

IMPORTANT: READ THIS MANUAL COMPLETELY BEFORE INSTALLING or OPERATING LIFT

GENERAL SPECIFICATIONS

See Figure 1	EQ12
A Rise Height (Screw Pads Highest Position)	75 15/16" (1928 mm)
B Overall Height	13'-10"/14'-7" (4216 mm/4445 mm)
C Overall Width	139 3/4" (3550 mm)
D Drive-Thru Clearance	103" (2616 mm)
E Floor to Overhead Switch	13'-3 ½"/14'-½" (4051mm/4280 mm)
F Minimum Arm Reach	35 3/4" (910 mm)
G Maximum Arm Reach	54 1/2" (1386 mm)
H Screw Pad Height	4 7/8" (124mm)
K Inside of Columns	115" (2921 mm)
Lifting Capacity *	12,000 lbs.
(Hydraulic Pressure at Cap.)	(2600 psi)
Ceiling Height Required	167"/176" (4242mm/4470mm)
Motor	2HP, Single Phase, 60Hz
Voltage	208-230
Speed of Rise **	61 seconds
Max Load Per Arm	3000 lbs. (1360 kg)
Lift Approximate Weight	2150 lbs.

* Lift capacity ratings are based on loads equally distributed on all four arms.

** Lifting and lowering speeds may vary depending on the weight of the vehicle.

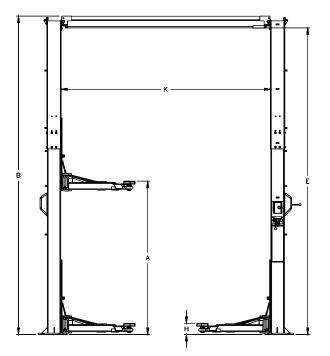


Fig 1a - General Specifications

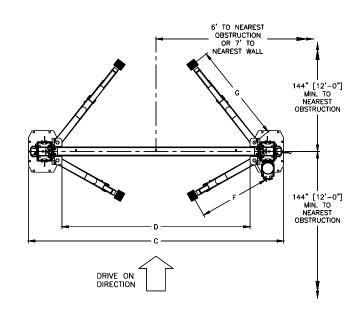


Fig1b - Service Bay Layout

VERTICAL CLEARANCE

Check the height of the area where the lift is to be installed. Clearance should be calculated based on the full raised height of the lift.



Failure by purchaser to provide adequate clearance could result in unsatisfactory lift performance, property damage, or personal injury.

FLOORING

Be certain you have the proper concrete floor to properly handle the loaded lift. Floor should be in generally good condition with no large cracks, spalling or deterioration.

Minimum requirements for concrete are 4 minimum inches depth. with steel reinforcement, 3500 psi, cured for 28 days per local commercial practice. Floor should be level within 3/8 inch over the installation area. No anchors should be installed within 8 inches of any crack, edge, or expansion joint. If these conditions cannot be met, a pad may be poured to accommodate the lift.

Check with local building inspectors and/or permits office for any special instructions or approvals required for your installation.

A qualified person should be consulted to address seismic loads and other local or state requirements.



Failure by purchaser to provide the recommended mounting surface could

result in unsatisfactory lift performance, property damage, or personal injury.

LOCATION

This lift has been evaluated for indoor use only with an operating ambient temp. range of 5 -40°C (41–104°F)

ELECTRICAL REQUIREMENTS

For lift installation and operation, it is necessary to have a dedicated circuit with circuit breaker or time delay fuse. Refer to wiring diagram for circuit sizing.

SAFETY NOTICES AND DECALS

For your safety, and the safety of others, read and understand all of the safety notices and decals included here.

READ ENTIRE MANUAL BEFORE ASSEMBLING, INSTALLING, OPERATING, OR SERVICING THIS EQUIPMENT.

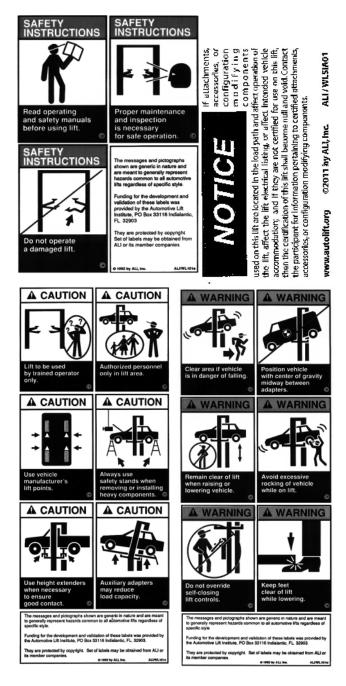
PROPER MAINTENANCE AND INSPECTION IS NECESSARY FOR SAFE OPERATION. DO NOT OPERATE A DAMAGED LIFT.

Safety decals similar to those shown here are found on a properly installed lift. Be sure that all safety decals have been correctly installed on the columns as described in this installation manual. Verify that all authorized operators know the location of these decals and fully understand their meaning. Replace worn, faded, or damaged decals promptly.



