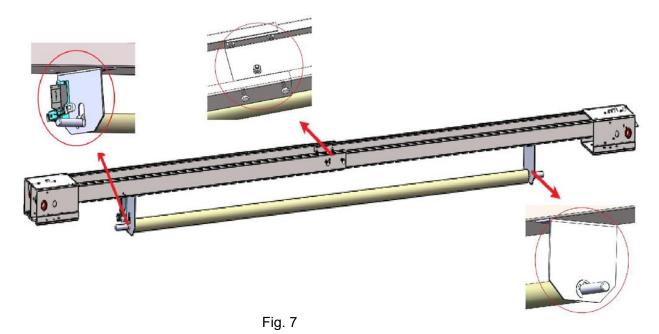


Fig. 6

4.7 Installation overhead top beam

1. Assemble overhead top beam (See Fig.7)

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



2. Install the overhead beam cable pulley.

Warning: Symmetrical installation and asymmetrical installation of the cable pulley positions are not universal. Incorrect installation of the pulley positions may cause damage to the cable or the lift.

- A. For symmetrical installation, use the long shaft and the long shaft sleeve to fix the cable pulley (pre-installed) (See Fig.8).
- B. For asymmetric installation, use 4 short shafts and 2 short shaft sleeves in the accessory box to fix the cable pulley (See Fig.9)

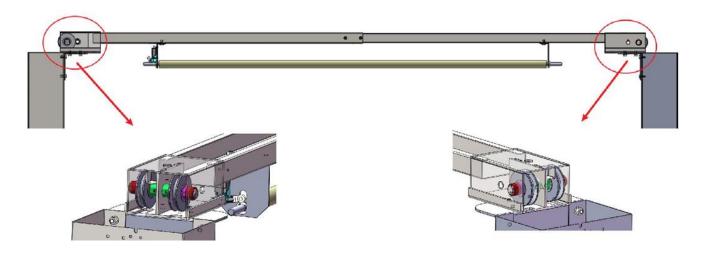


Fig. 8 Symmetric Installation

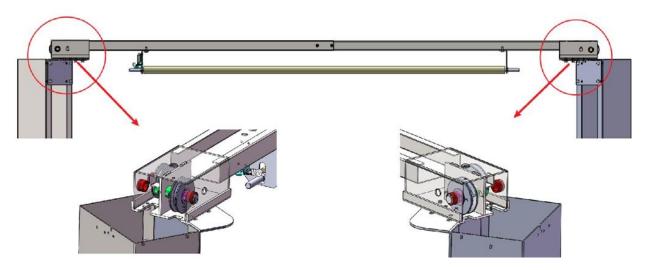


Fig. 9 Asymmetric Installation

C. Mounting position of cable pulley (Fig.10)

Note: During the installation, the positions of the cable pulley at both ends of the overhead beam should be installed correspondingly. There may be a gap between the cable pulley and the shaft sleeve, this is for the cable can be automatically aligned, normal abrasion. Do not add shim to fix the position of pulley, it may cause abnormal wear of the lift.

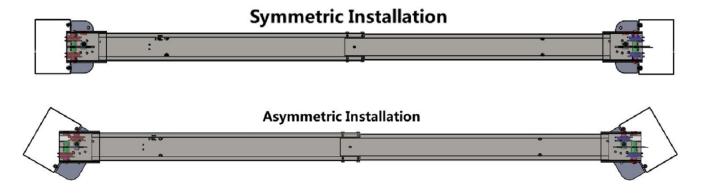


Fig. 10 Cable Pulley Position

4.8 Position columns

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

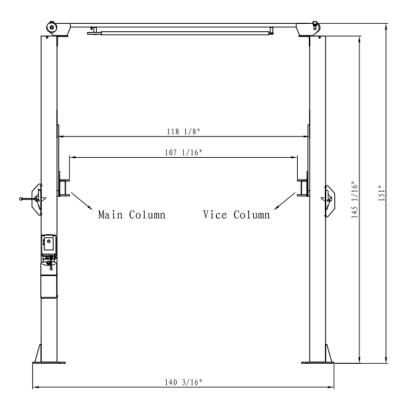


Fig. 11 Symmetric installation

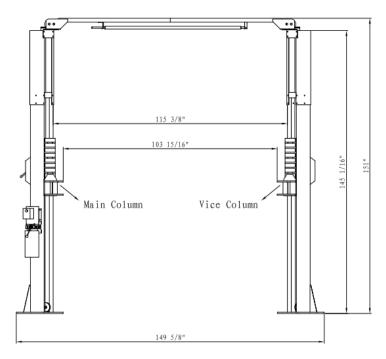


Fig. 12 Asymmetric installation

4.9 Install overhead top beam

- 1. When symmetrical installation method is adopted, cable pulley (refer to Fig. 10) should be installed according in a symmetrical manner and fix the 6 screws underneath the overhead beam (Fig. 13)
- 2.When asymmetrical installation is adopted, cable pulley (refer to Fig. 10) should be installed according in asymmetrical manner and fix the 5 screws underneath the overhead beam (Fig 14).

