

# MOHAWK LIFTS

Americas Best Lift Investment...



# MOHAWK LIFTS

*Proudly designed, welded & manufactured in the U.S.A.*



## MOHAWK MODEL ML-220XL / WB

### INSTALLATION, OPERATION, AND SERVICE MANUAL.

**20,000 LB CAPACITY  
2 POST ELECTRIC/HYDRAULIC VEHICLE LIFT**

**READ THIS MANUAL THOROUGHLY BEFORE:  
INSTALLATION, OPERATION, OR SERVICING THIS LIFT.**

**DELIVER THIS MANUAL TO THE TO THE  
OWNER/USER/EMPLOYER ALONG WITH ALL OTHER  
INSTRUCTION MATERIALS FURNISHED WITH THE LIFT.**

REVISION DATE: 04/09/2026

**MOHAWK LIFTS, LLC.** • 65 Vrooman Avenue • Amsterdam, NY 12010

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THIS MANUAL COVERS THE FOLLOWING MOHAWK MODEL NUMBERS:

<u>MODEL:</u>	<u>CAPACITY:</u>
ML-220XL	20,000 LBS
ML-220XL-WB	20,000 LBS



MOHAWK LIFTS WOULD LOVE TO SEE YOUR NEWLY INSTALLED LIFT.

PLEASE VISIT [WWW.MOHAWKLIFTPICS.COM](http://WWW.MOHAWKLIFTPICS.COM)

CLICK ON THE SUBMIT PHOTOS LINK AT THE TOP OF THE PAGE OR IN THE MENU DROP DOWN TO SEND US A PICTURE.

**(NOTE: BY SUBMITTING PHOTOS TO MOHAWK LIFTS, THIS GRANTS MOHAWK LIFTS THE PHOTO RIGHTS TO USE THE IMAGE IN MOHAWK LIFTS MARKETING MATERIALS.)**

## GENERAL NOTES AND WARNINGS:

- THIS MANUAL HAS BEEN WRITTEN IN ACCORDANCE WITH ANSI/ALI ALOIM - AUTOMOTIVE LIFT-SAFETY REQUIREMENTS FOR OPERATION, INSPECTION, AND MAINTENANCE AS WELL AS ANSI/ALI ALIS - SAFETY REQUIREMENTS FOR INSTALLATION AND SERVICE OF AUTOMOTIVE LIFTS.
- ALL USERS OF THIS LIFT MUST BE TRAINED IN ITS USE, SHOULD READ THIS MANUAL, AND UNDERSTAND THE USE OF THIS LIFT AS DESCRIBED IN THE MANUAL.
- THE CONTENTS OF THIS MANUAL ARE INTENDED AS A BASELINE FOR OPERATION, MAINTENANCE, TROUBLESHOOTING, AND PARTS LISTING AS IT STANDS ALONE AND IN ITS ANTICIPATED USE.
- THE PROPER APPLICATION OF THE LIFT DESCRIBED HEREIN IS LIMITED TO THE PARAMETERS DETAILED IN THE SPECIFICATIONS AND THE USES SET FORTH IN THE MANUAL.
  - ANY OTHER PROPOSED APPLICATION OF THE EQUIPMENT SHOULD BE DOCUMENTED AND SUBMITTED, IN WRITING, TO MOHAWK LIFTS LLC. FOR EXAMINATION.
  - THE USER ASSUMES FULL RESPONSIBILITY FOR ANY EQUIPMENT DAMAGE, PERSONAL INJURY, OR ALTERATION OF THE LIFT DESCRIBED IN THIS MANUAL OR ANY SUBSEQUENT DAMAGES.
- ALL WARRANTIES APPLICABLE TO THIS LIFT ARE CONTINGENT ON STRICT ADHERENCE TO THE MAINTENANCE SCHEDULES AND PROCEDURES IN THIS MANUAL, AND THE LIFT IS WARRANTY REGISTERED WITH MOHAWK LIFTS LLC.
- DO NOT WELD, APPLY HEAT, OR MODIFY THIS LIFT IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM MOHAWK LIFTS LLC. CERTAIN ALLOY OR HEAT-TREATED COMPONENTS MAY BE DISTORTED OR WEAKENED RESULTING IN AN UNSAFE CONDITION. MOHAWK LIFTS LLC. IS NOT RESPONSIBLE FOR DISTORTIONS WHICH RESULT FROM WELDING ON THIS LIFT AFTER MANUFACTURING IS COMPLETED. UNAUTHORIZED WELDING, APPLICATION OF HEAT, OR MODIFICATION OF THIS LIFT WILL VOID ANY AND / OR ALL APPLICABLE WARRANTIES COVERING THIS EQUIPMENT.

### **WARNING**

THE LIFT DESCRIBED IN THIS MANUAL COULD BE POTENTIALLY DANGEROUS IF IMPROPERLY OR CARELESSLY OPERATED. FOR THE PROTECTION OF ALL PERSONS AND EQUIPMENT, ONLY COMPETENTLY TRAINED OPERATORS WHO ARE CRITICALLY AWARE OF THE PROPER OPERATING PROCEDURES, POTENTIAL DANGERS, AND SPECIFIC APPLICATION OF THIS EQUIPMENT SHOULD BE ALLOWED TO USE THE LIFT AT ANY TIME.

