



# INSTALLATION & OPERATION MANUAL

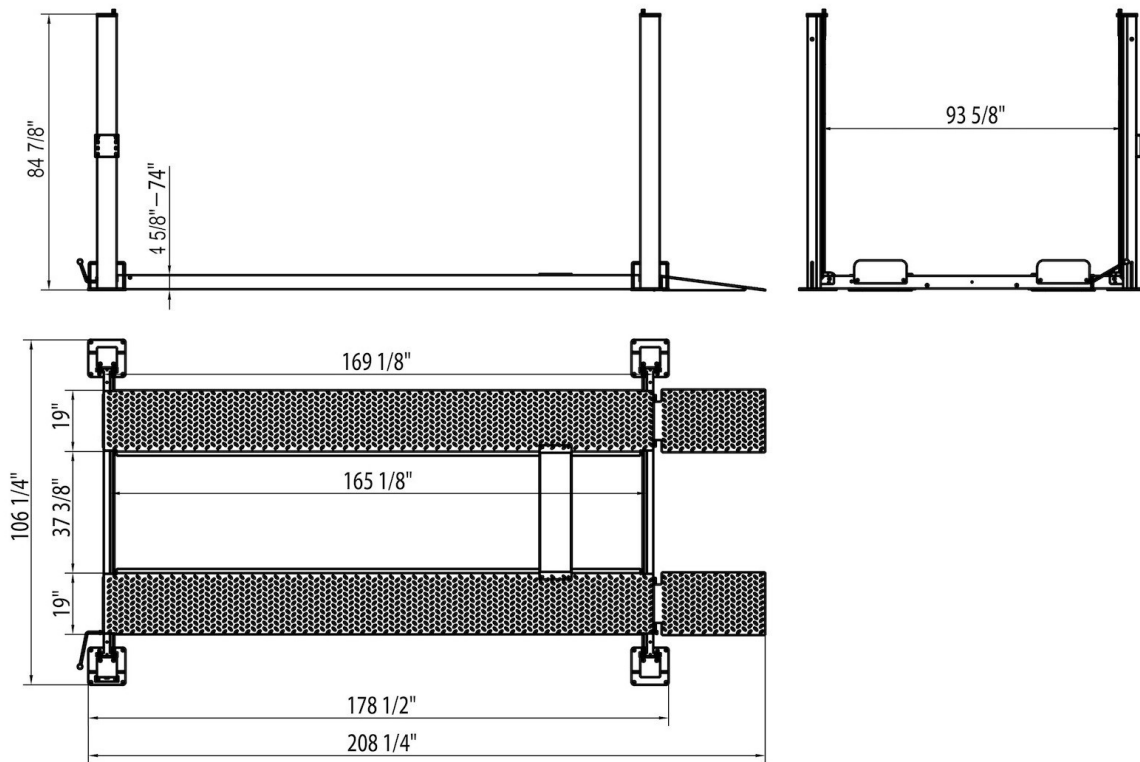
**APLUSLIFT HW-8S, HW-8SXL 4-Post Portable  
Storage Car Lift (8,000LB Capacity)**