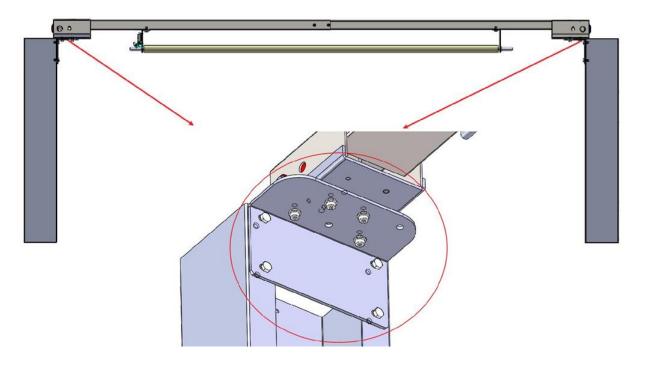


Fig. 13 Symmetric Install overhead top beam

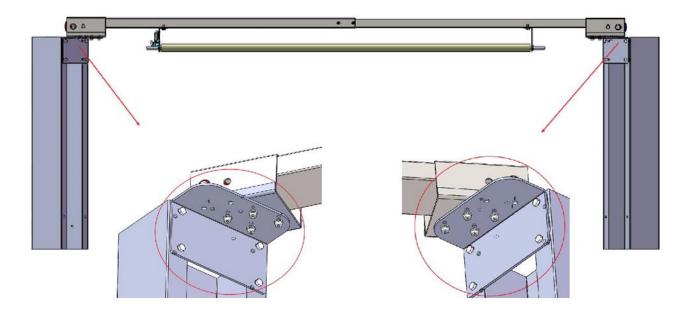


Fig. 14 Asymmetric Install overhead top beam

4.10 Install limit switch

1. View of the two limiter switches (Fig.15):

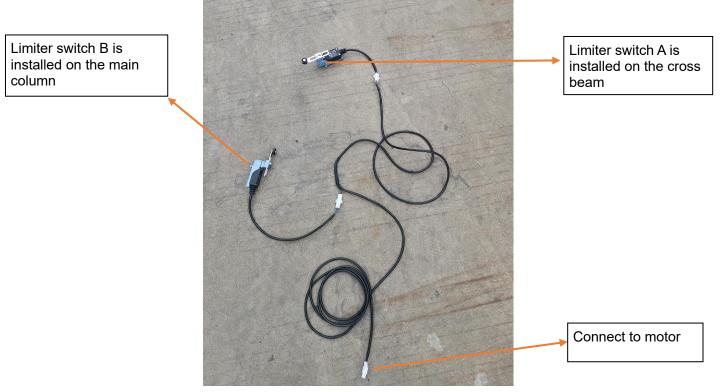


Fig. 15

2. Install the limiter switch A on the cross beam (Fig. 16):



Fig. 16

3. Install the limiter switch B inside of the main column (Fig. 17):



Fig. 17

4. Connect the limiter switch connector to the motor (Fig. 18):



Fig. 18

4.11 Adjust carriage

Raise the carriage to the 1st locking position located at the bottom of the column (Fig. 19).

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

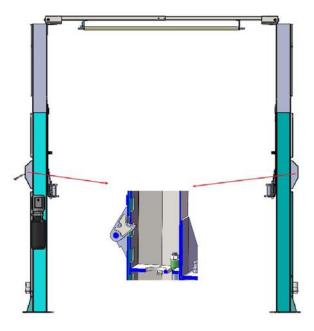


Fig. 19

4.12 Install cables (2 Cables in total)

Note: Please pay attention to the change of the hanging point of the cable during symmetrical installation (Fig.20) and asymmetrical installation (Fig. 21) during the installation.

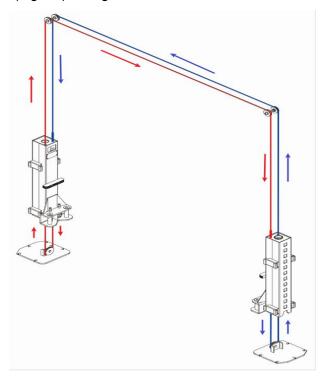


Fig. 20 Symmetric Installation Cable Routing

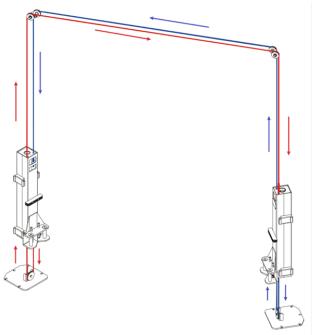


Fig. 21 Asymmetric Installation Cable Routing

4.13 Routing the safety 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 22)
- 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.

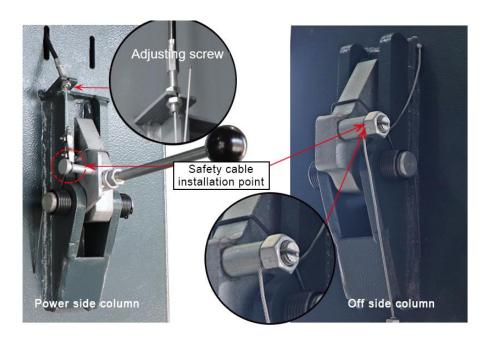


Fig. 22

4.14 Installation of power unit

- Attach the power unit onto the bracket on the power side column;
- Secure it using nuts M10X20, the locking washers D.10 and washers D. 10.