SAFE OPERATION OF THIS LIFT IS DEPENDANT ON USE, IN COMPLIANCE WITH THE OPERATION PROCEDURES OUTLINED IN THIS MANUAL, THE INCLUDED AUTOMOTIVE LIFT INSTITUTE (ALI) "LIFTING IT RIGHT" GUIDE, THE ALI "VEHICLE LIFTING POINTS GUIDE, AND THE MAINTENANCE AND INSPECTION PROCEDURES WITH CONSIDERATION OF PREVAILING CONDITIONS.

THE LIFT DESCRIBED IN THIS MANUAL IS NEITHER DESIGNED NOR INTENDED FOR ANY APPLICATION THAT INVOLVES THE LIFTING OR MOVING OF **PEOPLE**.

ALWAYS CONSULT THE ALI "**VEHICLE LIFTING POINTS**" GUIDE FOR THE PROPER LIFTING POINTS ON ANY VEHICLE. THESE GUIDES ARE AVAILABLE FROM THE VEHICLE MANUFACTURERS. REFER TO THE **ANSI STANDARD "VEHICLE LIFT POINTS FOR SERVICE GARAGE LIFTING" ANSI/SAE J2184-OCT92, SAFETY MANUAL "LIFTING IT RIGHT" ALI/SM01, AND "VEHICLE LIFTING POINTS GUIDE" ALI/LP-GUIDE** FOR PROPER POSITIONING OF VEHICLES ON THE LIFT.

**A NEW ALI "VEHICLE LIFTING POINTS" GUIDE IS SUGGESTED ANNUALLY TO KEEP UP TO DATE ON PROPER VEHICLE LIFTING POINTS**

AFTER LIFTING THE VEHICLE TO THE DESIRED HEIGHT, **ALWAYS LOWER THE VEHICLE ONTO THE MECHANICAL SAFETIES**, THE FORMING OF GOOD OPERATIONAL WORK HABITS WILL ELIMINATE OVERSIGHTS IN THE USE OF PROVIDED SAFETY DEVICES.

## FLOOR REQUIREMENTS:

### **WARNING**

- ALL 2 POST LIFTS REQUIRE A CONTINUOUS SINGLE SLAB, SPANNING EXPANSION SEAMS OR POSITIONING POSTS ON SEPARATE SLABS IS NOT ACCEPTABLE.
- DO NOT INSTALL THIS UNIT ON ANY SURFACE OTHER THAN CONCRETE THAT CONFORMS TO THE CONCRETE SPECIFICATIONS IN THIS MANUAL.
- DO NOT USE THIS UNIT ON A SECOND FLOOR OR ANY GROUND FLOOR WITH A BASEMENT BENEATH IT WITHOUT WRITTEN AUTHORIZATION FROM THE BUILDINGS ARCHITECT.
- NEVER HAND MIX CONCRETE.

### FLOOR LEVEL:

- A LEVEL FLOOR IS RECOMMENDED FOR A PROPER INSTALLATION AND WILL ENSURE LEVEL LIFTING.
- FOR OPTIMAL LEVEL LIFTING, THE LIFT WILL ONLY LIFT AS LEVEL AS THE FLOOR ON WHICH THE LIFT IS LOCATED AND SHOULD NOT BE EXPECTED TO COMPENSATE FOR DRASTIC SLOPE DIFFERENCES.
- MINOR DIFFERENCES IN FLOOR SLOPE MAY BE COMPENSATED FOR WITH SPECIAL LIFTING PADS OR BASEPLATE SHIMS, CONTACT MOHAWK LIFTS FOR ASSISTANCE.
- MAJOR SLOPE CHANGES WILL AFFECT THE UNIT'S LEVEL LIFTING PERFORMANCE, AND THE LOW-PROFILE HEIGHT OF THE LIFTING PADS
  - IF A FLOOR IS QUESTIONABLE IN SLOPE, CONSIDER A SURVEY OF THE SITE AND / OR THE POSSIBILITY OF POURING A NEW, LEVEL, CONCRETE SLAB SECTION

### CONCRETE: EXISTING FLOOR OR NEW CONSTRUCTION.

- LEVEL CONCRETE FLOOR WITH A MINIMUM THICKNESS OF 6.5", (5.5" FOR WIDE BASE)
- AGED AT LEAST (28) TWENTY-EIGHT DAYS PRIOR TO INSTALLATION
- HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
- THE FLOOR SHOULD BE TEST DRILLED TO VERIFY THE FLOOR THICKNESS
- A CORE SAMPLE IS RECOMMENDED TO BE OBTAINED TO VERIFY MINIMUM COMPRESSIVE STRENGTH
- CONSULT BUILDING DRAWINGS TO VERIFY PROPER REINFORCEMENT.

### **CAUTION**

IF FOR ANY REASON THE EXISTING FLOOR IN THE INSTALL AREA DOES NOT MEET THE MINIMUM REQUIREMENTS LISTED ABOVE, THEN IT WILL BE NECESSARY TO CUT OUT THE AREA WHERE THE LIFT WILL RESIDE AND INSTALL A NEW CONCRETE SLAB IN THAT LOCATION. THIS SLAB WILL TIE INTO THE EXISTING CONCRETE FLOOR.

INSTRUCTIONS FOR INSTALLING A REPLACEMENT SLAB CAN BE FOUND ON OUR WEBSITE.

[WWW.MOHAWKLIFTS.COM](http://WWW.MOHAWKLIFTS.COM) CLICK ON LIFT SPECS OR CHOOSE LIFT SPECS FROM THE MENU AND CHOOSE CONCRETE SLAB REQUIREMENTS.