Do not attempt to raise a vehicle on the lift until the lift has been correctly

installed and adjusted as described in this manual.



RECEIVING

The shipment should be thoroughly inspected as soon as it is received. The signed bill of lading is acknowledgement by the carrier of receipt in good condition of shipment covered by our invoice.

If any of the goods called for on this bill of lading are shorted or damaged, do not accept them until the carrier makes a notation on the freight bill of the shorted or damaged goods. Do this for your own protection.

NOTIFY **Snap-On Equipment Customer Service** AT ONCE if any hidden loss or damage is discovered after receipt.

IT IS DIFFICULT TO COLLECT FOR LOSS OR DAMAGE AFTER YOU HAVE GIVEN THE CARRIER A CLEAR RECEIPT.

File your claim with **Snap-On Equipment** promptly. Support your claim with copies of the bill of lading, freight bill, and photographs, if available.

Component Packing List

QTY/ LIFT	DESCRIPTION
1	Power Column Assembly
1	Idler Column Assembly
1	Overhead Assembly
1	Hardware Box
2	Column Extension
4	Arm Assemblies
2	Synchronizer Cable Assembly
1	Hydraulic Hose Pack
2	Lock Cover

Edition of Standards Referenced

Where any ANSI standard is referenced within this manual, the most recent edition approved by the American National Standards Institute, Inc. shall apply.

INSTALLATION

SAFETY REQUIREMENTS FOR INSTALLATION AND SERVICE

Refer to ANSI/ALI ALIS (current edition)

IMPORTANT: Always wear safety glasses while installing lift.

TOOLS (MINIMUM REQUIRED)

- a. Tape measure, 16ft
- b. Chalk line
- c. 4ft level
- d. 10" adjustable wrench
- e. Metric open end wrenches 10mm, 13mm, 14mm, 15mm, 17mm, 18mm, 19mm and 24mm
- f. Metric Allen Wrenches 4mm, 5mm, 6mm, and 8mm.
- g. Needle Nose pliers
- h. Snap Ring pliers
- i. Hammer drill with 3/4" diameter carbide tipped bits
- j. 2lb hammer
- k. Torque wrench: 150 foot pounds minimum with 1 1/8" socket
- I. 12 ft. Step ladder
- m. Anti-Seize lubricant (for arm pins and foot pad screw threads and stop rings)

LAYOUT

- Layout the service bay according to the architect's plans or owners instructions (see *Fig 1b*). Failure to install in this orientation can result in personal and property damage. Be certain that the proper conditions exist, see page 3.
- Attach bolt-on parts to column extensions as shown in Fig. 5 and assemble to columns using M12 x 30 Hex bolts. Ensure power extension assembly is bolted to power column. NOTE: Install Nut and Washers on exterior of the assembly
- Using the Overall Width (C) Dimension from Fig. 1, chalk two parallel lines on the floor within 1/8" tolerance. Erect both column assemblies. Align the base plate edges to the chalk lines.

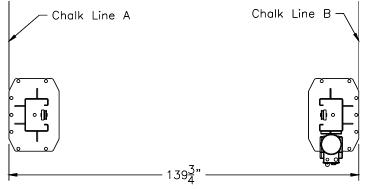


Fig. 2 – Column Layout

Anchoring

Note:

- The anchor bolts must be installed at least 8" from any crack, edge, or expansion joint. Recheck the area around both base plates.
- Use a concrete hammer drill with a 3/4-inch carbide bit. Tip diameter should conform to ANSI Standard B212.15 (.775 to .787). Do not use excessively worn bits or bits which have been incorrectly sharpened. A core bit may be necessary if an obstruction is encountered. Never substitute with shorter anchor.
- 4) Recheck "Inside of Columns" dimension (**Fig. 1**).
- 5) Using the base plate as a template, drill one anchor hole. Drill through the floor if possible or to a depth of 5 inches minimum.
- 6) Clean the hole inside and out.
- Assemble a washer and nut to the anchor with nut just below impact section of bolt. Drive the anchor into the hole until the nut is 3/4" above the baseplate (leaving room for shims).

Complete steps 5 thru 7 for the seven (7) anchors (one at a time) around each column.

- 8) Shim both columns to plumb using the shims provided as shown in Fig. 5. DO NOT shim more than 1/2" at any given point. Use a level no less than 24" in length to plumb columns.
- 9) Drive all the anchors until nut and washer contact baseplate.

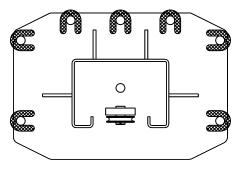


Fig. 3 – Column Shimming

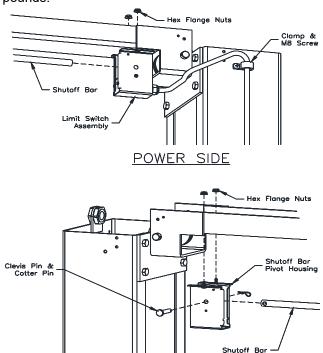
- 10) Tighten power column anchors and recheck column for plumb. Re-shim if necessary. Torque to 150 foot-pounds to set anchors.
- 11) Loosen Idler Column anchors 1/8" and proceed with the Overhead Beam installation.