Fig.23

4.15 Connection of hydraulic hoses

Connect the longer hose in between the 2 cylinders, 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 24)

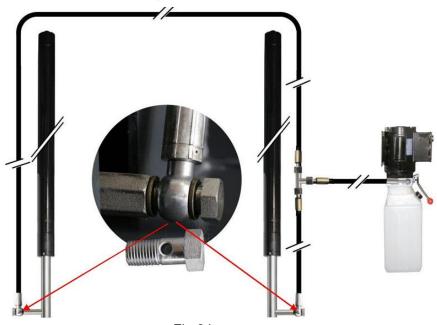


Fig.24

4.16 Make the electrical connection

Make sure all wiring are same as below circuit diagram (Fig 25).

Attention: electrical system connection must be done by licensed electrician.

Warning: When installing the power cord for the first time, remove the test cable (short wire) from the motor and replace it with a cable(wire) less than #12 gauge. The time interval between motor starts is at least more than 2 seconds. Otherwise the motor or AC contactor may be burnt out.

Suggest to use min 30A breaker (not higher than the wire load).

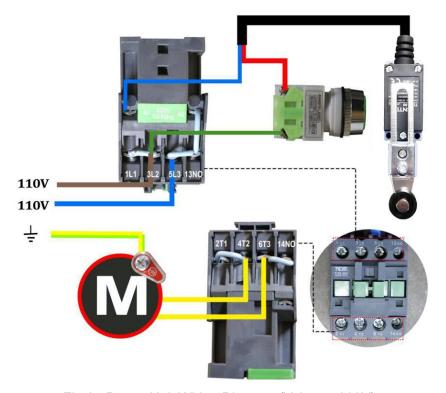


Fig 25 Power Unit Wiring Diagram (Voltage: 220V)

4.17 Oil filling and bleeding

DO NOT run power unit without oil. Damage to pump can occur. If motor gets hot or sounds peculiar, stop immediately and recheck the electric connection.

If the vented cap is lost or broken, order the replacement. The oil tank must be vented well.

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).

Make sure there is no oil leak.

Repeatedly raise and lower the lift to bleed trapped air from the cylinders.

Power unit testing (Fig 26)

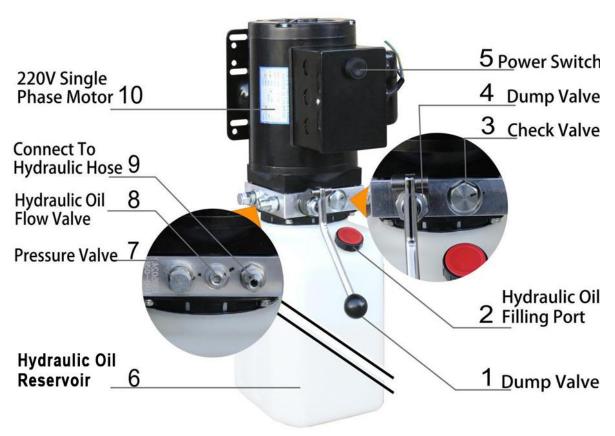


Fig 26

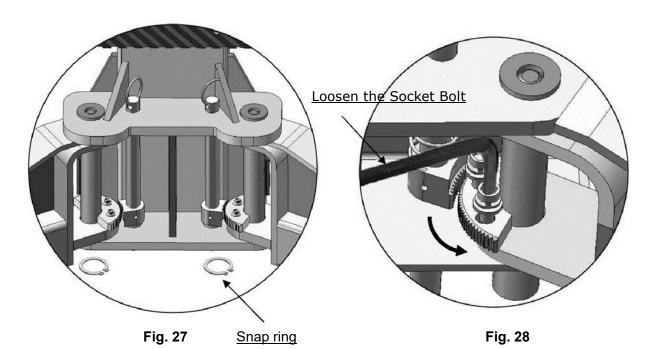
Important Information

7 Pressure Valve: Clockwise adjustment increases pressure to make the power unit to have more power, counterclockwise adjustment decreases pressure to make the power unit to have less power.

8 Hydraulic oil Flow Valve: Clockwise adjustment to speed up, counterclockwise adjustment to slow down.

4.18 Installation of lifting arms and adjustment of arm locks

- 1. Install lifting arms (Fig. 27).
- 2. Lower the carriages down to the lowest position, use the 8# socket head wrench to loose the socket bolt (Fig.28).
- 3. Adjust moon gear as direction of arrow (Fig.29).
- 4. Adjust the moon gear and arm lock to make it to be meshed, then tighten the socket bolts of arm lock (Fig.30).



Install lifting arms

Use the 8# socket head wrench to loosen the socket bolt

Locking the bolts after moon

Moon Gear

Fig. 29
Adjust moon gear and arm lock to make it to be engaged

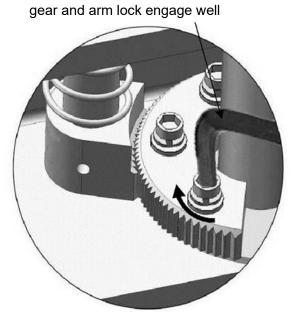


Fig. 30

Locking the bolts after the moon gear and arm lock engaged well

4.19 Check before start-up

4.19.1 General checks

- Make sure that the columns are plumb;
- Make sure the lift anchored to the ground and all anchor bolts tightened.
- Make sure the electrical system feeding voltage is equal to that specified in the nameplate on the motor;
- Make sure the electric system connection in conformity of the electric plan shown as the electric diagram and for proper grounding.