OR CONTACT MOHAWK LIFTS FOR ASSISTANCE.

## INSTALLATION SITE REQUIREMENTS:

➤ **INDOOR USE ONLY.**

➤ **INSPECT THE BAY FOR OBSTRUCTIONS**

- BEFORE INSTALLATION OF THE LIFT VERIFY THAT THE SITE HAS ADEQUATE CLEARANCE AROUND AND ABOVE THE LIFT
- VERIFY THAT THERE IS ENOUGH CLEARANCE TO THE SIDES, THE FRONT, AND THE BACK OF THE LIFT FOR WORKING AREA BASED ON THE VEHICLES BEING LIFTED.
- INSPECT ABOVE THE LIFT FOR PIPES, LIGHTING, OR ANY OTHER ITEMS THAT WOULD OBSTRUCT THE LIFT AND ITS LOAD ON USE.

➤ **LEVEL CONCRETE FLOOR WITH:**

- A MINIMUM THICKNESS OF 6.5" (5.5" FOR WIDE BASE)
- COMPRESSIVE STRENGTH OF 4000 PSI

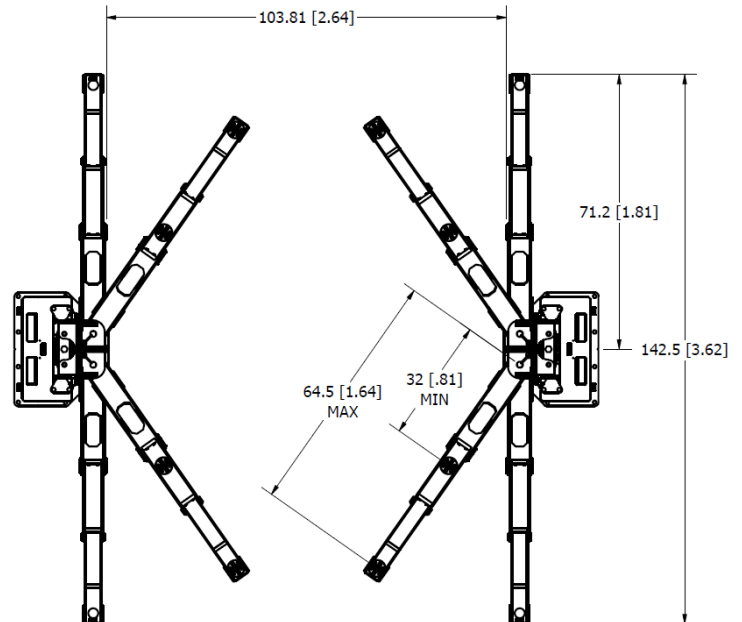
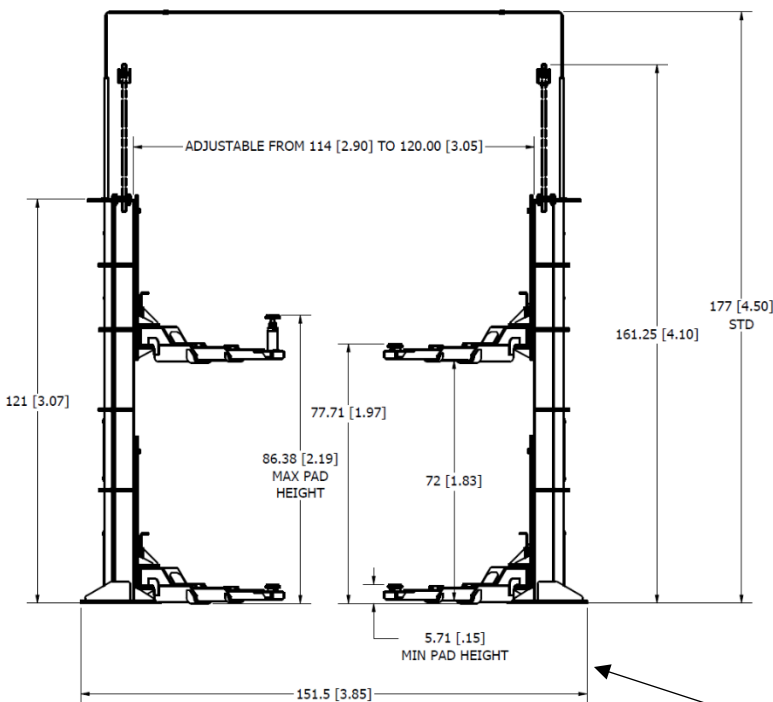
➤ **FLOOR SHOULD BE FREE OF SIGNIFICANT DAMAGE:**

- NO CRACKS
- NO MAJOR CHIPPING OR VOIDS.
- ALL ANCHORS SHOULD BE A MINIMUM OF 6 INCHES FROM ANY FLOOR DAMAGE, EXPANSION JOINTS, AND EXISTING ANCHOR HOLES.
- COLUMNS NEED TO BE ON ONE CONTINUOUS SLAB DO NOT INSTALL COLUMNS ON SEPARATE SLABS.

➤ **RECOMMENDED MINIMUM BAY SIZE.**

- HEIGHT: 180" (15 FEET).
- WIDTH: 180" (15 FEET)
- DEPTH: 360" (30 FEET)

### LIFT DIMENSIONS:



SHOWN WITH ADJUSTABLE HEIGHT OVER-HEAD STEEL HYDRAULIC LINES

WIDE BASE OUTSIDE DIMENSION 163.5"

## LIFT ENVIRONMENT LIMITATIONS:

**THIS LIFT IS DESIGNED AND INTENDED FOR INDOOR USE ONLY:** MOHAWK PROHIBITS THE OUTDOOR INSTALLATION OF THIS LIFT. THIS LIFT IS DESIGNED TO BE USED IN A NORMAL GARAGE TYPE ENVIRONMENT.