OVERHEAD/ LIMIT SWITCH

- 12) Raise and install Overhead Assembly using M12 x 30 Hex Bolts.
- 13) Install Overhead Limit Switch under the Overhead Assembly on the Power Side.

Route cable around outside of column as shown in **Fig 4.**

14) Check idler column shimming. Use additional shims (*see Fig 3*) to remove any gaps that may have been created while installing overhead beam. Tighten anchor bolts and recheck column for plumb. Torque to 150 footpounds.



IDLER SIDE

Fig. 4 - Limit Switch

SYNCHRONIZER CABLES

- 15) Manually raise each carriage into the second lock position.
- 16) **IMPORTANT**: Ensure that the lock pawl is engaged by attempting to manually disengage it. When properly engaged, the weight of the carriage will prevent it from moving.
- 17) At the upper beam sheave locations disassemble and reassemble the cable trapping rod to install the cable onto the sheave, See Fig 5. To install the cable bottom sheave will need to be removed then reassembled.

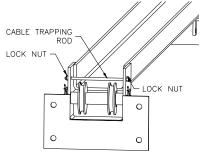
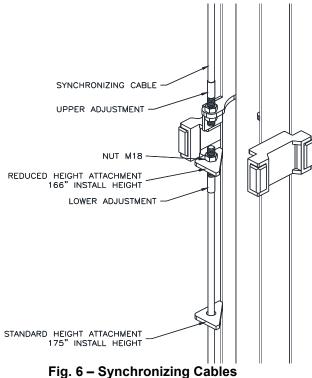


Fig. 5-Cable Trapping

- 18) Attach one end of synchronizing cable to carriage. See **Fig 6** for proper attachment.
- 19) Route cable up and over sheave in overhead. Follow across to other sheave on opposite column. Route down through carriage to sheave in bottom of column. Route under sheave and up to cable attachment. Lower attachment point is used for Standard Height Installation (175") and the Upper attachment point is used for Reduced Height Installation (166"). Use **Fig 6** for proper attachment.
- 20) Repeat for opposite side.



Power Unit & Hydraulic Lines

- 21) Mount Power Unit to power column as shown in **Fig. 7** using (4) M8 hex bolts and nuts.
- 22) Attach Hydraulic elbow fitting threading the O-Ring end into the power unit.
- 23) IMPORTANT To ensure proper hose fitting seal without damage to the fitting follow this procedure for each hose connection: Screw flared fitting on finger tight. Rotate flared fitting 1 ½ flats or 90 degrees. Back the flared fitting off one full turn and repeat.
- 24) Thread power unit hose (short) to o-ring elbow on power unit.
- 25) Beginning on the idler side, attach the idler extension hose to the cylinder elbow fitting (this hose is not needed for reduced height installations). Continue with the idler hose (long) up the backside of the column and through the plastic guide at the top of the column extension. Continue across the

overhead through each of the guides as shown in **Fig 8** and down the backside of the power column.

26) Route the power hose from the power side cylinder elbow fitting up to the union tee provided. Connect idler hose and power unit hose to the union tee as shown in **Fig 7**.

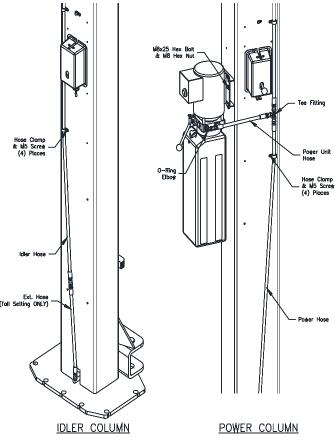
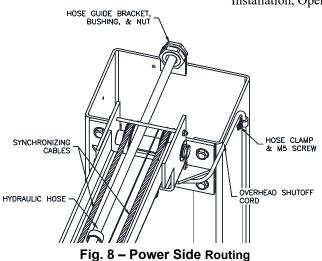


Fig. 7 – Hose Routing

27) BE CERTAIN ALL FITTINGS AND CONNECTIONS ARE TIGHT. IT IS THE INSTALLERS RESPONSIBILITY TO ENSURE SYSTEM IS LEAK-FREE. Fill the Power Unit with three gallons of clean 10wt anti-foam anti-rust hydraulic oil or Dexron III ATF. DO NOT USE OILS WITH DETERGENTS.

COLUMN EXTENSIONS

28) Hoses, cables, and limit switch cord should be routed as shown in Fig 8 for power side column extension. Route lines for the idler side using the hose guide bracket and idler side pulley bracket.