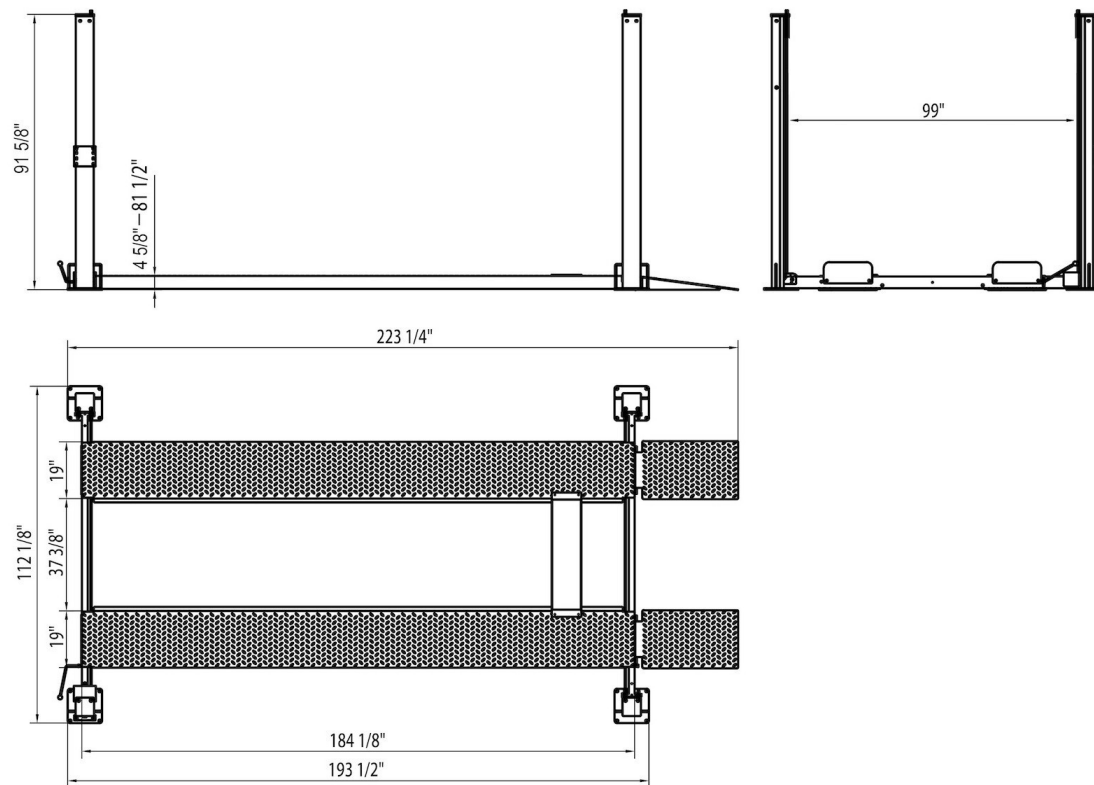
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# Specification and Features

- Dimensions:HW-8S (HW-8SXLT)
  - Overall Length: 175" (190")
  - Overall Height: 84" (94")
  - Overall Width: 106" (112")
  - Lifting Height: 72" (82")
  - Clearance Under Runway: 69" (77 1/2")
  - Width between Posts: 99" (105")
  - Drive Through Width: 93" (99")
  - Runway Size: 165"L x 18 1/2"W (180"L x 18 1/2"W)
  - Distance between Runways: 38" Inside-Inside, 75" Outside-Outside
  - Column Cross Section: 6"L x 4"W
  - Approach Ramps Size: 32"L x 18 1/2"W
- Shipping and Installation
  - Minimum Concrete Thickness: 4"
  - Shipping Weight: 1,750lbs (1850lbs)
  - Shipping package size: 166"L x 22"W x 30"H (186"L x 22"W x 30"H)
- Safety and Specs
  - Lifting Capacity: 8,000lbs
  - Runway Gauge Steel: 6
  - Lock Positions: 10
  - Usage: Parking/Storage/Service
  - Lifting Time: 40 seconds
  - Powder Coated Finish with Superior Corrosion Resistance
  - Caster Kit, Tool Tray, 3 Drip Trays, and 2 Approach Ramps Included
- Service
  - Motor: 110V Single Phase 1.5HP 10A (recommend a 30A breaker)
  - Hydraulic Oil: 3-5 gallons AW32 or AW46



HW-8S



HW-8SXLT

# Important Information

**READ THIS BEFORE INSTALLING THE LIFT! Improper installation can cause injury or damage!**

- Read this installation and operation manual in its entirety before attempting to install the lift. Manufacturer or distributor assumes no responsibility for loss or damage of any kind, expressed or implied, resulting from improper installation or use of this lift. Always use professional installation companies.
- All persons using the equipment must be responsible, qualified, and carefully follow the operation and safety guidelines contained in this manual.
- A level floor is required for proper lift installation and operation.
- DO NOT install this lift on any asphalt surface. Recommend on concrete surface a minimum of 4" thick and 3,500 psi tensile strength with steel or fiber mesh reinforcement.
- DO NOT install this lift over concrete expansion joints or cracks. (Check with your building architect)
- DO NOT install this lift on an upper floor without written authorization from your building architect. Should only be installed on a ground floor without a basement.
- DO NOT attempt to lift only part of a vehicle. This lift is intended to raise the entire body of a vehicle only.
- NEVER lift any persons or vehicles containing persons. This lift is designed to lift empty vehicles only.