4.19.2 Mechanical safeties for proper installation

- Check to make sure that safety latches will properly engage and disengage by manual release;
- If latches click out of synchronization, tighten the cable on the one that clicks later.

4.19.3 Equalizer cable for proper installation

The equalizer cables should be checked weekly for equal tension. Failure to do this will cause uneven lifting. The cables should always be adjusted so that they are equal tension when resting on the safety locks.

- Raise the carriages to check the equalizer cable tension by grasping the adjacent cables between the thumb and the forefinger so that you can just pull the cables together (ref. fig. 31);
- Adjust the cable tensions if necessary.

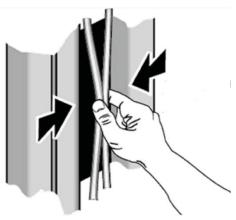


Fig. 31

4.19.4 Hydraulic system for proper operation

- Make sure that the cylinder is located in the center hole in the base of column;
- Proper oil level in the tank, refill if needed;
- Raise the lift to the full height and keep the motor running for 5 seconds and check all hoses connections to make sure no leakage. Tighten the connections or reseal if necessary;
- Check the lift for reaching its maximum height;
- Repeat the air bleeding of cylinders if necessary.

4.20 Check with load

WARNING: please follow carefully the instructions in the coming paragraph for avoiding damages on the lift. Carried out two or three complete cycles of lowering with the vehicle loaded:

- Repeat the checks provided for by 4.14.
- Check no strange noise during lifting and lowering.

5. Operation and use

NEVER operate the lift with any person or equipment below. NEVER exceed the rate lifting capacity.

NEVER lift a vehicle in any manner with less than four arms. Always ensure that the mechanical locks are engaged before any attempt is made to work on or near the vehicle.

Always lift a vehicle on the lifting pads.

NEVER leave the lift in an elevated position unless the safeties are engaged.

If an anchor bolt becomes loose or any component of the lift is found to be defective, DO NOT USE THE LIFT until repairs are made.

5.1 Controls

Controls for operating the lift are:

Lifting button (1):

When pressed, the power unit is running and the lift can be raised to a desired height until the button is released.

Lowering lever (2):

- If the mechanical locks are not released, the lift will lower to the nearest lock position.
- If both mechanical locks are released, press the lower lever, the lift will lower to the desired height under its weight and the load lifted until the lever is released.
- Locks will automatically reset once the lift ascends approximately 15" from base.

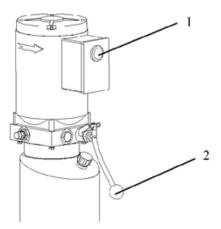


Fig. 32

Lift operation can be summarized into four steps:

5.2 Vehicle positioning

- Positioning the vehicle between columns;
- Adjust lift arms so that the vehicle is positioned with the center gravity between the pads. Make sure the arm safeties are engaged;
- Raise the lift by pressing the lifting button until the lifting adaptors contact underside of the vehicle;
- Make sure the vehicle is secured.

5.3 Lifting

Raise the lift by pushing the lifting button until reaching the desire height.

5.4 Standing

- Press the lowering lever to engage the nearest lock position;
- Always ensure that the lock in each column is engaged before any attempt is made to work on or near the vehicle.

5.5 Lowering

- Raise the lift a little bit by pushing the lifting button to clear off the mechanical locks;
- Release the locks manually;
- Lower the lift by pressing the lowering lever;
- · Before removing vehicle from the lift area, position the lift arms to and pads to provide an obstructed exit;
- Never drive over the lift arms.

6. Maintenance

Only trained people who know how the lift works, can be allowed to service the lift.

To service properly the lift, the following has to be carried out:

- use only genuine spare parts as well as equipment suitable for the work required;
- follow the scheduled maintenance and check periods shown in the manual;
- discover the reason for possible failures such as too much noise, overheating, oil blow-by, etc.
- refer to documents supplied by the manufacture or dealer to carry out maintenance.

Before carrying out any maintenance or repair on the lift, disconnect the power supply.

6.1 Ordinary maintenance

The lift has to be properly cleaned at least once a month using self-cleaning clothes.

The use of water or inflammable liquid is strictly forbidden.

Be sure the rod of the hydraulic cylinders is always clean and not damaged since this may result in leakage from seals and, as a consequence, in possible malfunctions.