ANY CONCERNS IN APPLICATIONS THAT EXPOSE THE LIFT TO ADDITIONAL ENVIRONMENTAL EFFECTS SUCH AS:

- PAINT BOOTHS
- WASH BAYS
- OUTDOOR ENVIRONMENT
- EXTREME HIGH OR LOW TEMPERATURES

ANY CONDITION THAT IS NOT A NORMAL GARAGE ENVIRONMENT MUST BE ADDRESSED BY OUR ENGINEERING DEPARTMENT, WHERE PROVISIONS CAN BE MADE TO THE LIFT TO ACCOMMODATE THE AREA OF USE. OUR ENGINEERING DEPARTMENT MUST BE MADE AWARE IN ADVANCE OF THESE CONDITIONS AND ANY ADDITIONAL CODE REQUIREMENTS MUST BE MET.

THE FOUNDATION THAT THIS LIFT IS INSTALLED ON MUST COMPLY TO THE MINIMUM SPECIFICATIONS SET IN THIS MANUAL. ANY DRAINAGE SLOPES IN THE BAY WHERE THE LIFT IS INSTALLED MUST BE DIRECTED AWAY FROM THE COLUMNS TO PREVENT WATER ACCUMULATION AT THE COLUMN BASES.

FOR INSTALLATIONS WITHIN A SEISMIC AREA, FOLLOW ALL LOCAL AND STATE REQUIREMENTS.



**LOCKS DO NOT AUTOMATICALLY RESET AFTER DISENGAGEMENT. AFTER THE LOCKS HAVE BEEN MANUALLY DISENGAGED THE LIFT MUST BE RAISED APPROXIMATELY 2 INCHES TO REACTIVATE THE LOCKS.**

## LOCKOUT/TAGOUT REQUIREMENTS:

THE START SWITCH PROVIDED WITH THIS UNIT MUST NOT BE USED AS A PRIMARY DISCONNECTING MEANS. A SEPARATE DISCONNECTING MEANS MUST BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES. IT IS THE RESPONSIBILITY OF THE OWNER/USER OF THIS UNIT TO PROVIDE A PROPER LOCKOUT/TAGOUT DEVICE FOR THIS UNIT BEFORE OR DURING INSTALLATION IN CONFORMANCE TO ANSI Z244.1 AND ANY LOCAL, STATE, OR NATIONAL ELECTRICAL CODES AND ANY OSHA REGULATIONS.

### ACCESSORIES:

ALL ACCESSORIES (E.G., LIFTING PADS, HEIGHT ADAPTERS, TURF ADAPTERS) SUPPLIED WITH THIS LIFT ARE TO BE USED ON THIS LIFT ONLY. ACCESSORIES FROM OTHER LIFTS ARE NOT ACCEPTABLE AND COULD RESULT IN INJURY TO THE USER.

IF ATTACHMENTS, ACCESSORIES, OR CONFIGURATION MODIFYING COMPONENTS ARE USED ON THIS LIFT THAT ARE NOT CERTIFIED FOR THIS LIFT THEN THE LIFT CERTIFICATION IS VOID.

## SAFE LIFTING REQUIREMENTS:

**ALL MOHAWK 2 POST LIFTS MUST COMPLY TO THE FOLLOWING CRITERIA IN ORDER TO LIFT A VEHICLE SAFELY:**

- **PROPER CAPACITY:** ALL MOHAWK 2 POST LIFTS ARE DESIGNED TO LIFT STANDARD VEHICLES WITHIN THEIR RATED CAPACITY. ANY VEHICLES EXCEEDING CAPACITY MUST NOT BE RAISED.
- **INDIVIDUAL ARM CAPACITY: ONE FOURTH OF THE MAXIMUM LIFT CAPACITY. (5000 LBS)**
- **PROPER ENGAGEMENT OF THE VEHICLE FRAME:** ALWAYS USE ALL FOUR (4) SWING ARMS TO LIFT A VEHICLE. ENSURE LIFTING PADS ARE FULLY ENGAGING ALL PROPER LIFTING POINTS OF THE VEHICLE. ENSURE LIFTING POINTS USED FOR LIFTING ARE CAPABLE OF SUPPORTING THE VEHICLE. **REFER TO THE "VEHICLE LIFTING POINTS" GUIDE INCLUDED WITH THIS MANUAL**
- **PROPER FLOORING:** INSTALL THE LIFT ON A FLOOR COMPLYING WITH THE REQUIRED SPECIFICATIONS STATED IN THIS MANUAL.