## Recommended tools

- Rubber hammer
- Chalk line
- Sockets and open wrench set
- Ratchet driver
- Vise grips
- Tape measure
- Screwdrivers
- Torque wrench
- Two 10' to 12' step ladders
- 4' level
- 12" crescent wrench
- AW32 non-foaming hydraulic fluid (3-5 gallons) or AW46

# Installation Requirements

- Use proper lifting techniques when lifting individual pieces. Use plenty of help when moving lift pieces. Please wear work gloves to protect your hands.
- The lift should be installed on a leveled floor with a slope of less than 3 degrees.
- Do not install this lift on asphalt, wood, or any other surface other than described.
- Do not install this lift outdoors, the lift was designed for indoor use and is not built to be exposed to the outdoor elements.
- Do not install lift in a basement or on any level other than ground level (such as the second floor) without written authorization from your building engineer or architect.
- Maintain a 6" minimum distance from a slab edge. Do not install this lift over expansion joints or cracks. Check with your qualified engineer or architect.
- Leave spaces on all 4 sides when placing the lift. Recommended at least 2' distances on all 4 sides when a vehicle is loaded.
- Improper installation can cause damage or injury. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied, resulting from improper installation or use of this product.
- The lift is for lifting vehicles only. It is not designed to lift a person or an equipment with a person.
- Read this installation manual in its entirety before attempting to install this lift.
- Use of this lift should follow the operation and safety guidelines set forth in this manual.

# Installation Instructions

## Step 1 (Preparation)

- Please carefully remove all the parts from the package.
  - Keep the hardware from the shipping frame as they can be reused on the runways if needed.
  - Remove any loose cables, hoses, part boxes, hydraulic power unit, etc. if they are inside the columns or banded to the columns.
  - Remove the power unit box.
- Compare the parts with the part list (at the end of the manual) and contact APlusLift if there are any parts missing.
- Please read the installation requirements in previous pages for concrete requirement and layout. The area where the lift will be installed should be free of overhead obstructions such as heater, building support, or electrical lines.



## Step 2 (Setting up Columns and Rails)

- Lay out the columns (x4), tracks RUNWAY (x2), and cross rails (x2).
- Place the cross rails into the column, aligning the locks and the steps on the same side.
- Slide the cross rail to the lowest position. Release the lock rod to do so. Repeat these steps for each of the other columns.
- Place the runway across the cross rails, the lip should be resting on the cross rails, smooth part facing outwards.
- Install the runway hardware (large bolts (x8), flat washers, lock washers, nuts, and ramp hangers). If the runway bolts are not in the package, you may reuse the bolts from the shipping frame or contact us for new bolts.

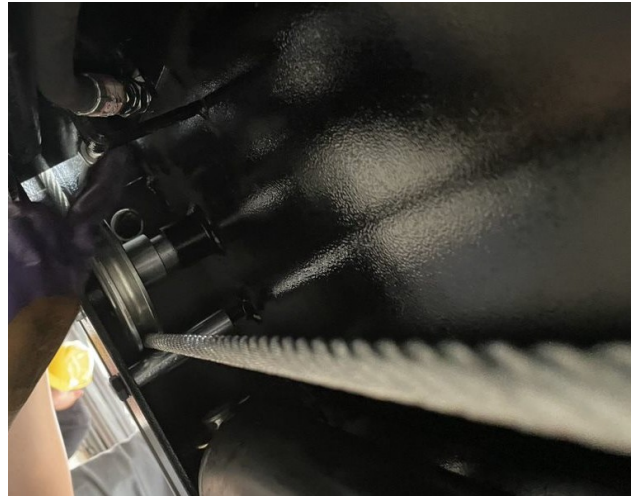
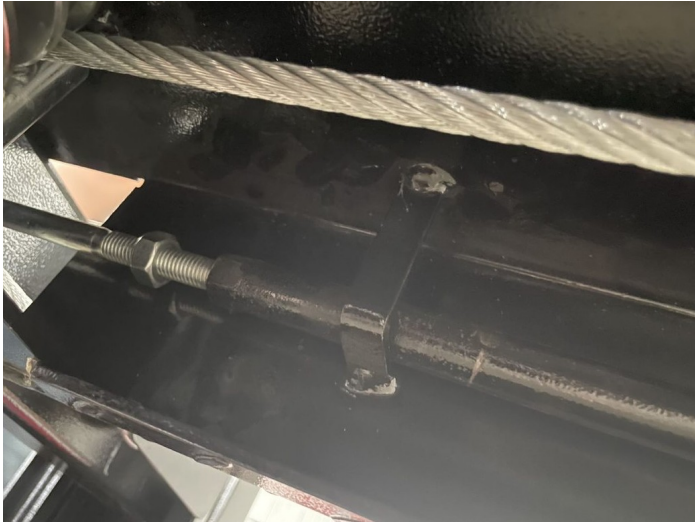