6.2 Periodic maintenance

Daily pre-operation	 Check hydraulic connections and hoses for leaks Check mechanical locks audibly and visually while in operation Check arm locks Check bolts, nuts and screws are tight
Every 1 month	 Check all cable connections, pins and bolts to insure proper mounting Inspect all anchor bolts and retighten if necessary Check columns for square-ness and plumb Check equalizer cable tension, adjust if necessary Check safety cable, adjust it if necessary Check all arm pivot pins. Make sure they are properly secured Check all lifting pads, replace if necessary Lubricant columns with grease Check the hydraulic oil, fill or replace if necessary Check hydraulic systems for proper operation
Every 12 months	 Verify that all components and mechanisms are not damaged Verify the equalizer cables are not worn, change if necessary Check the electrical system to verify that the motors operate properly (this work must be carried out by skilled electricians) Empty the oil tank and change the hydraulic oil

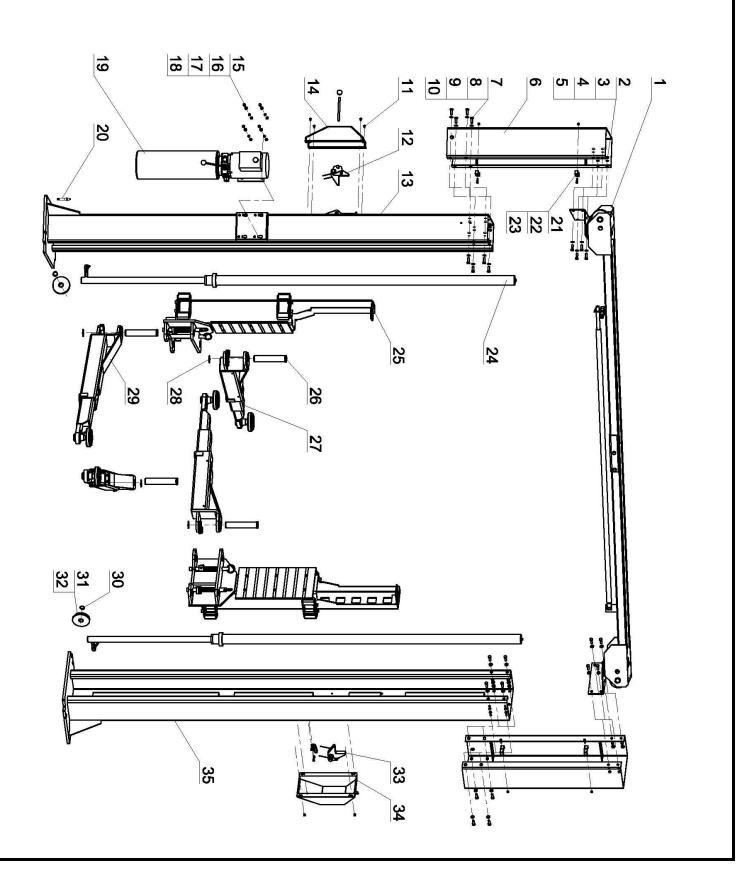
7. Troubleshooting

Troubleshooting and possible repairs require absolute compliance with **ALL THE SAFETY PRECAUTIONS** indicated in chapter 6 **"MAINTENANCE"** and chapter 3 **"SAFETY"**.

Problem	Possible cause	Solution
The lift does non rise when the pushbutton is pressed (motor does not run)	Burnt fuse Line current does not arrive Malfunction in the electric plant: -Broken limit switch	Replace fuse Connect again Call Service Center
The lift does non rise	-burnt motor Not enough oil	Top un oil level
when the pushbutton is pressed (motor runs)	Drain solenoid valve opened Max pressure valve working Leaks in the hydraulic circuit	Check electric connections or change it Take load down Repair the hydraulic circuit
Lift continues to rise after having released the up pushbutton	Faulty pushbutton	Unplug the lift and call Service Center
Lift does not descend	Forging object Solenoid valve blocked Malfunction in the electric plant Carriages still lean on security devices Block valves have tripped	Remove object Change it (call Service Center) Call Service Center Make the correct descent sequence Repair the hydraulic circuit damage
The lift does not rise to the maximum height	Oil is not enough Vehicle has tripped the end of- stroke bar	Add oil into the power unit oil tank This working is correct
After having released the up push button, the lift stops and lowers slowly	Drain valve dose not close because it is dirty Defective drain valve	At the same time set the rise and descent movements, to clean the valve Change (call Service Center)
The power unit motor overheats	Motor malfunction Wrong voltage	Call Service Center Check voltage
Power unit pump is noisy	Dirty oil Wrong assembling	Change oil Call Service Center
Oil leakage from cylinder	Damaged gaskets Dirt in the plant	Change the damaged gaskets Clean all parts Check the valves are not damaged

8. Parts list

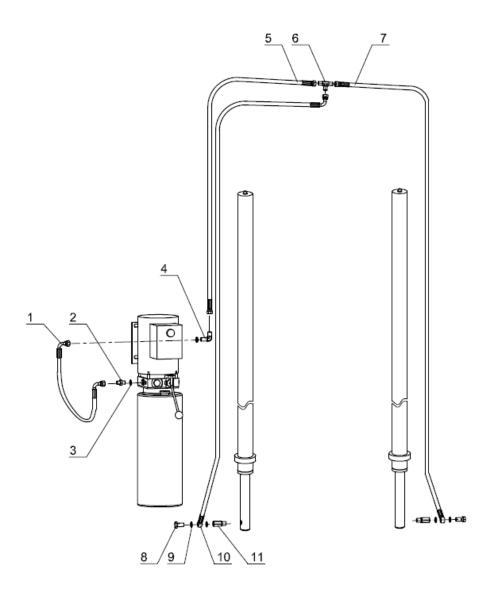
8.1 Explosive view and parts list



STRATUS Clear Floor 2 post Lift Installation & Operation & Maintenance Instructions