## SAFETY INFORMATION:

**USE THIS EQUIPMENT ONLY AS DESCRIBED IN THIS MANUAL.**

**ONLY USE MOHAWK LIFTS APPROVED OPTIONS AND ACCESSORIES.**

- 1 ONLY TRAINED AND AUTHORIZED PERSONNEL SHOULD OPERATE THE LIFT.**
  - DO NOT ALLOW CUSTOMERS OR BYSTANDERS TO OPERATE THE LIFT OR BE AROUND THE LIFT DURING OPERATION.
- 2 PER ANSI STANDARDS INSPECT THE LIFT DAILY. (AN ANSI SAFETY TIPS CARD IS ENCLOSED WITH THE LIFT.)**
  - DO NOT OPERATE IF THE LIFT IS NOT FUNCTIONING AS DESIGNED.
  - DO NOT OPERATE THE LIFT IF ANY DISCREPANCY IS FOUND ON THE DAILY INSPECTION, HAVE THE LIFT INSPECTED BY A QUALIFIED SERVICEPERSON.
- 3 DO NOT OPERATE THE LIFT WITH A DAMAGED POWER CORD.**
  - REPLACE ANY DAMAGED POWER CORDS WITH A CORD WITH A CURRENT RATING EQUAL TO OR GREATER THAN THE EQUIPEMENT IT IS BEING USED ON.
- 4 ALWAYS KEEP THE LIFT AREA FREE OF DEBRIS OR OBSTRUCTIONS.**
  - GREASE AND OIL SPILLS SHOULD BE CLEANED UP IMMEDIATELY.
- 5 NEVER ATTEMPT TO OVERLOAD THE LIFT.**
  - THE MANUFACTURER’S RATED CAPACITY IS POSTED ON THE LIFT, DO NOT ATTEMPT TO RAISE A VEHICLE OVER THIS RATED CAPACITY.
  - THE CAPACITY IS LIMITED TO 1/4 OF THE LIFT CAPACITY PER LIFTING ARM, DO NOT OVERLOAD INDIVIDUAL ARMS.
  - OVERRIDING OPERATING CONTROLS WILL VOID THE WARRANTY.
- 6 BEFORE DRIVING A VEHICLE INTO THE WORK BAY: POSITION THE SWING ARMS TO ALLOW THE VEHICLE TO FREELY ENTER THE LIFT AREA.**
  - DO NOT HIT OR RUN OVER THE SWING ARMS, THIS COULD DAMAGE THE VEHICLE AND/OR THE LIFT.
- 7 ALWAYS USE ALL FOUR SWING ARMS TO RAISE AND SUPPORT VEHICLE THE VEHICLE BEING LIFTED.**
- 8 POSITION THE SWING ARMS SO THAT THE LIFTING PADS FULLY CONTACT THE PROPER VEHICLE LIFTING POINTS. REFER TO THE “VEHICLE LIFTING POINTS” GUIDE INCLUDED WITH THIS MANUAL.**
  - RAISE THE LIFT UNTIL THE LIFTING PADS CONTACT THE PROPER VEHICLE LIFTING POINTS.
  - ENSURE THAT THE PADS ARE CENTERED AND FLAT ON THE LIFTING POINTS.
  - RAISE THE LIFT UNTIL VEHICLE IS APPROXIMATELY 6” OFF OF THE GROUND. CHECK THE VEHICLE’S STABILITY ON THE LIFT BY SHAKING THE VEHICLE BY THE TIRE OR BUMPER. REFER TO THE “LIFTING IT RIGHT” GUIDE INCLUDED WITH THIS MANUAL.
  - RAISE THE VEHICLE TO THE DESIRED WORKING HEIGHT.
  - SET THE VEHICLE ON THE MECHANICAL LOCKS.
- 9 ALWAYS SET THE VEHICLE ON THE MECHANICAL LOCKS, HYDRAULICS ARE USED TO LIFT A VEHICLE, THE MECHANICAL LOCKS ARE USED TO SUPPORT THE VEHICLE WEIGHT WHEN RAISED TO WORKING HEIGHT.**
- 10 NEVER RAISE A LIFT WITH A PASSENGER INSIDE THE VEHICLE.**
- 11 THE REMOVAL OR INSTALLATION OF SOME VEHICLE PARTS, (I.E: TRANSMISSIONS AND ENGINES.), MAY CAUSE A CRITICAL LOAD SHIFT IN THE CENTER OF GRAVITY AND MAY CAUSE THE VEHICLE TO BECOME UNSTABLE.**
  - REFER TO THE VEHICLE MANUFACTURER’S SERVICE MANUAL FOR RECOMMENDED PROCEDURES.
  - THE USE OF HIGH REACH JACK STANDS FOR FURTHER STABILITY IS RECOMMENDED.
- 12 CARE MUST BE TAKEN WHEN WORKING ON A VEHICLE.**
  - BURNS CAN OCCUR FROM CONTACTING HOT PARTS.
- 13 KEEP HAIR, LOOSE CLOTHING, JEWELRY, FINGERS, AND ALL PARTS THE BODY AWAY FROM MOVING PARTS.**
- 14 TO REDUCE THE RISK OF FIRE.**
  - DO NOT OPERATE EQUIPMENT IN THE VICINITY OF OPEN CONTAINERS OF FLAMMABLE LIQUIDS. E.G: GASOLINE.
- 15 ADEQUATE VENTILATION SHOULD BE PROVIDED WHEN WORKING ON INTERNAL COMBUSTION ENGINES.**
- 16 BEFORE LOWERING, CHECK THE AREA UNDER AND AROUND EQUIPMENT FOR OBSTRUCTIONS.**
- 17 BEFORE REMOVING THE VEHICLE FROM THE LIFT AREA, POSITION THE SWING ARMS TO ALLOW THE VEHICLE TO FREELY LEAVE THE LIFTING AREA.**
  - DO NOT HIT OR RUN OVER THE SWING ARMS, THIS COULD DAMAGE THE VEHICLE AND/OR THE LIFT.
- 18 ALWAYS WEAR SAFETY GLASSES AND ALL PPE AS REQUIRED FOR THE WORK PERFORMED.**

## WARRANTY:

TO REGISTER YOUR LIFT, GO TO [HTTPS://USA.WWW.MOHAWKLIFTS.COM/WARRANTY](https://usa.www.mohawklifts.com/warranty)

### MOHAWK WARRANTIES

EFFECTIVE DATE: 11/15/2025\*  
READ THIS WARRANTY IN ITS ENTIRETY

#### GENERAL WARRANTY INFORMATION:

MOHAWK'S OBLIGATION UNDER THIS WARRANTY IS LIMITED TO REPAIRING OR REPLACING ANY PART OR PARTS RETURNED TO THIS FACTORY, TRANSPORTATION CHARGES PREPAID BY CUSTOMER WITH AUTHORIZED RETURN (RGA), WHICH PROVE UPON INSPECTION TO BE DEFECTIVE AND WHICH HAVE NOT BEEN MISUSED. DAMAGE OR FAILURE TO ANY PART DUE TO FREIGHT DAMAGE OR LACK OF REQUIRED REGULAR DOCUMENTED MAINTENANCE IS NOT COVERED UNDER THIS WARRANTY. ALL WARRANTY CLAIMS MUST BE PERFORMED IN ACCORDANCE TO MOHAWK'S WARRANTY PARTS RETURN POLICY (CONTACT MOHAWK'S SERVICE DEPARTMENT FOR MORE INFORMATION).

THIS WARRANTY DOES NOT COVER MIS-DIAGNOSING OF UNIT OR PARTS RETURNED THAT ARE NON-DEFECTIVE. THIS WARRANTY DOES NOT COVER ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOST REVENUES OR BUSINESS HARM. THIS EQUIPMENT HAS BEEN DESIGNED FOR USE IN NORMAL VEHICLE MAINTENANCE APPLICATIONS. A SPECIFIC INDIVIDUAL WARRANTY MUST BE ISSUED FOR UNITS THAT DEVIATE FROM INTENDED USAGE, SUCH AS HIGH CYCLE USAGE IN INDUSTRIAL APPLICATIONS, OR USAGE IN EXTREMELY ABUSIVE ENVIRONMENTS. MOHAWK RESERVES THE RIGHT TO DECLINE RESPONSIBILITY WHEN REPAIRS OR MODIFICATIONS HAVE BEEN MADE OR ATTEMPTED BY OTHERS WITHOUT WRITTEN AUTHORIZATION FROM MOHAWK LIFTS LLC.. THIS WARRANTY DOES NOT COVER LABOR OR TRANSPORTATION. THIS WARRANTY DOES NOT COVER DOWNTIME EXPENSES INCURRED WHEN UNIT IS IN REPAIR. **THE LIFT MUST BE REGISTERED WITHIN 30 DAYS OF INSTALLATION BY MAILING SUPPLIED WARRANTY REGISTRATION CARD TO MOHAWK AND MUST BE SIGNED BY A LICENSED ELECTRICIAN.** THE MODEL NUMBER AND SERIAL NUMBER OF THE EQUIPMENT MUST BE FURNISHED WITH ALL WARRANTY CLAIMS. THIS WARRANTY STATEMENT CONTAINS THE ENTIRE AGREEMENT BETWEEN MOHAWK LIFTS LLC. AND THE PURCHASER UNLESS OTHERWISE SPECIFICALLY EXPRESSED IN WRITING. THIS NON-TRANSFERABLE WARRANTY APPLIES TO THE ORIGINAL PURCHASER ONLY.

THIS WARRANTY DOES NOT COVER NORMAL SURFACE WEAR ITEMS, ITEMS SUBJECT TO ABRASION, OR ITEMS USED IN A CORROSIVE ENVIRONMENT. SOME ITEMS ON LIFT ARE SUBJECT TO NORMAL "WEAR AND TEAR" AND ARE NOT COVERED UNDER THIS WARRANTY.

#### STRUCTURAL AND MECHANICAL COMPONENTS (ALL LIFTS):

STRUCTURAL AND MECHANICAL COMPONENTS OF THIS UNIT ARE GUARANTEED FOR THE BELOW STATED TIME FRAME, SPECIFIC TO MODEL LISTED, FROM THE DATE OF SHIPMENT FROM FACTORY, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS. IN CASES WHERE THE UNIT IS PURCHASED FOR RESALE BY AN AUTHORIZED STOCKING DISTRIBUTOR, THE WARRANTY PERIOD SHALL COMMENCE ON THE EARLIER OF (A) THE DATE THE LIFT IS PURCHASED BY THE END USER, OR (B) TWO (2) YEARS FROM THE DATE OF SHIPMENT FROM THE FACTORY, ALLOWING THE DISTRIBUTOR A RESALE PERIOD OF UP TO TWO YEARS.

**25-YEARS STRUCTURAL / 10 YEARS MECHANICAL:** TWO-POST MODELS A-7, SYSTEM IA-10, LC-12, LMF-12, TP-16, TP-18, ML-220, ML-220-XL, TP-20 TP-26, TP-30, LTX, MHX. STRUCTURAL ITEMS COVERED INCLUDE LEG, CARRIAGE, SWING ARM AND SLIDER WELDMENTS (EXCLUDING NORMAL WEAR AREAS AS STATED ABOVE). MECHANICAL ITEMS COVERED INCLUDE ROLLER BEARINGS AND LIFTING CHAIN.

**3-YEAR:** MODELS TR-19, TR-25, FL-25, TR-30, TR-33, TR-35, TR-50, TR-75, TR-110, TR-120, MP-000, 500, 600 & 700 Series

**2-YEAR:** MODELS PARALLELOGRAM AND VERTICAL RISE SERIES LIFTS

**1-YEAR:** MODELS, TD-1000, TD-2000, CT-1000, USL-6000.

#### POWER UNIT (ALL LIFTS):

ALL POWER UNIT COMPONENTS (MOTOR, PUMP AND RESERVOIR) ARE GUARANTEED FOR TWO YEARS FOR PARTS, FROM THE DATE OF SHIPMENT FROM FACTORY, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED, WIRED BY A LICENSED ELECTRICIAN AND USED ACCORDING TO SPECIFICATIONS.

#### ELECTRICAL COMPONENTS (ALL LIFTS):

ALL ELECTRICAL COMPONENTS (EXCLUDING MOTOR) ARE GUARANTEED FOR ONE YEAR FOR PARTS, FROM THE DATE OF SHIPMENT FROM FACTORY, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS. SEE WARRANTY EXCEPTIONS SECTION FOR BATTERIES.

**PNEUMATIC-AIR COMPONENTS (ALL LIFTS):**

ALL PNEUMATIC (AIR) COMPONENTS (I.E. AIR CYLINDERS AND POPPET AIR VALVES) ARE GUARANTEED FOR ONE YEAR FOR PARTS, FROM THE DATE OF SHIPMENT FROM FACTORY, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS. COMPONENTS IN A PNEUMATIC SYSTEM THAT ARE NOT PROPERLY REGULATED, LUBRICATED AND CONDITIONED WITH AN AIR DRYING SYSTEM ARE NOT COVERED UNDER WARRANTY.

**HYDRAULIC COMPONENTS (ALL LIFTS):**

EXCLUDING CYLINDERS AND PUMPS (COVERED IN OTHER SECTIONS), ALL HYDRAULIC COMPONENTS (I.E. VALVES AND FITTINGS) ARE GUARANTEED FOR ONE YEAR FOR PARTS, FROM THE DATE OF SHIPMENT FROM FACTORY, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

**HYDRAULIC CYLINDERS (MODEL SPECIFIC LIFTS):**

THE FOLLOWING MODELS ARE GUARANTEED FOR 5 YEARS (PARTS ONLY), FROM DATE OF SHIPMENT FROM FACTORY, FOR HYDRAULIC CYLINDERS, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS: TWO-POST MODELS A-7, SYSTEM IA-10, LC-12, LMF-12, TP-16, TP-18, TP-20, TP-26, TP-30.

ALL OTHER MODELS ARE GUARANTEED FOR TWO YEARS (PARTS ONLY), FROM THE DATE OF SHIPMENT FROM FACTORY, FOR HYDRAULIC CYLINDERS, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS (EXCLUDING USL-6000, WHICH IS ONE YEAR).

THE "EXTENDED LIFETIME CYLINDER SEAL WARRANTY" (BELOW) IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: TWO-POST MODELS A-7, SYSTEM IA-10, LC-12, LMF-12, TP-16, TP-18, TP-20, TP-26, TP-30, LTX, MHX. SEE MOHAWK'S "EXTENDED LIFETIME CYLINDER SEAL WARRANTY" FOR SPECIFIC WARRANTY PROVISIONS FOR HYDRAULIC CYLINDERS.

THE "EXTENDED LIFETIME CYLINDER SEAL WARRANTY" IS AS FOLLOWS:

AS THE ORIGINAL PURCHASER OF A MOHAWK LIFT MANUFACTURED BY MOHAWK LIFTS, LLC. YOU ARE ENTITLED TO AN EXTENDED CYLINDER SEAL WARRANTY.

MOHAWK'S OBLIGATION UNDER THIS WARRANTY IS LIMITED TO SUPPLYING MODEL SPECIFIC CYLINDER SEALS. THE CUSTOMER IS RESPONSIBLE FOR SHIPPING AND HANDLING OF THE SEALS. MOHAWK IS NOT RESPONSIBLE/LIABLE FOR THE REBUILD OF CYLINDERS BY OTHERS. THIS WARRANTY IS NON-TRANSFERABLE AND RUNS TO THE ORIGINAL PURCHASER ONLY.

**STANDARD OPTIONS (ALL LIFTS):**

ALL STANDARD OPTIONS OF THIS UNIT ARE GUARANTEED FOR ONE YEAR FOR PARTS, FROM THE DATE OF SHIPMENT FROM FACTORY, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

**LIFTPPOINT MODELS:** LTX & MHX OPTIONS ARE GUARANTEED FOR THREE YEARS FOR PARTS, FROM THE DATE OF SHIPMENT FROM FACTORY, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

**800 SERIES MOBILE COLUMNS:** MP-800 SERIES LIFT AND LIFT OPTIONS ARE GUARANTEED FOR ONE YEAR FOR PARTS, FROM THE DATE OF SHIPMENT FROM FACTORY, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

**CUSTOM LIFTS AND CUSTOM OPTIONS:**

ALL "CUSTOM" LIFTS AND/OR "CUSTOM" OPTIONS ARE GUARANTEED FOR ONE YEAR FOR PARTS, FROM THE DATE OF SHIPMENT FROM FACTORY, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

**WARRANTY EXCEPTIONS (ALL LIFTS):**

**ADJUSTMENTS:** THIS WARRANTY DOES NOT COVER CASUAL AND ROUTINE ADJUSTMENTS SUCH AS, BUT NOT LIMITED TO: FITTINGS, SENSORS AND SWITCHES, ANCHOR BOLT RE-TIGHTENING, OR ANY SHIMMING OR ADJUSTMENTS REQUIRED DURING A PROPER AND PROFESSIONAL INSTALLATION BY A QUALIFIED INSTALLER.