LOCK RELEASE

- 29) Install Lock Release Rod, Clevis, and Knob to the Power Column Lock using one M10 Nut.
- 30) Attach Mechanical Lock Release Cable Assembly to each lock pawl. See **Fig 9.**

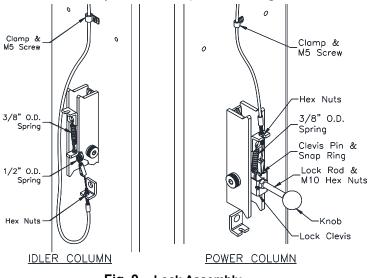


Fig. 9 – Lock Assembly

31) Secure Lock Release Cable at the top of each column extension as shown in **Fig 10**. Lock Release Cable should be routed on the opposite side of the Overhead Beam as the Idler Hose to prevent interference.

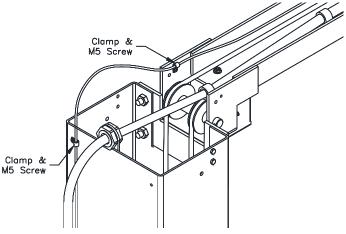


Fig. 10 – Lock Cable Routing

THE LOCK RELEASE CABLE ADJUSTMENT IS NOT COMPLETE UNTIL THE LIFT HAS BEEN LOWERED AND "FINAL ADJUSTMENTS" HAVE BEEN MADE.

ARM INSTALLATION

32) Lubricate the arm pin or carriage arm pin hole with "anti-seize" and install the arms as shown in **Fig 11.** Once the set screw is finger tight against the arm pin, tighten 1/4 turn with allen wrench.

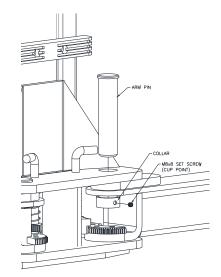


Fig. 11 –Arm Install

33) Ensure that the arm restraint gears engage and disengage properly. Arm restraints should disengage when lift is fully lowered. If any binding occurs, ensure that the large gear mounted to the arm has been factory installed tight against the arm pin.

34) Ensure arm stop hardware is present and adequately tightened so that spring lock washer is fully compressed for each arm. Check arm stop engagement by fully extending each arm. Properly installed arm stop hardware will prevent arm from becoming over- extended and possibly disassembled.

WARNING

Loose or missing arm stop hardware may result in personal injury and/or property damage.

35) Extend the footpad to both extents and apply anti-seize to the three retaining rings and where the double screw makes contact with the base of the footpad.

ELECTRICAL

36) Refer to **Fig 13 Wiring Diagram** for all steps under this heading.

Single Phase

- 37) Connect the Overhead Limit Switch Cord to Power Unit as shown.
- 38) Connect Power Unit to suitable electrical source as shown.

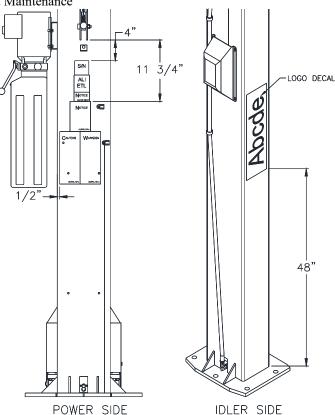
Three Phase

- Power unit is factory wired for 240 volt. Refer to wiring diagram or motor plate for optional voltages.
- 40) Connect Contactor Enclosure to column. Mounting hardware should be centered on the column side to side to avoid the path of the slide blocks.
- 41) Connect Overhead Limit Switch Cord to Contactor as shown.
- 42) Connect Contactor to Power unit as shown. Connect Contactor to suitable electrical source as shown.

IMPORTANT: AFTER WIRING HAS BEEN COMPLETED, TEST OPERATION OF POWER UNIT & OVERHEAD LIMIT SWITCH. WHILE RAISING LIFT, OPERATE OVERHEAD SHUTOFF BAR. POWER UNIT MOTOR SHOULD STOP WHEN SHUTOFF BAR IS RAISED.

COLUMN DECAL PLACEMENT

- 43) Clean the surface of the columns before placing the decals.
- 44) Apply the Safety Decals (Pg. 3) 48" above the base plate on the power column and the Logo Decal 48" above the base plate on the idler column. **Fig. 12**.





FINAL ADJUSTMENTS

HYDRAULICS

- 45) Lower the lift to the floor and raise the lift approximately one foot.
- 46) Start with Idler side first. Slowly and carefully loosen the bleed plug on top side of the cylinder just enough to allow the entrapped air to escape. Repeat for power side.
- 47) Raise lift 6 inches. Repeat step 46 until no air comes out of cylinder.
- 48) Pressure test hydraulic system. Energize power unit, raise lift to full rise and continue to run motor for additional 10 seconds. (NOTE: pressure relief will make a high pitch squeal sound for these 10 seconds.) Check hydraulic system for leaks.
- 49) Energize power unit again for 10 seconds. With a clean rag, wipe down both cylinder rods. (The cylinders are shipped with a small amount of clear anti-corosive lubricant that will be forced out through the wiper when the lift reaches full rise.) If lubricant is not wiped clean from the cylinder rod, the cylinder will apear to be leaking.