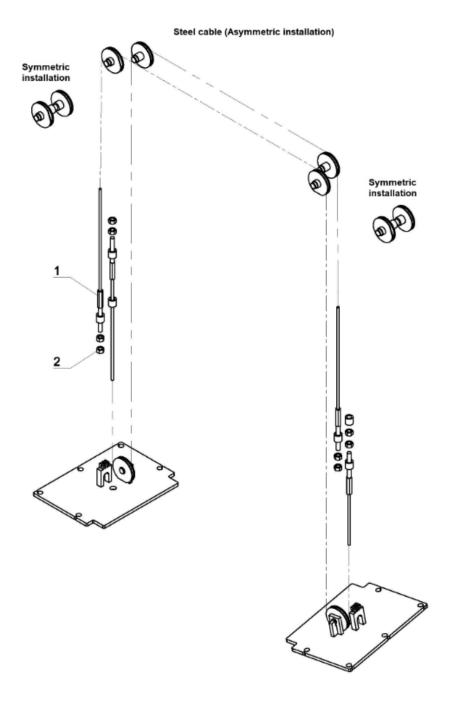
No.	Name	Specification	Quantity	Remark
1	Cross beam		1	
2	Bolt M10×30	GB/T 5781	8	
3	Nut M10	GB/T 6170	8	
4	Flat washer 10	GB/T 95	8	
5	Spring washer 10	GB/T 93	8	
6	Extension column	ON-7214DK-A1-B3	2	
7	Bolt M12×30	GB/T 5781	16	
8	Nut M12	GB/T 6170	16	
9	Flat washer 12	GB/T 95	16	
10	Spring washer 12	GB/T 93	16	
11	Screw M6×10	GB/T 818	10	
12	Power side safety lock		1	
13	Power side column	ON-7214DTK-A1-	1	
14	Power side safety lock cover	ON-7224DFL-A30	1	
15	Bolt M8×25	GB/T 5781	4	
16	Nut M8	GB/T 6170	4	
17	Flat washer 8	GB/T 95	4	
18	Spring washer 8	GB/T 93	4	
19	Power unit		1	
20	Anchor bolt M18×180		10	
21	Bolt M6×30	GB/T 818	4	
22	Locking nut M6	GB/T 889.1	4	
23	Clip	ON-7215DT-13-	4	
24	Oil cylinder 50×38×1850		2	
25	Lifting carriage		2	
26	Pin roll	ON-7214-A12	4	
27	Three-stage lifting arm		2	
28	Shaft ring 38	GB/T 894.2	4	
29	Two-stage lifting arm		2	
30	Shaft ring 25	GB/T 894.2	4	
31	Slide wheel	ON-7224-A1-B2	6	
32	Composite bush 2516	SF-2Y	6	
33	Off side safety lock		1	
34	Off side safety lock cover	ON-7224DFL-A31	1	
35	Off side column	ON-7214DTK-A2-	1	

8.2 Hydraulic system and parts list



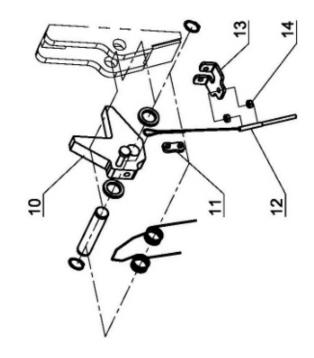
No.	Name	Specification	Quantity	Remark
1	Oil hose 450	ON-7214ZK-A18	1	
2	Power unit fitting		1	
3	Composite bush		1	
4	Straight angle fitting G1/4	ON-7224E-A4-B15	1	
5	Oil hose 4350	ON-7215DT-50-02	1	
6	T fitting G1/4	ON-7214Z-A32	1	
7	Oil hose 5500	ON-7215DT-50-01	1	
8	Hollow bolt G1/4		2	
9	Composite gasket G1/4		4	
10	Oil hose 5500	ON-7215DT-50-01	1	
11	Fitting 65	ON-7214DTK-A4-B1	2	

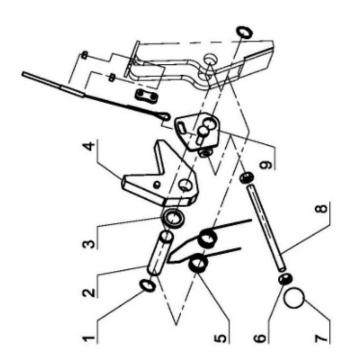
8.3 Steel cable installation and parts list



No.	Name	Specification	Quantity	Remark
1	Steel cable 10800	ON-7214ZK-A6	2	
2	Nut M16	GB/T 6170	4	