### Step 3 (Installing Cables)

- The cables come preinstalled in the runway along with the cylinder. Route the cables in a manner in such that the two rear cables are in the front of the terminal block and the front two corners are in the back of the terminal.
- Install the cables by running the ram manually by **pulling it out on the ram by hand**. Do not add hydraulic fluid yet as the ram will not be able to be operated manually once hydraulic fluid is added.
- Run cables through the pulleys on the cross rail and up towards the top of the columns where there is a termination point.
- Attach the front lock release.
- Connect the release T rod with the long rod under runway.







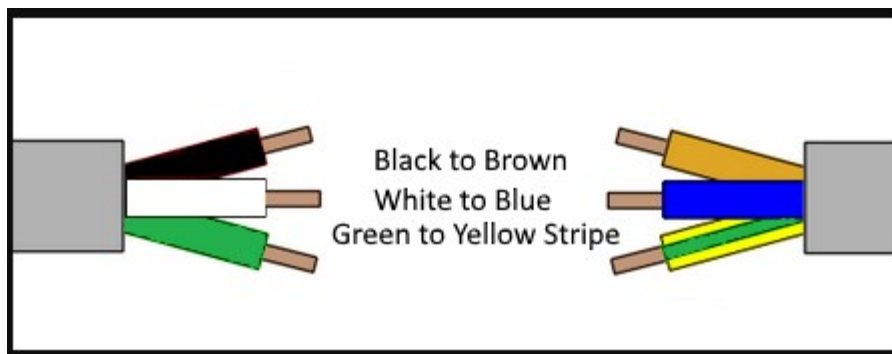
## Step 4 (Installing Power Unit)

- Hang the power unit mounting bracket.
- Install the hydraulic hose from the cylinder through the appropriate spot located on the runway.
- Connect the hydraulic hose to the power unit.
- Connect straight end into the runway fitting.
- Make sure all fittings are secure.



## Step 5 (Electrical Connection to Power Unit)

- **Warning: The wiring must comply with local code. Please find a certified electrician to connect the power unit to an 110V power outlet. Please protect each circuit with a time delay fuse or circuit breaker.**
- The car lift uses an 110V single phase power unit. The running amperage is 10A. Recommend a 30A breaker and a 10-gauge wire.
- For 110V single split phase with two hot wires:
  - wire brown to hot 1
  - wire blue to hot 2
  - wire yellow/green to ground
- For 110V power with one hot and one neutral wires:
  - wire brown to hot
  - wire blue to neutral
  - wire yellow/green to ground
- See the figure below for reference.



## **Step 6 (Final Steps)**

### **Hydraulic Fluid**

- Remove vent cap from the top of the reservoir. You are going to fill the tank with fluid. AW 32 or AW46 hydraulic oil is recommended. We do not recommend the transmission fluid as it is too thin. The unit will hold approximately 3-5 gallons of fluid.

### **Check Assembly**

- Check all bolts and nuts to make sure they are tight.
- Check all fittings for leaks

### **Test & Adjust Lift**

- With the power properly hooked up and hydraulic oil in the pump reservoir, push the push button on the side of the Motor to raise the carriages off the locks. Run the lift all the way up and down two more times to bleed all the air from the system.
- Remember not to over tighten cables – they should be firm, much like a banjo string or a fan belt in a car.

### **Bleed Air from Cylinders**

- Place a vehicle on the lift and raise until swivel pads are in contact with the frame of the vehicle. Raise the vehicle about 3 feet and then lower the vehicle until at the lowest position. Keep raising and lowering the vehicle a few times and increase the height each time until the vehicle completely reaches to the top. This procedure pumps all the air from the system.
- Lifting speed will be faster (be normal speed) after air is bled out.