SYNCHRONIZING CABLES

- 50) Raise lift and ensure carriages lower into same lock position.
- 51) Adjust synchronizing cables so the tension is equal in both cables and carriages are firmly sitting on locks.
- 52) Cycle lift to ensure that latches operate simultaneously.

LOCK RELEASE CABLE

- 53) Raise lift to a lock position but don't set into the lock. Pull and release Power Column lock release handle while watching Idler Column lock. Adjust Cable tension by removing slack and retightening cable clamp at the power side. **IMPORTANT:** IF IDLER SIDE LOCK PAWL DOES NOT FULLY DISENGAGE, DAMAGE MAY RESULT TO IDLER SIDE CARRIAGE AND OR CABLE SYNCHRONIZING SYSTEM.
- 54) Tighten and trim wire ties.
- 55) Remove lock release knob and install both covers. Replace lock release knob.

FINAL CHECKOUT PROCEDURE

- 56) Demonstrate the operation of the lift to the owner/operator and review correct and safe lifting procedures using the <u>Lifting It Right</u> booklet as a guide.
- 57) Return all provided literature (including this manual) to the literature pack envelope and deliver the envelope to the owner/operator/employer.
- 58) Complete the online warranty registration (refer to the included warranty statement).

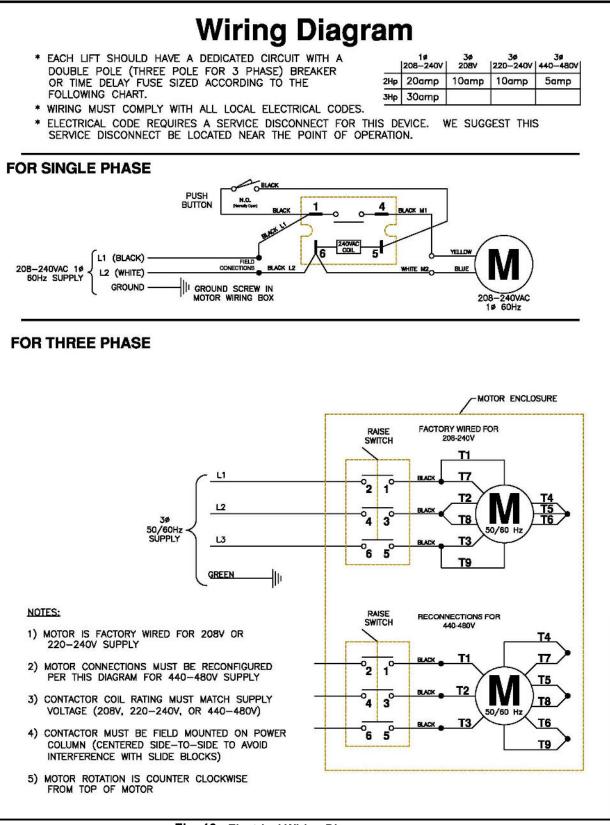


Fig. 13 – Electrical Wiring Diagram

OPERATION PROCEDURE

SAFETY NOTICES AND DECALS

This product is furnished with graphic safety warning labels, which are reproduced on page 3 of these instructions. Do not remove or deface these warning labels or allow them to be removed or defaced. For your safety, and the safety of others, read and understand all of the safety notices and decals included.

OWNER/EMPLOYER RESPONSIBILITIES

This lift has been designed and constructed according to ANSI/ALI ALCTV standard. The standard applies to lift manufacturers, as well as to owners and employers. The owner/employer's responsibilities as prescribed by ANSI/ALI ALOIM, are summarized below. For exact wording refer to the actual standard provided with this manual in the literature pack.

The Owner/Employer shall ensure that lift operators are qualified and that they are trained in the safe use and operation of the lift using the manufacturer's operating instructions; ALI/SM, *ALI Lifting it Right safety manual*; ALI/ST, *ALI Safety Tips card*; ANSI/ALI ALOIM, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; ALI/WL Series, *ALI Uniform Warning Label Decals/Placards*; and in case of frame engaging lifts, ALI/LP-GUIDE, *Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts*.

The Owner/Employer shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; and the employer shall ensure that the lift inspectors are qualified and that they are adequately trained in the inspection of the lift.

The Owner/Employer shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; and the employer shall ensure that the lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.

The Owner/Employer shall maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance.

The Owner/Employer shall display the lift manufacturer's operating instructions; ALI/SM, *ALI Lifting it Right safety manual*; ALI/ST, *ALI Safety Tips card*; ANSI/ALI ALOIM, *American* National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and in the case of frame engaging lift, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts; in a conspicuous location in the lift area convenient to the operator.

IMPORTANT SAFETY INSTRUCTIONS

When using your garage equipment, basic safety precautions should always be followed, including the following:

- 1. Read all instructions.
- 2. Care must be taken as burns can occur from touching hot parts.
- 3. To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).
- 4. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
- 5. Use only as described in this manual. Use only manufacturer's recommended attachments.
- 6. ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.