8.4 Safety lock system and parts list

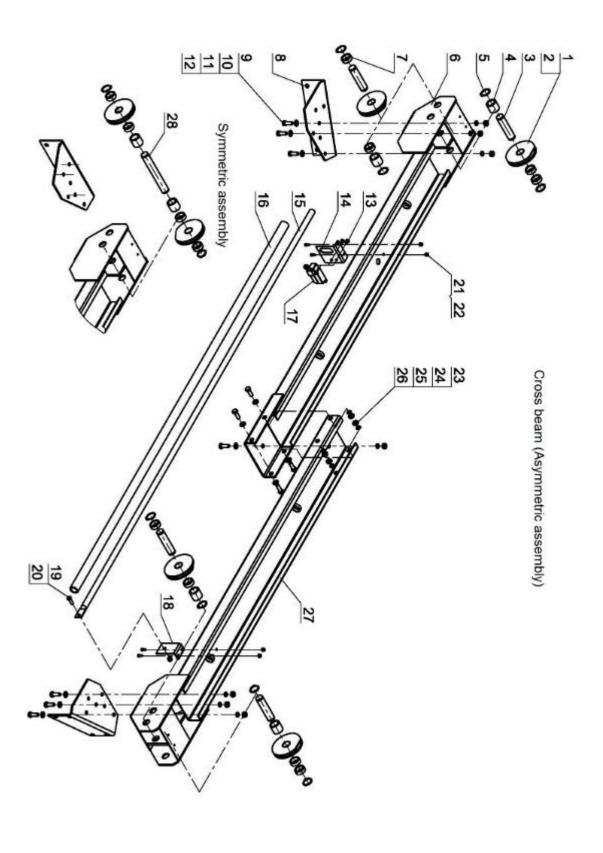




STRATUS Clear Floor 2 post Lift Installation & Operation & Maintenance Instructions

No.	Name	Specification	Quantity	Remark
1	Shaft ring 30	GB/T 894.2	4	
2	Safety lock hook shaft	ON-7216EL-10-06	2	
3	Lock spring cushion	ON-7216EL-10-05	3	
4	Power side safety lock	ON-7214DK-A4-B2	1	
5	Torsional spring	ON-7224D-36	2	
6	Nut M10	GB/T 6170	2	
7	Handle ball M10	ON-7214ZD-02-03-06	1	
8	Handle	ON-7215DT-10-10-14	1	
9	Handle turning block	ON-7214DK-A4-B3	1	
10	Off side safety lock	ON-7214DK-A4-B4	1	
11	Safety cable clip M2		2	
12	Safety cable 7300	ON-7224DFL-A6	1	
13	Safety cable fixing plate	ON-7224DFL-A21	1	
14	Nut M6	GB/T 6170	4	

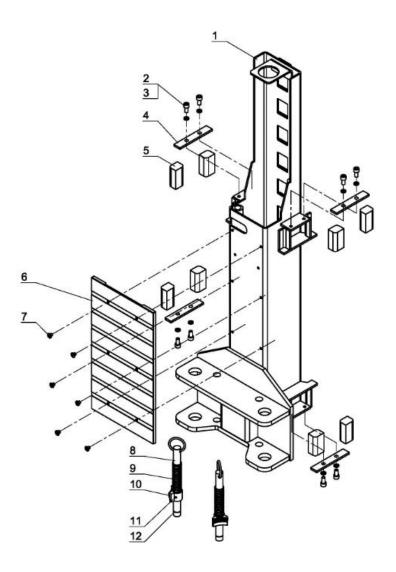
8.5 Cross beam assembly and parts list



STRATUS Clear Floor 2 post Lift Installation & Operation & Maintenance Instructions

No.	Name	Specification	Quantity	Remark
1	Slide wheel	ON-7224-A1-B2	6	
2	Composite bush 2516	SF-2Y	6	
3	Short shaft	ON-7214DTK/4.5-A10-	4	
4	Spacer sleeve 32	ON-7214DTK/4.5-A10-	4	
5	Shaft ring 25	GB/T 894.2	8	
6	30°cross beam I	ON-7214DTK/4.5-A10-	1	
7	Spacer sleeve 12	ON-7214DTK/4.5-A10-	8	
8	30°cross beam junction plate	ON-7214DTK/4.5-A9	2	Left & Right
9	Bolt M10×30	GB/T 5781	8	
10	Nut M10	GB/T 6170	8	
11	Flat washer 10	GB/T 95	8	
12	Spring washer 10	GB/T 93	8	
13	Bolt M5×10	GB/T 818	2	
14	Hole plate	ON-7214-A3-B1-C8	1	
15	Rod	ON-7214-A3-B7	1	
16	Foam sleeve	ON-7214-A3-B8	1	
17	Limit switch		1	
18	Hole plate 2	ON-7214-A3-B1-C9	1	
19	Bolt M8×25	GB/T 5781	1	
20	Locking nut M8	GB/T 889.1	1	
21	Bolt M6×16	GB/T 818	4	
22	Locking nut M6	GB/T 889.1	4	
23	Bolt M12×30	GB/T 5781	5	
24	Nut M12	GB/T 6170	5	
25	Flat washer 12	GB/T 95	5	
26	Spring washer 12	GB/T 93	5	
27	30°cross beam II	ON-7214DTK/4.5-A10-	1	
28	Sliding shaft	ON-7214ZK-A10-B4	2	