**Please Check <https://www.apluslift.com/pages/faq> for Troubleshooting.**

**Please Check Operation, Safety, and Maintenance Before Use.**

# Operation

**Only authorized personnel can operate the lift. Please read operating and safety procedures carefully before operating the lift.**

- Maintain and inspect lift in accordance with the owner's manual. Never exceed the capacity.
- Do not operate a lift that is damaged or in need of repair.
- Allow only authorized persons in the lift area.
- Keep the lift area clear when raising or lowering the lift. **NO RIDERS.**
- Keep hands and feet away from pinch points at all times.
- Never override the lift's operating and safety controls.
- If a vehicle is suspected of falling, clear the area immediately.
- Do not rock the vehicle while positioned on the lift.
- **Always use safety jack stands when installing or removing parts from a vehicle.**

## Raising Lift

- Position the vehicle at the center of the platform. Check to make sure that the vehicle is secured.
- Press GREEN button to raise the vehicle.
- To rest the lift in standing position at the desired height by releasing GREEN button.
- Always ensure that the lift rests on the safety before any attempt is made to work on or near the vehicle.

## Lowering Lift

- Be sure the safety area is free of people and objects;
- Raise the lift a little bit by pushing GREEN button to clear off the safety lock;
- Press the release handle and at the same time also press unloading handle on the power unit to lower the lift.
- Lower the lift completely

# Safety

NEVER WORK UNDER OR NEAR THIS LIFT WITHOUT THE LOCKS BEING ENGAGED. THE POWER UNIT IS NOT DESIGNED TO BE A LOADING-HOLDING DEVICE. NOT USING THE LOCKS WILL RESULT IN A PREMATURE FAILURE TO THE CYLINDERS, PUMP, AND/OR CABLES AND CAN CAUSE SERIOUS PROPERTY DAMAGE OR PERSONAL INJURY! FAILURE TO HEED THIS WARNING WILL RESULT IN IMMEDIATE TERMINATION OF YOUR WARRANTY!

FAILURE TO PERFORM THE DAILY PRE-OPERATIONAL CHECK CAN RESULT IN EXPENSIVE PROPERTY DAMAGE, LOST PRODUCTION TIME, SERIOUS PERSONAL INJURY, AND EVEN DEATH. THE SAFETY LATCH SYSTEM MUST BE CHECKED TO BE WORKING PROPERLY BEFORE THE LIFT IS PUT TO USE.

NOTE: IT IS CUSTOMER'S OR USER'S RESPONSIBILITY TO MAINTAIN THE PROPER TENSION ON THE EQUALIZER CABLES. ASK A QUALIFIED TECHNICIAN TO MAINTAIN THE CABLE ADJUSTMENT AFTER THE LIFT IS INSTALLED.

IF AT ANY TIME YOU ARE NOT SURE HOW TO SAFELY OPERATE THE LIFT, STOP USING THE LIFT AND CALL YOUR DISTRIBUTOR FOR ASSISTANCE.

- **Lubrication.** Lubricate all nylon block corners inside each column with heavy duty bearing grease before the first operation and once every six months.
- **Concrete.** Check concrete for stress cracks daily in the first two weeks of use. After the first two weeks, check it monthly.
- **Bolts and Nuts.** Check all bolts and nuts every six months.
- **Hydraulic Oil.** The hydraulic oil should be changed once a year, along with cleaning the suction filter.
- **Safety Tips**
  - Never allow unauthorized persons to operate the lift. Thoroughly train new employees in the use and care of the lift.
  - Be aware that the power unit operates at high pressure.
  - Remove passengers before raising a vehicle.
  - Prohibit unauthorized persons from being in shop area while the lift is in use.
  - Total lift capacity is 8,000 lbs. Do not exceed the maximum weight capacity.
  - Before lifting the vehicle, walk around the lift and check for any objects that may interfere with the operation of the lift and safety latches such as tools, air hoses, and shop equipment.
  - When approaching the lift with a vehicle, make sure to place the center of the vehicle between the columns and center the tires on the tracks.
  - Slowly drive the vehicle between the columns. It is recommended to have someone outside the vehicle to guide the driver.
  - Always raise the vehicle about 3" and check for stability by rocking the vehicle.
  - Prior to lowering the vehicle, walk around the lift and check for any objects that might interfere with the operation of the lift and safety latches.
  - Always lower the lift to the lock position before going under the vehicle.
  - Never allow anyone to go under the lift when raising or lowering.

# Maintenance

The following periodic maintenance schedule is the minimum requirements at the minimum intervals. Periodic maintenance is to be performed on a daily, weekly, and yearly basis.

**WARNING!! OSHA AND ANSI REQUIRE USERS TO INSPECT LIFTING EQUIPMENT AT THE START OF EVERY SHIFT. THESE AND OTHER PERIODIC INSPECTIONS ARE THE USER'S RESPONSIBILITY.**

**FAILURE TO HEED THIS WARNING CAN RESULT IN PROPERTY DAMAGE, SERIOUS INJURY, OR DEATH. IF YOU HEAR A NOISE NOT ASSOCIATED WITH NORMAL LIFT OPERATION OR IF THERE ARE ANY INDICATIONS OF IMPENDING LIFT FAILURE, CEASE OPERATION IMMEDIATELY! INSPECT, CORRECT, AND/OR REPLACE PARTS AS NEEDED.**

## **Daily Pre-Operational Check (8-Hours)**

1. Check the safety lock audibly and visually while in operation
2. Check the safety latches for free movement and full engagement with the rack.
3. Check the hydraulic connections, and hoses for leakage.
4. Check the cable connection: cracks, bent, and looseness.
5. Check for frayed cables in both raised and lowered positions.
6. Check snap rings at all rollers and sheaves.
7. Check the bolts, nuts, and screws and tighten if needed.
8. Check the wiring & switches for damage.
9. Keep the base plate free of dirt, grease or any other corrosive substances.

## **Weekly Maintenance (every 40-Hours)**

1. Check the floor for stress cracks
2. Check the hydraulic oil level.
3. Check and tighten the bolts, nuts, and screws.
4. Check the cylinder pulley assembly for free movement or excessive wear on the cylinder yoke or pulley pin.
5. Check the cable pulley for free movement and excessive wear.

## **Yearly Maintenance**

Change the hydraulic fluid. It is an important maintenance procedure to keep the hydraulic fluid clean. No hard fast rules though. Operating temperature, type of service, contamination levels, filtration, and chemical composition of the fluid should be considered. If operating in a dusty environment a shorter interval may be required.

### **Special Maintenance Tasks (performed by a trained maintenance expert only)**

- Replace the hydraulic hoses.
- Replace the cables and sheaves.
- Replace or rebuild the cylinders.
- Replace or rebuild the pumps / motors.
- Checking of hydraulic cylinder rod and rod end (threads) for deformation or damage.

**CAUTION!** Relocating or changing components may cause problems. Each component in the system must be compatible. An undersized or restricted line may cause a drop in pressure. All valve, pump, and hose connections should be sealed and/or capped prior to use. Air hoses can be used to clean fittings and other components. However, the air supply must be filtered and dry to prevent contamination. Most important is cleanliness. Contamination is the most frequent cause of malfunction or failure of hydraulic equipment.





# Part List

No.	Parts	Qty	No.	Parts	Qty
1	Main Column	1	29	Connection rod of lock release HW-8S 3820mm HW-8SXLTL 4400mm	1
2	Power unit	1	30	Lock release handle	1
3	Hex bolts M8×25mm	4	31	Spacer 25mm	2
4	Flat washer M8	4	32	Hex nuts M12	4
5	Spring washer M8	4	33	Lock release thread rod	1
6	Hex nuts M8	4	34	Short lock release rod M6 HW-8S 132mm HW-8SXLTL 207mm	2
7	Hose fitting M14×1.5 / G1/4	1	35	Long lock release rod M6 HW-8S 2010mm HW-8SXLTL 2085mm	2
8	Hose to power unit 1690mm	1	36	Hex bolts M6×35	8
9	Secondary column oppose	1	37	Flat washer M6	8
10	Secondary column	2	38	Spring washer M6	8
11	Main runway	1	39	Hex nuts M6	16
12	Secondary runway	1	40	Castor kit frame	4
13	Cross beam assembly	2	41	Pin for part 40 180mm	4
14	Hex bolts M12×90	8	42	R shape pins 70mm	4
15	Hex nuts M12	8	43	Castors	4
16	Spring washer M12	8	44	Hex bolts M10×25	16
17	Flat washer M12	8	45	Flat washer M10	16
18	Ramps	2	46	Spring washer M10	16
19	Bracket for ramp	2	47	Hex nuts M10	16
20	Front stop 410×180mm	2	48	Jack tray	1
21	Rear stop 410×180mm	2	49	Oil Drip Tray	3
22	Pulley covers	4	50	Nylon sliders 180×60×45mm	8
23	Hex socket screws M8×16	8	51	Flat plate for nylon Sliders	
24	Flat washer M8	8	52	Hex socket screws M8×25	8
25	Spring washer M8	8	53	Flat washer M8	8
26	Cables (see next page)	4	54	Spring washer M8	8
27	Hex nuts M12	8	55	Angle fitting on runway G1/4 /G1/4	1
28	Flat washer M12	4	56	Hose under runway HW-8S 2010mm HW-8SXLTL 2200mm	1
			57	Power cord 10ft (not in diagram)	1



# Hydraulic/Cable System Part List

No.	Parts	Qty	No.	Parts	Qty
1	Cylinder	1	11	Washer M18	4
2	Cable plate 1 150×78mm	1	12	Runway pulley	6
3	Cable plate 2 150×70mm	1	13	Rolling deep groove ball bearings	6
4	Hex nut M24	1	14	Spring spacer	6
5	S pin 4×40mm	1	15	Pulley axle	4
6	Cable 1 HW-8S: 4070mm HW-8SXLT: 4360mm	1	16	Hex socket screws M8x???	6
7	Cable 2 HW-8S: 8110mm HW-8SXLT: 8860mm	1	17	Cross beam pulley	4
8	Cable 3 HW-8S: 2640mm HW-8SXLT: 2930mm	1	18	Bearing	4
9	Cable 4 HW-8S: 6680mm HW-8SXLT: 7430mm	1	19	Cross beam pulley pin	4
10	Hex nut M18	8			

# Limited Warranty

## Limited Two-Years Warranty

Songa Enterprises Inc (DBA APlusLift) offers a limited two-year warranty to the original purchaser of lifts and wheel service equipment in the United States and Canada. APlusLift will replace, without charge, any part found defective in materials or workmanship under normal use, for a period of two years after purchase. APlusLift offers free shipping of parts to the lower 48 states of the US. The purchaser is responsible for shipping charges to other states, countries, or territories. This warranty does not apply to equipment that has been improperly installed or altered or that has not been operated or maintained according to specifications.

### This warranty does not cover

- Parts needed for normal maintenance
- Wear parts, including but not limited to cables, slider blocks, rubber pads and pulleys
- Replacement of lift and tire changer cylinders after the first 30 days. A seal kit and installation instructions will be sent for repairs thereafter.
- On-site labor

Upon receipt, the purchaser must visually inspect the equipment for any potential freight damage before signing clear on the shipping receipt. Freight damage is not considered a warranty issue and therefore must be noted for any potential recovery with the shipping company.

The customer is required to notify APlusLift of any missing parts within 30 days. Missing power units and/or motors must be reported at time of delivery. APlusLift will replace any defective part under warranty at no charge as soon as such parts become available. Anything reported after three days of receipt will be replaced or returned to us at the purchaser's expense.

APlusLift reserves the right to make improvements and/or design changes to its lifts without any obligation to previously sold, assembled, or fabricated equipment.

There is no other express warranty on the APlusLift lifts and this warranty is exclusive of and in lieu of all other warranties, expressed or implied, including all warranties of merchantability and fitness for a particular purpose. To the fullest extent allowed by law, APlusLift shall not be liable for loss of use, cost of cover, lost profits, inconvenience, lost time, commercial loss or other incidental or consequential damages.

This Limited Warranty is granted to the original purchaser only and is not transferable or assignable.

Some states do not allow exclusion or limitation of consequential damages or how long an implied warranty lasts, so the above limitations and exclusions may not apply. This warranty gives you specific legal rights and you may have other rights, which may vary from state to state.