SAVE THESE INSTRUCTION

Installation, Operation and Maintenance

LIFTING A VEHICLE

- 1) Ensure that the lifting arms are parked, out to full drive thru position.
- 2) Position the vehicle in the service bay so that the vehicle's center of gravity is on a line between the two columns, and so the vehicle is centered between the two columns.

DO NOT EXCEED 3000 POUNDS PER ARM.

DO NOT ATTEMPT TO LIFT THE VEHICLE WITH ONLY TWO ARMS, AS THIS WILL VOID THE WARRANTY

ENSURE THAT THE HIGHEST POINT ON THE VEHICLE WILL CONTACT THE OVERHEAD LIMIT SWITCH BAR.

DO NOT PLACE THE VEHICLE IN THE SERVICE BAY BACKWARDS.

REFER TO THE VEHICLE MANUFACTURERS SERVICE MANUAL, TECHNICAL BULLETINS, "VEHICLE LIFTING POINTS GUIDE" (ALI/LP-GUIDE) OR OTHER PUBLICATIONS TO LOCATE THE RECOMMENDED LIFTING POINTS.

3) Position the arms and adapters so all four pads contact the vehicle simultaneously.

The vehicle should remain level during lifting.

- 4) Raise the lift until all four wheels are off the ground. Test the stability of the vehicle by attempting to rock the vehicle. Check adapters for secure contact with vehicle lift points. If the vehicle seems unstable, lower the lift and readjust the arms. If the vehicle is stable, raise the vehicle to a height a few inches above the desired working height.
- 5) Lower the vehicle until the safety latches on both columns engage. The vehicle should remain level when both latches are engaged. If one side engages and the other continues to descend, stop lowering the vehicle, raise it several inches, and try again to engage both latches.

Always lower lift into locks before entering the area beneath the vehicle.

Always use safety stands when removing or installing heavy components.

LOWERING A VEHICLE

- 1) Ensure that the area under the vehicle is clear of personnel and tools.
- 2) Raise the vehicle until both locks are free.
- 3) Disengage the locks by pulling and holding the lock release lever.
- 4) Lower the vehicle by depressing the lowering valve handle.
- 5) Continue to lower the vehicle until the carriages stop against the base plate. Retract the extension arms, and park them.

LOSS OF POWER

If for any reason the lift will not rise off the locks or the locks will not retract, consult factory authorized personnel.

DO NOT OVERRIDE ANY SAFETY FEATURE IN AN ATTEMPT TO LOWER THE LIFT.

MAINTENANCE

To avoid personal injury, permit only qualified personnel to perform maintenance on this equipment. Maintenance personnel should follow lockout/tagout instructions per ANSI Z244.1.

The following maintenance points are suggested as the basis of a routine maintenance program. The actual maintenance program should be tailored to the installation and include a record of each planned maintenance activity and repair maintenance activity performed. Refer to the maintenance section of the ANSI/ALI ALOIM booklet (blue book) provided with the lift.

- If lift stops short of full rise or chatters, check fluid level and bleed both cylinders per Installation Instructions.
- Replace all Safety, Warning or Caution Labels if missing or damaged (*See Installation instructions page 3.*)

Daily

- Keep lift components clean.
- Check for loose or broken parts.
- Check hydraulic system for fluid leaks.
- Check arm stop hardware and engagement by fully extending each arm. If arm stop hardware is loose, tighten hardware until spring lock washer is fully compressed.
- Check adapters for damage or excessive wear. Replace as required with genuine Snap-On Equipment parts.
- Check lock release activation. When properly adjusted, the idler column lock should rest firmly against the back of the column when engaged and pull clear of the column back when disengaged.

Weekly

- Check synchronizer cables and sheaves for wear. Replace as required with genuine Snap-On Equipment parts.
- Check lock release cable adjustment per Installation Instructions step 50.

IMPORTANT: IF IDLER SIDE LOCK PAWL DOES NOT FULLY DISENGAGE, DAMAGE MAY RESULT TO IDLER SIDE CARRIAGE AND OR CABLE SYNCHRONIZING SYSTEM.

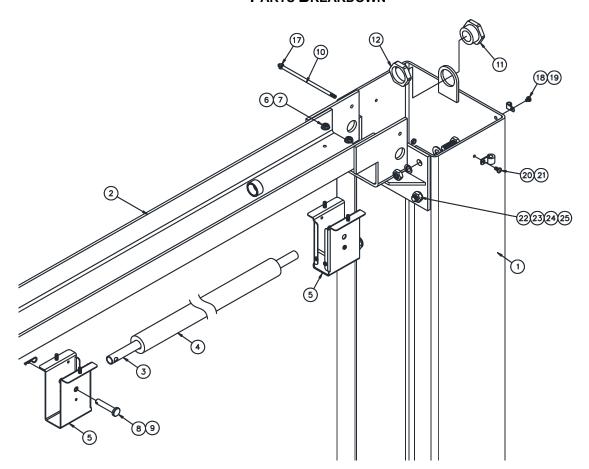
 Check synchronizer cable tension per Installation Instructions. Adjust if necessary.

Monthly

- Torque concrete anchor bolts to 80 ft-lbs.
- Check overhead shutoff switch. While raising lift, operate overhead shutoff bar. Power Unit motor should stop when bar is raised.
- Lubricate carriage slide tracks with heavy viscous grease. (Grease all (4) corners of both columns.)
- Visually inspect concrete floor for cracks and/or spalls within 12" of base plate

If any problems are encountered, contact your local service representative.

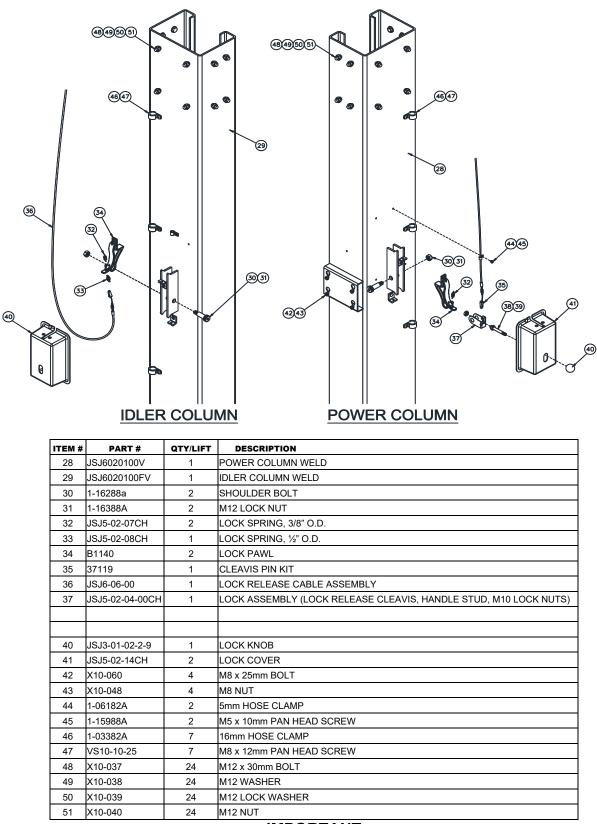
Model EQ12 Installation, Operation and Maintenance **PARTS BREAKDOWN**



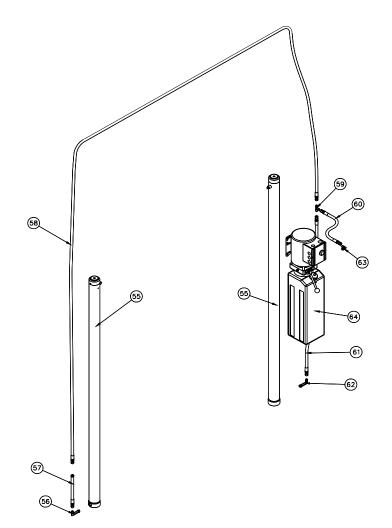
ITEM #	PART #	QTY/LIFT	DESCRIPTION	
1	JSJ6020200V	2	COLUMN EXTENSION	
2	JSJ6-03-01-00V	1	OVERHEAD WELD	
3	JSJ6-03-02	1	OVERHEAD SHUT OFF BAR	
4	JSJ5-03-03	1	OVERHEAD SHUT OFF BAR CUSHION	
5	B2064-V	1	LIMIT SWITCH PACKAGE	
5	D2004-V	I	(INCLUDES SWITCH w/ CORD, BOTH BRACKETS, & ITEMS 6-9)	
6	2065-3	4	M6 x 14mm PHILLIPS PAN HEAD SCREW	
7	2065-4	4	M6 SERRATED FLANGE HEX NUT	
8	2065-5	1	CLEVIS PIN 10mm x 55 Lg.	
9	GJY12-3	1	HAIRPIN COTTER	
10	JSJ5-03-07ch	2	CABLE TRAPPING ROD	
11	JSJ4-02-17	2	HOSE GUIDE	
12	JSJ4-02-18	2	HOSE GUIDE NUT	
18	1-05082A	2	5mm HOSE CLAMP	
19	X10-065	2	M5 x 10mm PAN HEAD SCREW	
20	1-03382A	5	16mm HOSE CLAMP	
21	VS10-10-25	5	M8 x 12mm PAN HEAD SCREW	
22	X10-037	8	M12 x 30mm BOLT	
23	X10-038	8	M12 WASHER	
24	X10-039	8	M12 LOCK WASHER	
25	X10-040	8	M12 HEX NUT	

IMPORTANT

Model EQ12 Installation, Operation and Maintenance



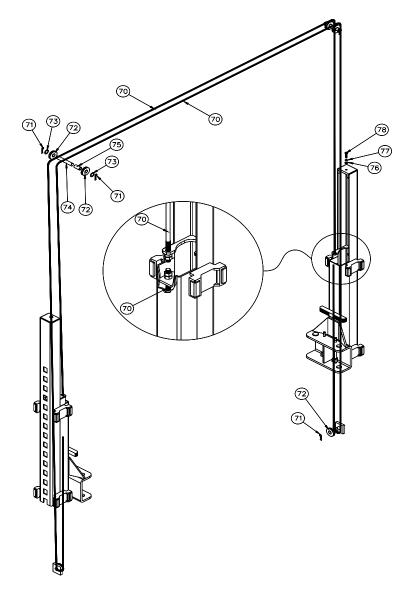
IMPORTANT



ITEM #	PART #	QTY/LIFT	DESCRIPTION
55	JSJ6-07-00	2	HYDRAULIC CYLINDER
56	JSJ6-21	1	5/8-18 UN 90 DEGREE ELBOW
57	JSJ6-20	1	5/8-18 UN HOSE EXTENSION (18 1/2" LONG) (Std. Height)
58	JSJ6-18	1	5/8-18 UN HOSE (411" LONG)
59	JSJ6-15	1	9/16-18 UN x 9/16-18 UN x 5/8-18 UN TEE FITTING
60	JSJ5-17	1	9/16-18 UN POWER UNIT HOSE
61	JSJ4-16	1	9/16-18 UN POWER CYLINDER HOSE
62	JSJ6-19	1	9/16-18 UN 90 DEGREE ELBOW
63	X10-044	1	O-RING x 9/16-18 UN 90 DEGREE ELBOW
64	AB-9367-DLH	1	POWER UNIT

IMPORTANT

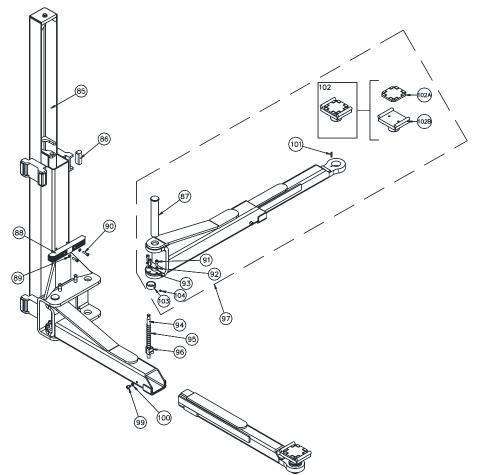
Model EQ12 Installation, Operation and Maintenance



ITEM #	PART #	QTY/LIFT	DESCRIPTION	
70	JSJ6-04-00	2	SYNCHRONIZER CABLE (Std. Height)	
71	GJY12-3	6	HAIRPIN COTTER PIN	
72	JSJ6-03-08	6	CABLE SHEAVE	
73	X10-055	4	26mm WASHER	
74	JSJ6-03-03	2	CABLE SHEAVE PIN	
75	JSJ6-03-05	2	SHEAVE SPACER	
76	X10-038	2	M12 WASHER	
77	X10-039	2	M12 LOCK WASHER	
78	X10-053	2	M12 x 45mm BOLT	

IMPORTANT

Model EQ12 Installation, Operation and Maintenance



ITEM #	PART #	QTY/LIFT	DESCRIPTION
85	JSJ6-08-00K	2	CARRIAGE
86	JSJ5-08-15	16	SLIDE BLOCKS
87	JSJ6-11	4	ARM PIN
88	JSJ4-05-ch	2	DOOR GUARD
89	X10-087	4	M8 WASHER
90	X10-088	4	M8 x 30mm Lg. SOCKET HEAD BOLT
91	X10-077	12	M10 x 25mm Lg. SOCKET HEAD BOLT
92	X10-074	12	M10 LOCK WASHER
93	JSJ6-09-07	4	INNER GEAR
94	JSJ6-13	4	ARM RESTRAINT SHAFT
95	JSJ6-14	4	ARM RESTRAINT SPRING
96	JSJ6-12	4	OUTER GEAR
97	JSJ6-09-00EQ	4	ARM ASSEMBLY
99	JSJ4-09-08	4	M10 x 14 STOP BOLT, DOG POINT
100	X10-073	4	M10 WASHER
101	B2211	4	M6 ROLL PIN
102	B2272	4	FOOT PAD ASSEMBLY – 12K
102A	A1104-H	4	PAD
102B	JSJ6-09-04-01-00V	4	ADAPTER PAD WELD
103	JSJ5-22CH	4	40.5 x 48 x 20mm Lg. Collar
104	JSJ5-23CH	4	M8 x 8 Set Screw Cup Point

IMPORTANT



REVISIONS

2020/12/15 – CHANGED POWER UNIT FROM 31368-19 TO AB-9367-DLH. UPDATED PARTS BREAKDOWN AND WIRING SCHEMATIC.

2021/02/16 - CHANGED ITEM 4 TO JSJ5-03-03

- 2023/11/15 UPADTED ANSI/ALI REFERENCE MATERIAL. UPDATED ANCHORING INSTRUCTIONS Pg. 5.
- 2024/03/15 ADDED ANSI STANDARDS REFERENCE STATEMENT SECTION. PG. 4