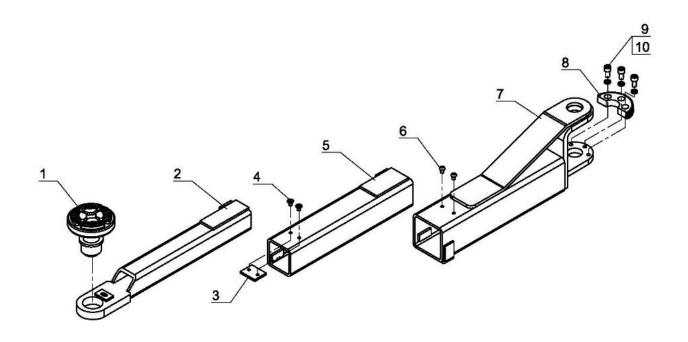
8.6 Lifting carriage and parts list



No.	Name	Specification	Quantity	Remark
1	30°Lifting carriage	ON-7214DTK/4.5-A3-B1	2	
2	Socket head screw M10×16	GB/T 70.1	16	
3	Spring washer 10	GB/T 93	16	
4	Slider pressure plate	ON-7224K-A3-B9	8	
5	Slider	ON-7224-A3-B6	16	
6	Door protection plastic pad	ON-7215DT-20-10-04	2	
7	Bolt M8×20	GB/T 819.1	12	
8	Pull rod	ON-7224-A3-B2	4	
9	Pressure spring	ON-7224-A3-B5	4	
10	Tooth piece	ON-7224-A3-B4	4	
11	Spring pin 5×35	GB/T 879.4	4	
12	Shaft ring 22	GB/T 894.2	4	

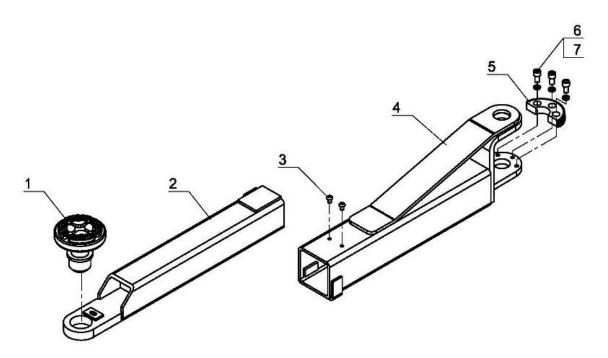
8.7 Arm assembly and parts list

1. Three stage arm assembly



No.	Name	Specification	Quantity	Remark
1	Screw adapter	ON-7224G-A7-B3	2	
2	Front arm	ON-7224K/4.5-A18-B3	2	
3	Orifice plate	ON-7224K/4.5-A18-B5	2	
4	Hexagon socket screw M8×8	GB/T 2673	4	
5	Middle arm	ON-7224K/4.5-A18-B2	2	
5	Hexagon socket screw M8x10	GB/T 70.2	4	
7	Rear arm	ON-7224K/4.5-A18-B1	2	
8	Tooth block	ON-7224-A7-B5	2	
9	Socket head screw M10×20	GB/T 70.1	6	
10	Spring washer 10	GB/T 93	6	

2. Two stage arm assembly



No.	Name	Specification	Quantity	Remark
1	Screw adapter	ON-7224G-A7-B3	2	
2	Front arm	ON-7224K/4.5-A7-B2	2	
3	Hexagon socket screw M8×10	GB/T 70.2	4	
4	Rear arm	ON-7224K/4.5-A7-B1	2	
5	Tooth block	ON-7224-A7-B5	2	
6	Socket head screw M10x20	GB/T 70.1	6	
7	Spring washer 10	GB/T 93	6	

9. Special notes

9.1 Environmental damage

Only appropriately trained personnel may dismantle and dispose of the unit.

9.2 Dismantling

To dismantle the product, proceed as follows:

ELECTRICAL HAZARD!

When carrying out any decommissioning and dismantling work on the unit, switch off all power supply connections, ensure they cannot be switched on unintentionally and verify that they have been disconnected. Earth and short-circuit them, and cover or otherwise isolate any neighboring live parts. Failure to do so may lead to serious injuries or death.

HIGH PRESSURE HAZARD.

When carrying out any unit decommissioning and dismantling work, close off and empty all the connection pipes until the pressure is the same as the ambient air pressure. Failure to do so may lead to injury.

Make sure that the hydraulic circuit has been switched off.

Close all hydraulic shut-off valves.

Disconnect all connections, making sure at the same time, that no operating materials escape, such as oil, refrigerant and water-glycol mixture.

Loosen the connection to the base.

PERSONAL INJURY!

Secure the unit against slipping.

The unit is ready for transporting.

It is important that all transport information is observed .

9.3 Disposal

A specialist company with the appropriate competence must dispose of the unit and individual components. This technical services department must ensure that:

- the components are separated according to material types
- that the operating materials are sorted and separated according to their properties.

ENVIRONMENTAL DAMAGE.

Dispose of all components and operating materials (such as oil, refrigerant and water-glycol mixture)

separately according to material and in line with local laws and environmental regulations.

9.4 Noise declaration

Sound power level: LWA<85dB

Accompanied uncertainly K=4 dB

This measurement made in according with EN ISO 3746:1995

Applied operating conditions are:

With the rated load, the pump motor rotate.

According the test report, the operating position have the max noise value, but the noise risk is not the obvious hazard of the lift and the noise value is not big more to hurt operator.

If the noise is higher than the value, the lift must be stopped and check the trouble and repair.

"The figure quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this can't be used reliably to determine weather or nor further precautions are required. Factors that influence the actual level of exposure of the workforce include the characteristics of the working room, the other source of noise etc. i.e. the number of the machines and other adjacent processes. Also the permissible exposure level can vary from country to country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk."