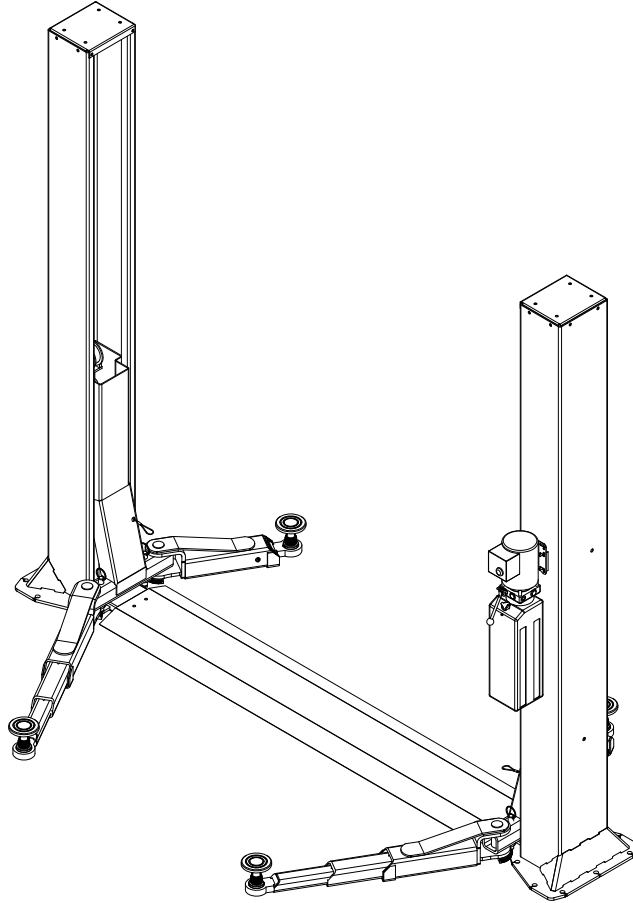




Installation, Operation & Maintenance Manual

Two Post Surface Mounted Lift



MODEL CLFP9

9,000 LBS. CAPACITY
2,250 LBS. PER ARM

2311 South Park Rd Louisville, Kentucky 40219
Email: Challengerlifts@soe.freshdesk.com Phone: 800-648-5438

IMPORTANT: READ THIS MANUAL COMPLETELY BEFORE
INSTALLING or OPERATING LIFT

GENERAL SPECIFICATIONS

See Figure 1	CLFP9
A Column Height	120 7/8"
B Rise Height (<i>Screw Pads Highest Position</i>)	78 1/8"
C Screw Pad Height	4" to 5 7/8"
D Overall Width	137 1/2"
E Inside of Columns	109"
Drive Thru Clearance	98 3/16"
Ceiling Height Required	121 7/8"
* Maximum Capacity	9,000 lbs. (2250 lbs. Per Arm)
** Lifting Time	50 Sec. (approximate)
Motor	2HP, Single Phase, 60Hz, 208/230 Optional – 2HP, Three Phase, 50/60Hz, for 208 or 230 or 460

* 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.

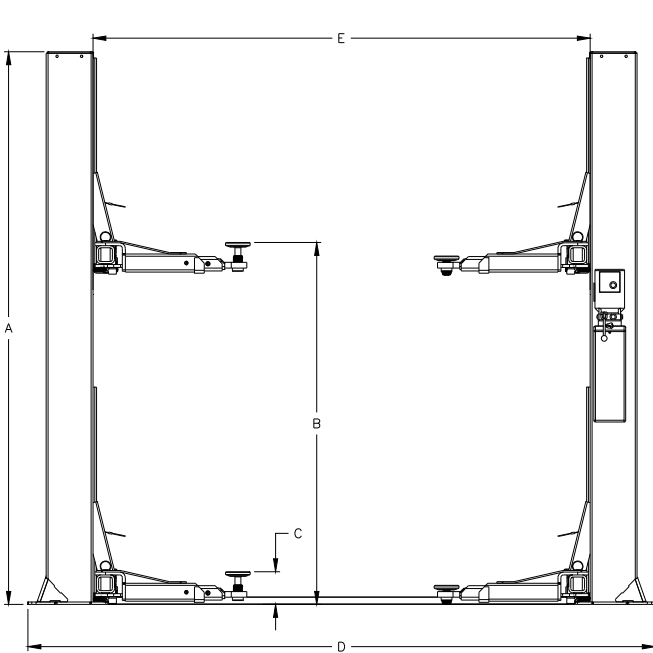


Fig 1a - General Specifications

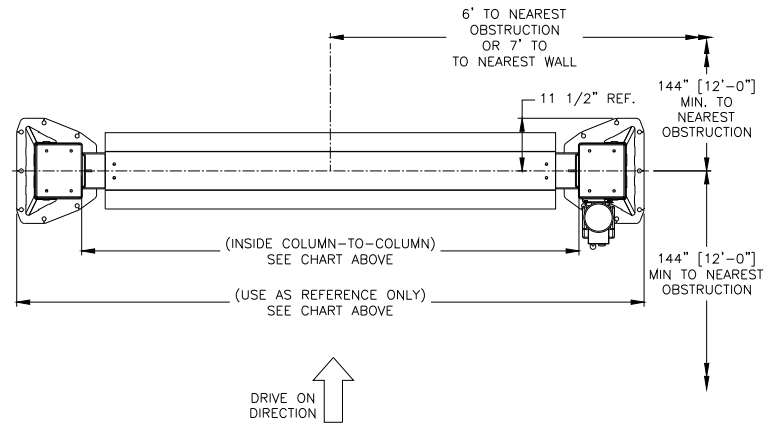


Fig1b - Service Bay Layout

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.



WARNING 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 inches minimum 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.



WARNING 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). Outdoor Installation is Prohibited.

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.

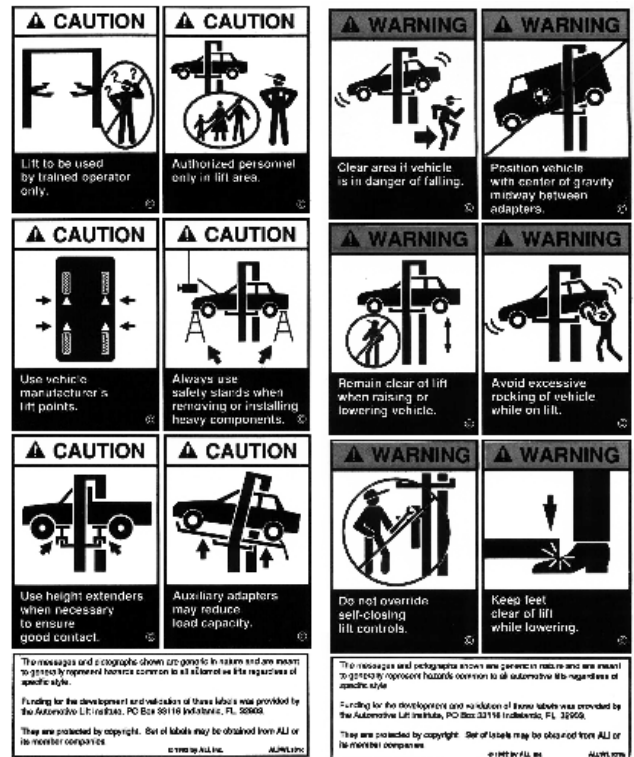
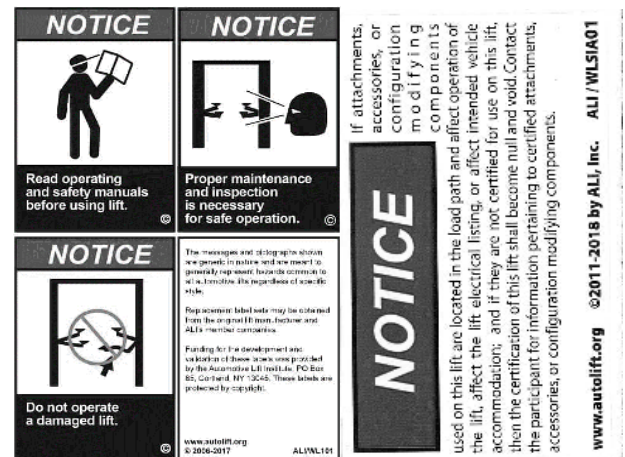
PROPER MAINTENANCE AND INSPECTION IS NECESSARY FOR SAFE OPERATION.

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.



WARNING 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 **Challenger Lifts** 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 **Challenger Lifts** promptly. Support your claim with copies of the bill of lading, freight bill, and photographs, if available.

Component Packing List

PART #	QTY/ LIFT	DESCRIPTION
B26075	1	Power Column Ass'y
B26076	1	Idler Column Ass'y
B26015	1	Drive Over Channel Weld
B26049	1	Drive Over Plate
B39071D	4	Arm Pack
B26027	1	Drive Over Extension Line
CLFP9-001	1	HARDWARE BOX

ACCEPTED OILS – Do not use oils with detergents *Hydraulic fluid is not provided with the lift shipment*

-10 wt. anti-foam, anti-rust hydraulic / biodegradable oil

-Dexron III ATF

Edition of Standards Referenced

Where any ANSI standard or ALI materials are referenced within this manual, the most recent edition 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)

- Tape measure, 16ft
- Chalk line
- 4ft level
- 10" adjustable wrench
- Open end wrenches 27mm or 1 1/16", 11/16"
- Needle nose pliers
- Hammer drill with 3/4" & 3/8" diameter carbide tipped bits.
- 2lb hammer
- Torque wrench: 150-foot pounds minimum with 9/16" & 1 1/8" sockets
- 12 ft. Step ladder
- 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.
- Erect both column assemblies. Align the notches in the column base and place the drive over channel in between. **Do not drill and anchor drive over channel at this time.**
- When assembling top cap to the column, install hardware with nut and washers on the outside of the column.

COLUMN 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.**
- Recheck "Inside of Columns" dimension (**Fig. 1b**).
 - 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.
 - Clean the hole inside and out.

- 7) 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) exposed 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.

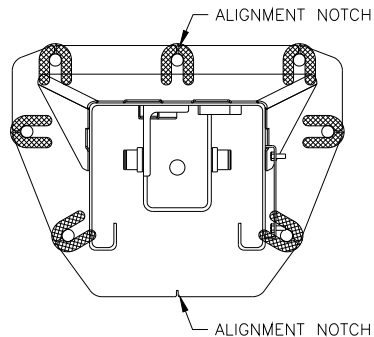


Fig 2 – Column Shimming

- 10) Tighten power column anchors and recheck column for plumb. Reshim if necessary. Torque to 150-foot pounds to set anchors.

POWER UNIT HYDRAULIC LINES

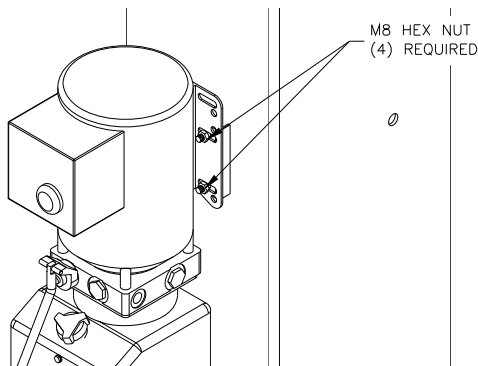


Fig 3 – Power Unit Mounting

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 1/2 hex flats (90 deg.). Back the flared fitting off one full turn. Again, tighten flared fitting finger tight, then rotate flared fitting 1 1/2 hex flats (90 deg.).

- 11) Mount Power Unit to power column as shown in **Fig 3**. The (4) mounting hardware nuts are pre-installed on power unit mounting bracket.

- 12) Thread 9/16-18 O-ring elbow (in hardware box) into power unit. Attach free end of power unit hose to elbow. See **Fig 4**. CAUTION do not damage rubber O-ring.

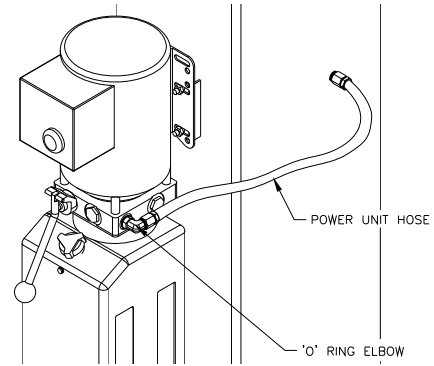
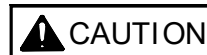


Fig 4-Power Unit Connection

SYNCHRONIZER CABLES & HYDRAULIC LINES

- 13) Raise each carriage into the first or second lock position.
- 14) **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.

Ensure that the top of the hydraulic cylinder is still retained in the opening of the top plate of the carriage as shown in Fig 5.



Failure to follow previous step could result in personal injury.

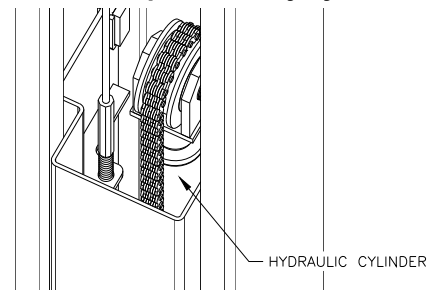


Fig 5-Cable Assembly

- 15) Position the provided hydraulic hose between the two columns in the drive over channel. Attach each end of the hose to the cylinders.
- 16) **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.**
- 17) To install the cables around the bottom sheaves, remove the snap rings holding the sheave in place and disassemble, **Fig 6**.

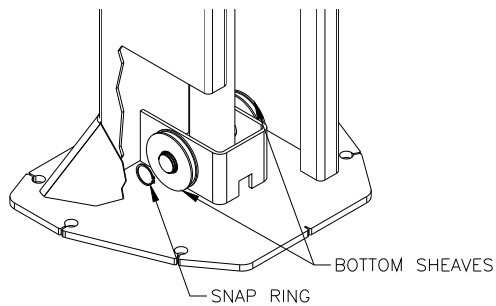


Fig 6-Lower Sheaves

- 18) Route the cable under the bottom sheave, along the drive over channel and under the bottom sheave of the opposite column and reassemble.
- 19) Remove the cable trapping bolt assembly, **Fig 7**, on the top sheave. Route the cable up through the carriage and over the sheave. Reinstall the cable trapping bolt assembly once cable is routed properly.

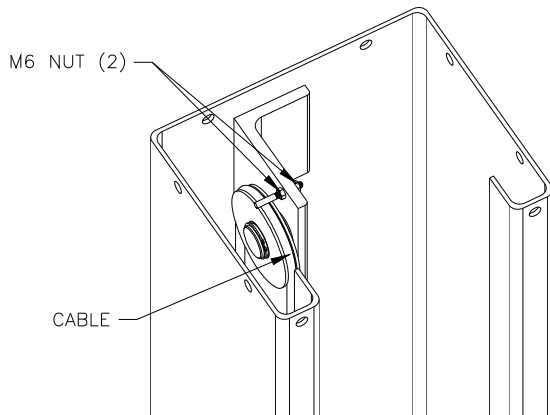


Fig 7-Upper Sheave

- 20) Attach the cable to the carriage with the provide nuts that came on the end of each cable,

Complete steps 16 thru 19 for the cables on each column.

- 21) Raise the carriages so the hydraulic cylinder is out of the way and sent into the locks. Using a wrench, tighten the nut on the cable, **Fig 8** and then use the second nut as a jam nut once cables are adjusted properly.

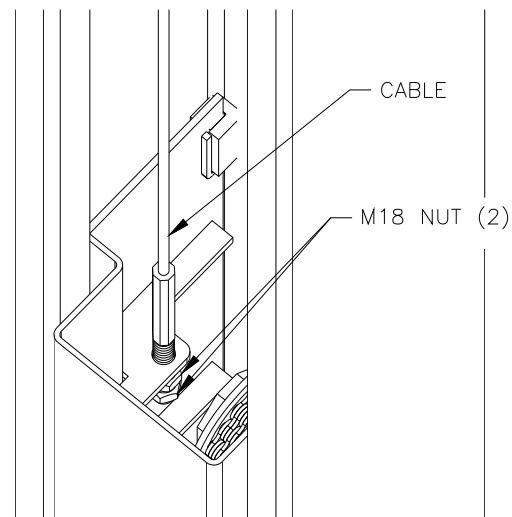


Fig 8-Cable Attachment

ARM INSTALLATION

- 22) Lubricate the arm pin or carriage arm pin hole with “anti-seize” and install the arms. 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.
- 23) Slide the provided washer onto pin up against the inner bevel gear.
- 24) Install the provided retaining ring onto the pin with tool, **Fig 9**.
- 25) Extend the foot pad to both extents and apply “anti-seize” to the three retaining rings and where the double screw makes contact with the base of the foot pad.

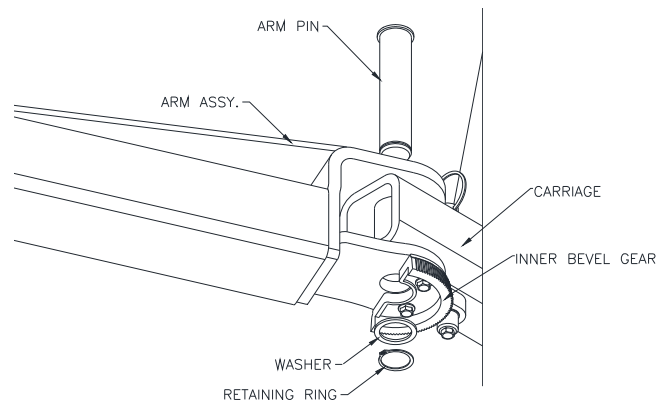


Fig 9 -Arm Pin Keeper Install

ELECTRICAL

- 26) Have a certified electrician connect the power unit to a suitable electrical power source. The standard power unit is 208/230-volt 60 Hz single phase requiring a dedicated 25-amp double poll, double throw circuit breaker to operate lift at full capacity, **Fig 10**.

DRIVE OVER ANCHORING

- 27) Using the drive over channel as a template drill (4) Use a concrete hammer drill with a 3/8-inch carbide bit. Tip diameter should conform to ANSI Standard B212.15 (.390 to .398). 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.**
- 28) Place the drive over plate over the drive over channel. Assemble washer and nut to anchor with nut just below impact section of bolt. Drive anchor into hole until nut and washer contact drive over plate.
- 29) Over tightening the 3/8 x 3-3/4" anchors will dimple the drive over plate. Torque anchors until top plate is secure.

COLUMN DECAL PLACEMENT

- 30) Center decal on idler column, opposite of the power unit.
- 31) Apply the decal 48" from the top of the base plate, **Fig 11**.

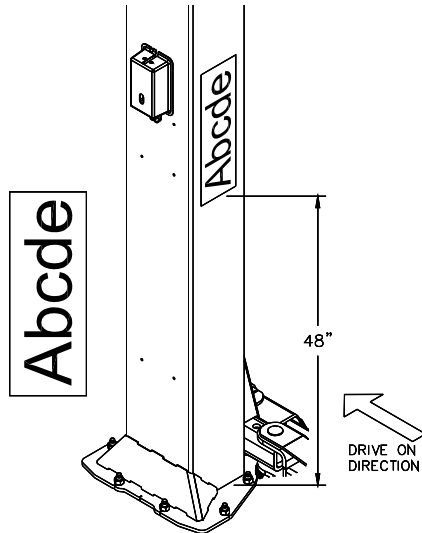


Fig 11 – Decal Placement

FINAL ADJUSTMENTS

HYDRAULICS

- 32) 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.
- 33) 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-corrosive 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 appear to be leaking.**

SYNCHRONIZING CABLES

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

LOCK RELEASE CABLE

- 37) To lower the lift, raise the lift slightly off of a lock position and pull the lock release cables on each carriage.
- 38) Rise the lift fully making sure locks engage properly.

OWNER/OPERATOR CHECKLIST

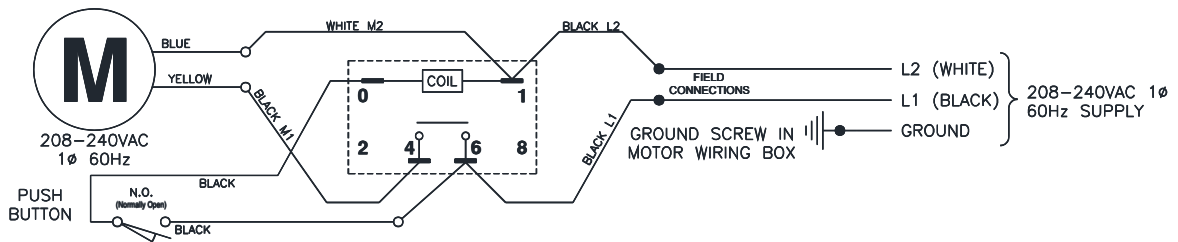
- 39) Demonstrate the operation of the lift to the owner/operator/employer using a typical vehicle and review correct and safe lifting procedures using the **Lifting It Right** booklet as a guide.
- 40) Return all provided literature (including this manual) to the literature pack envelope and deliver the envelope to the owner/operator/employer.
- 41) Complete the online warranty registration (refer to the included warranty statement).

Wiring Diagram

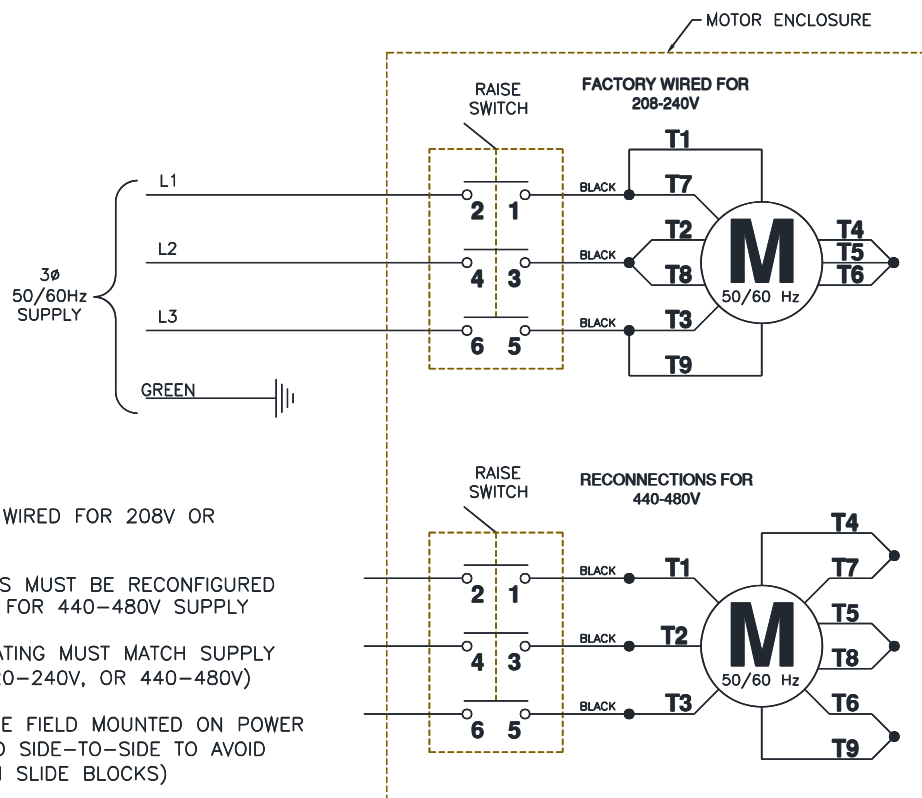
- * EACH LIFT SHOULD HAVE A DEDICATED CIRCUIT WITH A DOUBLE POLE (THREE POLE FOR 3 PHASE) BREAKER OR TIME DELAY FUSE SIZED ACCORDING TO THE FOLLOWING CHART.
- * WIRING MUST COMPLY WITH ALL LOCAL ELECTRICAL CODES.
- * ELECTRICAL CODE REQUIRES A SERVICE DISCONNECT FOR THIS DEVICE. WE SUGGEST THIS SERVICE DISCONNECT BE LOCATED NEAR THE POINT OF OPERATION.

	1 ϕ 208-240V	3 ϕ 208V	3 ϕ 220-240V	3 ϕ 440-480V
2Hp	30amp			
3Hp		15amp	15amp	5amp

FOR SINGLE PHASE



FOR THREE PHASE



NOTES:

- 1) MOTOR IS FACTORY WIRED FOR 208V OR 220-240V SUPPLY
- 2) MOTOR CONNECTIONS MUST BE RECONFIGURED PER THIS DIAGRAM FOR 440-480V SUPPLY
- 3) CONTACTOR COIL RATING MUST MATCH SUPPLY VOLTAGE (208V, 220-240V, OR 440-480V)
- 4) CONTACTOR MUST BE FIELD MOUNTED ON POWER COLUMN (CENTERED SIDE-TO-SIDE TO AVOID INTERFERENCE WITH SLIDE BLOCKS)
- 5) MOTOR ROTATION IS COUNTER CLOCKWISE FROM TOP OF MOTOR

Fig 10 – 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 INSTRUCTIONS

LIFTING A VEHICLE

- 1) Ensure that the lifting arms are parked, out to full drive thru position.
- 2) Center the vehicle between the columns in the service bay and position the vehicle's center of gravity midpoint between the columns. NOTE: the center of gravity is based on the weight distribution and is not the same as the center point of the vehicle.

DO NOT EXCEED 2250 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 locks on both columns engage. The vehicle should remain level when both locks 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 locks.

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 latches are free.
- 3) Disengage the latches by pulling both the lock release latches on both carriages.
- 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.

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 adapters for damage or excessive wear. Replace as required with genuine Challenger Lifts parts.
- Check lock release activation. When properly adjusted, the idler column lock should rest firmly against the back of the column when engaged and against the spring mount tab when disengaged.

Weekly

- Check synchronizer cables and sheaves for wear. Replace as required with genuine Challenger Lifts parts.
- Check lock release cable adjustment per Installation Instructions step 17.
- Check synchronizer cable tension per Installation Instructions. Adjust if necessary.

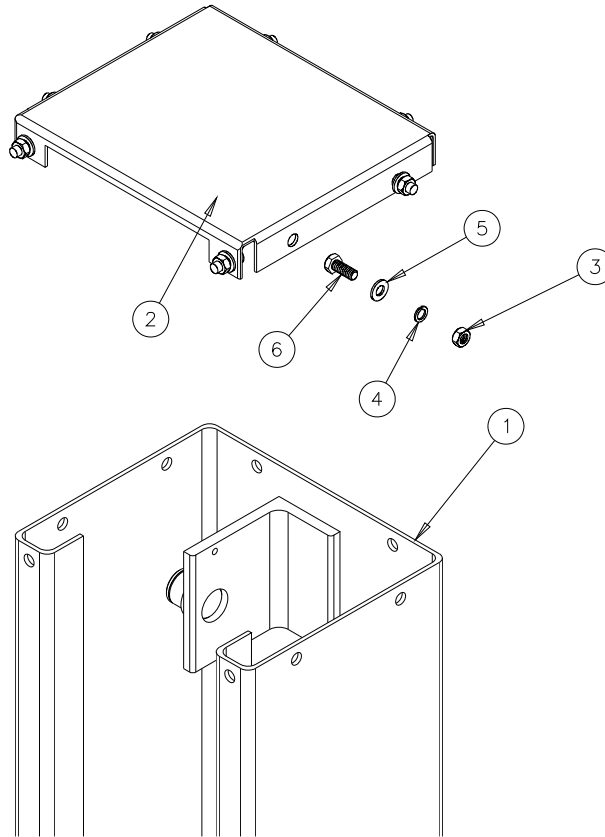
Monthly

- Torque concrete anchor bolts to 80 ft-lbs.
- 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.

PARTS BREAKDOWN

Fig A. Column & Overhead

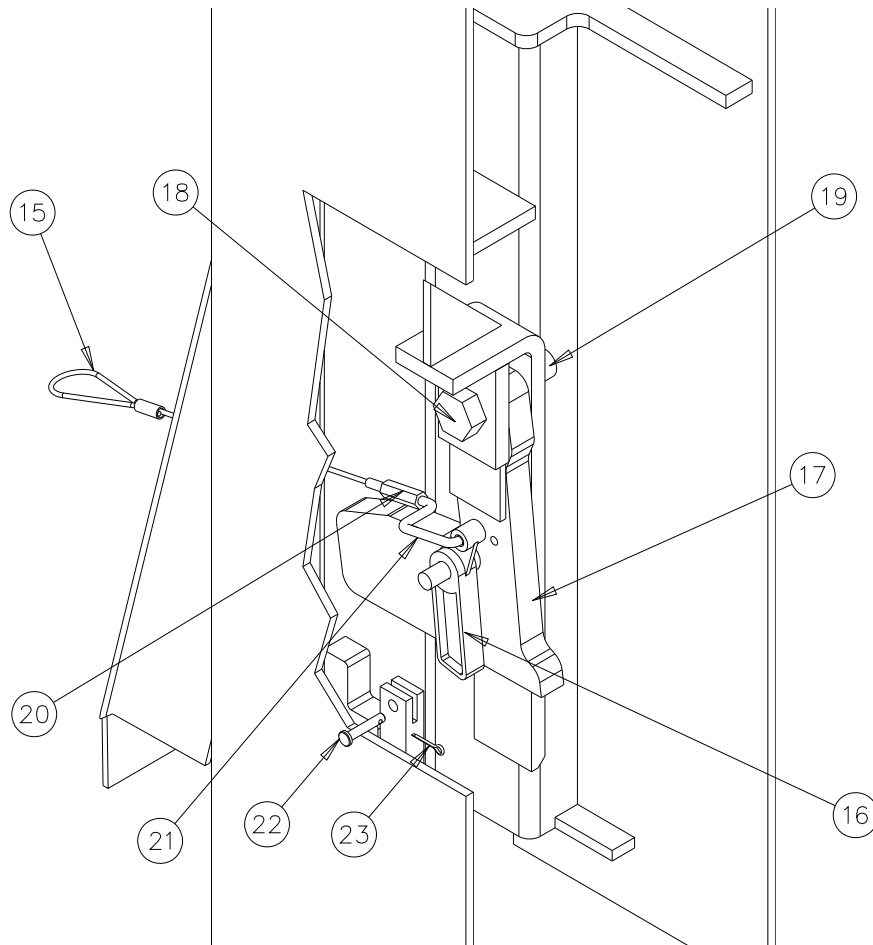


ITEM #	PART #	QTY/LIFT	DESCRIPTION
1	B26075	1	POWER COLUMN WELD
	B26076	1	IDLER COLUMN WELD
2	B26011	2	TOP CAP
3	B31038	16	M10 NUT
4	B31037	16	M10 SPLIT LOCKWAHSER
5	B31036	16	M10 FLAT WASHER
6	B1068	16	M10x25mm HEX FLANGE HEAD BOLT

Replace all worn or broken parts with genuine **Challenger Lifts Inc.** parts.
Contact your local Challenger Lifts Parts Distributor for pricing and availability.
(Call Challenger Lifts Inc. (502) 625-0700 for the Parts Distributor in your area)

PARTS BREAKDOWN (continued)

Fig B. Lock

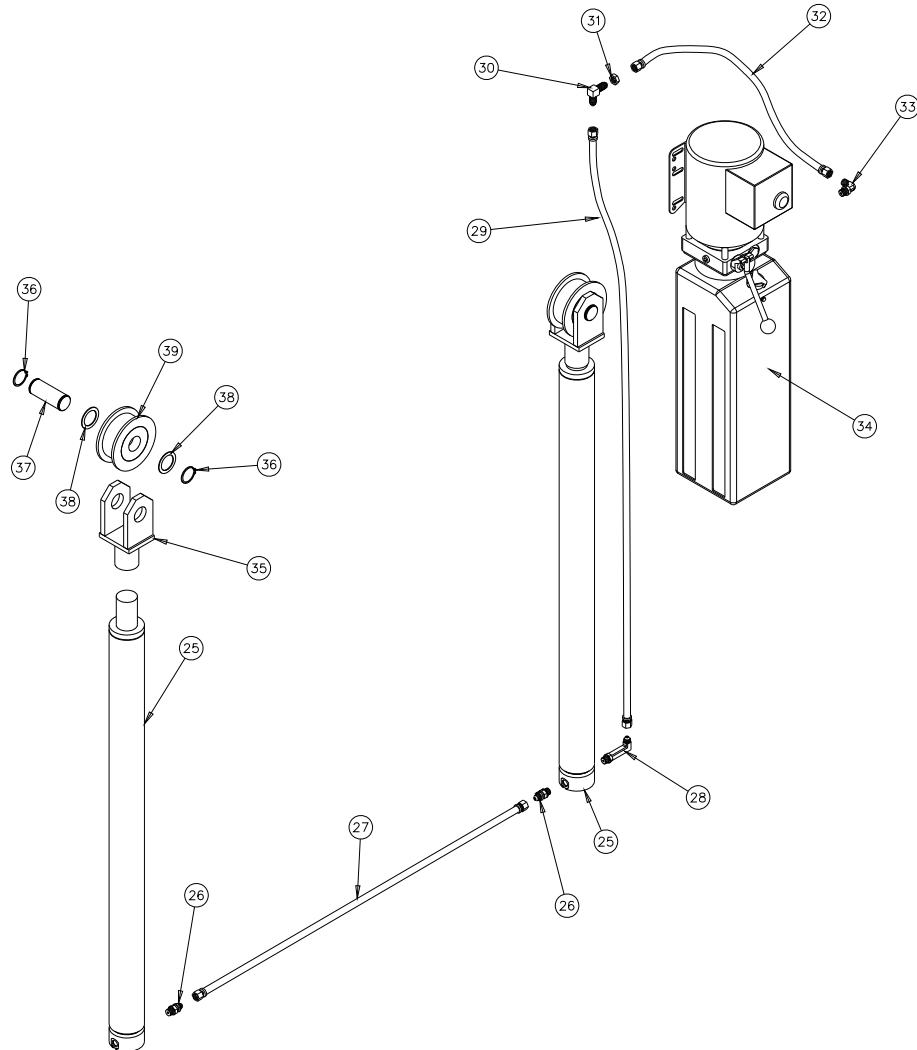


ITEM #	PART #	QTY/LIFT	DESCRIPTION
15	B31150	2	SOFT LATCH RELEASE
16	B31262	2	TRIGGER GRAVITY LATCH
17	B31261	2	GRAVITY LATCH
18	B31081	2	M20x70mm Lg. HEX HEAD CAP SCREW
19	B31082	2	M20 LOCK NUT
20	B31149	2	M6 COUPLING NUT
21	B31151	2	HOOK-LOCK RELEASE HANDLE
22	31079-01	4	CLEVIS PIN
23	31079-02	4	COTTER PIN, Ø2.5mm X 20mm

Replace all worn or broken parts with genuine **Challenger Lifts Inc.** parts.
Contact your local Challenger Lifts Parts Distributor for pricing and availability.
(Call Challenger Lifts Inc. (502) 625-0700 for the Parts Distributor in your area)

PARTS BREAKDOWN (continued)

Fig C. Hydraulics

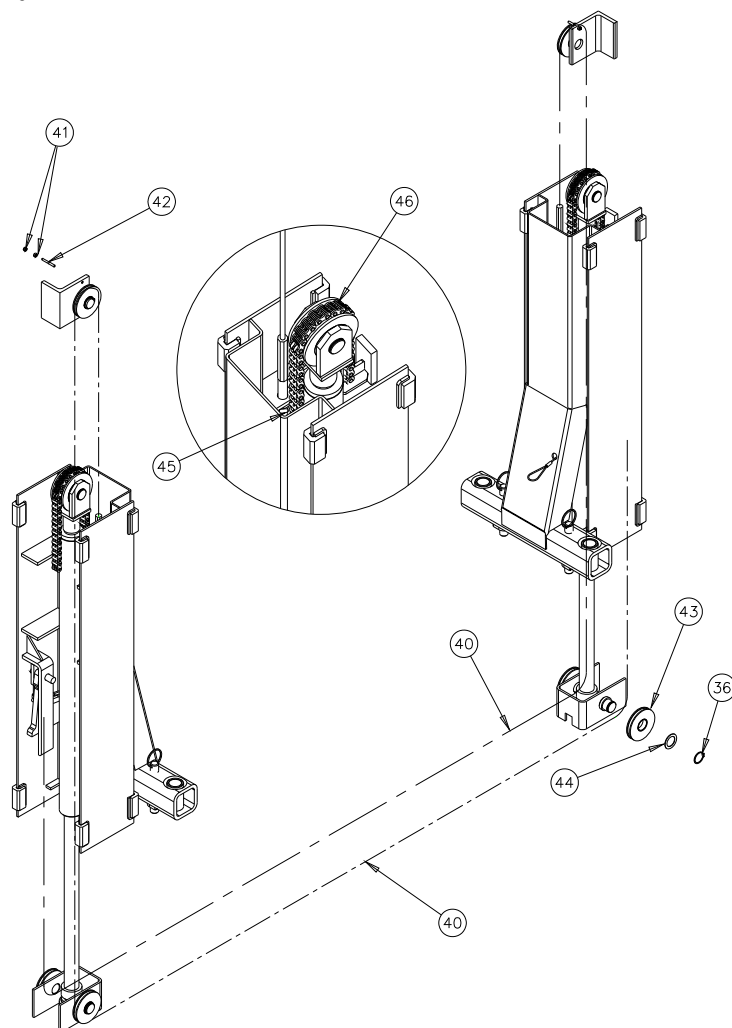


ITEM #	PART #	QTY/LIFT	DESCRIPTION
25	QY31265	2	36" STROKE HYD. CYLINDER
26	B31116	2	9/16-18 O-RING UNION
27	B26027	1	DRIVE OVER EXTENSION LINE
28	JSS3-19	2	9/16-18 ELBOW 90°
29	B31090	1	CYLINDER HYD. LINE
30	B26000-01	2	9/16-18 ELBOW 90°
31	B26000-02	2	9/16-18 NUT
32	JSJ5-17CH	1	HYD. HOSE ASSEMBLY (P/U – 22")
33	16167	1	HYD ELBOW, 9/16 O-RING MALE TO #6 MALE FLARE
34	AB-9367-DLH	1	POWER UNIT 1Ph, 50/60Hz, 208-230V
	31355-19	1	POWER UNIT 3Ph, 60Hz, 208-460V
35	B31094	2	CYLINDER ROD END WELDMENT
36	B31021	10	35mm RETAINING RING
37	B31093	2	Ø35mm PIN
38	B31092	4	36mm x 50mm x 1.5mm WASHER
39	B31095	2	ROLLER ASSEMBLY

Replace all worn or broken parts with genuine **Challenger Lifts Inc.** parts.
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(Call Challenger Lifts Inc. (502) 625-0700 for the Parts Distributor in your area)

PARTS BREAKDOWN (continued)

Fig D. Synchronizer

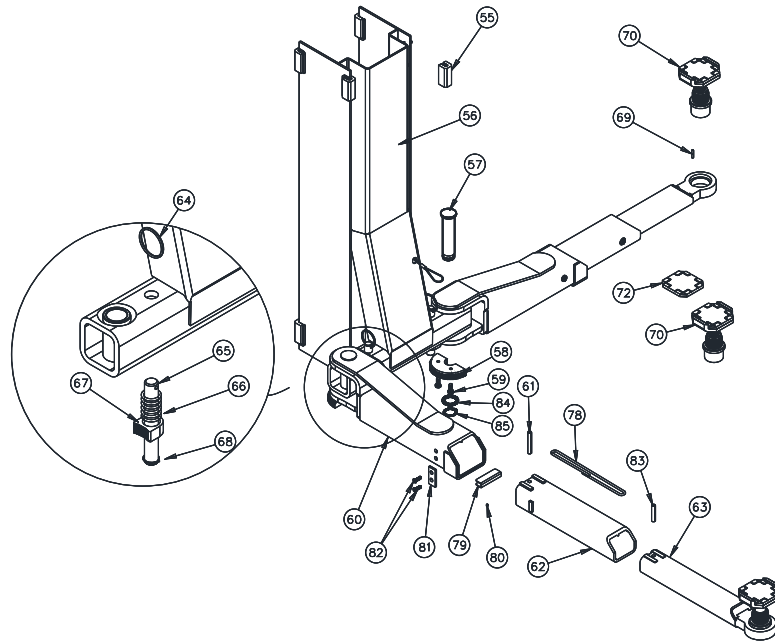


ITEM #	PART #	QTY/LIFT	DESCRIPTION
40	B26052	2	POWER / IDLER CABLE
41	B40467	4	M6 HEX NUT
42	B26044 - 02	2	CABLE TRAPPING THREADED ROD
43	B26008	6	CABLE SHEAVE
44	B26008 - 02	6	M35 WASHER
45	JSJ5 - 04 - 02	8	M18 HEX NUT
46	B31079	2	73P DRIVE CHAIN

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PARTS BREAKDOWN (continued)

Fig E. Carriage & Arms



ITEM #	PART #	QTY/LIFT	DESCRIPTION
55	B31023	16	SLIDE BLOCK
56	B26024	2	CARRIAGE WELD
57	A1078	4	ARM PIN
58	A1070TC	4	INNER GEAR (ARM RESTRAINT)
59	B1068	8	M8x1.25 x 16 Flat Socket Head Screw
60	B39072B	4	FEMALE ARM WELD
61	B2202-02	4	ROLL PIN, 12mm DIA x 80mm Lg
62	B39071-01-00C	4	INTERMEDIATE ARM WELD
63	B39071-02-00A	4	MALE ARM WELD
64	A1075	4	PULL RING
65	A1073C	4	SHAFT
66	B31109	4	COMPRESSION SPRING (RESTRAINT SHAFT)
67	A1072TC	4	OUTER GEAR
68	B36014	4	RETAINING RING
69	B2211	4	ROLL PIN, 6mm DIA x 30mm Lg
70	B2270	4	FOOT PAD ASSEMBLY (items 72-77)
72	A1104-H	4	RUBBER INSERT
73	A1101-1H	4	FOOT PAD WELD
74	B17256	4	2 x 30mm ROUND WIRE RETAINING RING
75	B17257	8	3 x 45mm ROUND WIRE RETAINING RING
76	B2261	4	THREADED SLEEVE
77	B17276-1	4	THREADED INSERT
78	39073	4	STOP LOOP
79	CS1020-03-01	4	FEMALE ARM SHIM
80	CS1020-03-02	4	M6 x 1mm x 6mm Lg. SELF LOCKING SET SCREW
81	CS1020-04	4	STOP BLOCK
82	17350	8	M8 x 10mm Lg. FLAT HEAD BOLT
83	B2202-01	4	ROLL PIN, 12mm DIA x 60mm Lg
84	B2203S-01D	4	38mm ID, 51mm OD WASHER
85	B1083	4	38mm EXTERNAL RETAINING RING
	B39071D	4	ARM ASSEMBLY ITEMS: 58, 59, 60, 61, 63, 70, 78, 79, 80, 81, 82, 83

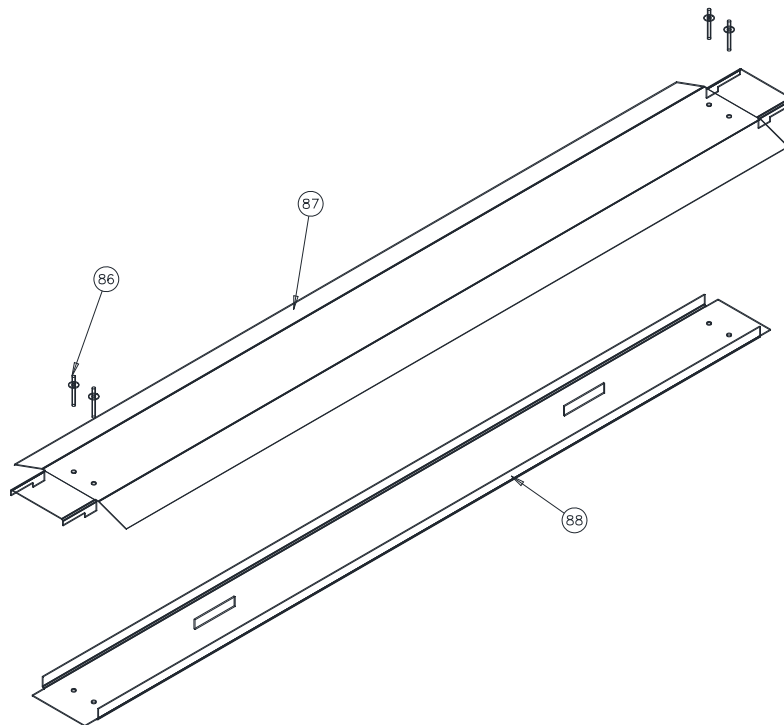
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Model CLFP9
Installation, Operation and Maintenance

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PARTS BREAKDOWN (continued)

Fig F. Drive Over Assembly



ITEM #	PART #	QTY/LIFT	DESCRIPTION
86	26028	4	3/8 x 3-3/4" ANCHOR BOLTS
87	B26049	1	DRIVE OVER PLATE
88	B26015	1	DRIVE OVER CHANNEL

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REVISIONS

2021/08/17 – UPDATED THE ANSI/ALI ALCTV AND ALOIM. OUTDOOR USED IS PROHIBITED.
2023/11/15 – UPDATED ANSI/ALI REFERENCE MATERIAL. UPDATED ANCHORING INSTRUCTIONS. Pg. 4
2024/03/15 – ADDED ANSI STANDARDS REFERENCE STATEMENT SECTION. PG. 4
2024/09/26 – UPDATED ANSI/ALI STATEMENT
2024/10/24 – UPDATED WIREING DIAGRAM TO INCLUDE NEW RELAY