**MAINTENANCE AND INSPECTIONS:** IF THIS UNIT IS NOT MAINTAINED AND INSPECTED IN ACCORDANCE TO THE RELEVANT SECTIONS IN THE USERS MANUAL FOR THIS SPECIFIC MODEL, WARRANTY IS VOID. OSHA, ANSI AND MOHAWK REQUIRE THAT RECORDS MUST BE MAINTAINED TO PROVE THAT INSPECTIONS AND MAINTENANCE OF THIS UNIT HAVE BEEN ROUTINELY PERFORMED BY QUALIFIED INDIVIDUALS.

**ABUSE:** IF THIS UNIT IS FOUND TO BE OVERLOADED (PURPOSELY OR UNKNOWINGLY), USED IN A SITUATION BEYOND ITS INTENDED FUNCTION, NOT MAINTAINED & INSPECTED REGULARLY, USED IN AN ABUSIVE ENVIRONMENT OR BEYOND NORMAL SHOP USAGE, THIS WARRANTY IS VOID IN ITS ENTIRETY.

**NON-EXISTENT PROBLEMS:** FOR SERVICE VISITS, PART REPLACEMENTS, LABOR, ETC. FOR PARTS FOUND TO BE NON-DEFECTIVE, OR FOR A UNIT DIS-FUNCTION THAT DOES NOT EXIST, IT IS THE LIFT OWNER THAT REQUESTED THE SERVICE VISIT WHO BEARS THE RESPONSIBILITY OF ALL RELATED EXPENSES.

**BATTERIES:** ALL BATTERIES CARRY THE BATTERY MANUFACTURER'S WARRANTY. MAINTENANCE REQUIREMENTS AND ABUSE PROVISIONS ARE AS STATED BY THE BATTERY MANUFACTURER. REFER TO BATTERY MANUFACTURER'S WARRANTY.

**SPECIAL/MODIFIED INSTALLATIONS:** THIS WARRANTY DOES NOT COVER "NON-TRADITIONAL" INSTALLATIONS. INSTALLATIONS ARE TO BE DONE ACCORDING TO SPECIFICATIONS, OR THE WARRANTY IS VOID.

**WEARABLE COMPONENTS:** SOME ITEMS ON LIFTS ARE SUBJECT TO NORMAL "WEAR AND TEAR" AND ARE NOT COVERED UNDER THIS WARRANTY.

**NON-VEHICLE / RE-PURPOSED LIFTS:** THIS WARRANTY DOES NOT COVER LIFTS THAT ARE "RE-PURPOSED" TO RAISE AND LOWER EQUIPMENT THAT ARE NOT CONSIDERED VEHICLES.

\* THIS WARRANTY SUPERSEDES ALL OTHER WARRANTY POLICIES PREVIOUSLY STATED AND IN ALL OTHER MOHAWK PRODUCT SPECIFIC LITERATURE (MANUALS, BROCHURES, ETC.).

Rev  
11/20/2025

## ALI INFORMATION:



THE **AUTOMOTIVE LIFT INSTITUTE (ALI)** IS A TRADE ASSOCIATION COMPRISED OF US AND CANADIAN MANUFACTURERS, AND CERTAIN NATIONAL DISTRIBUTORS OF AUTOMOTIVE LIFTS. ESTABLISHED IN 1945, **ALI**, WORKING IN COOPERATION WITH THE **AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)**, HAS CONTINUED TO SPONSOR THE NATIONAL STANDARD:

**ANSI/ALI ALCTV: "SAFETY REQUIREMENTS FOR CONSTRUCTION, TESTING, AND VALIDATION FOR AUTOMOTIVE LIFTS."**

THE "ALI/ETL AUTOMOTIVE LIFT CERTIFICATION PROGRAM" IS BASED ON ALI DEVELOPED METHODS AND CRITERIA FOR THIRD PARTY TESTING OF AUTOMOTIVE LIFTS TO VALIDATE CONFORMANCE WITH **ANSI/ALI ALCTV**.

FOR AUTOMOTIVE LIFTS TO BE CERTIFIED, MANUFACTURERS MUST EXECUTE AN AGREEMENT WITH THE ALI AND A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AND MUST MEET CERTAIN REQUIREMENTS:

- MUST BE STRUCTURALLY TESTED IN ACCORDANCE WITH THE TEST REQUIREMENTS AS OUTLINED IN **ANSI/ALI ALCTV**.
- ALL MOTOR OPERATED UNITS MUST BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) IN ACCORDANCE WITH **ANSI/UL-201**.
- THE MANUFACTURER'S PRODUCTION FACILITY MUST MEET QUALITY CONTROL REQUIREMENTS AS SET FORTH IN THE **ANSI Z34.1-19 7** AND THE ALI AUTOMOTIVE LIFT CERTIFICATION PROGRAM PROCEDURAL GUIDE.
- ALL MANUFACTURER PROVIDED INSTRUCTIONS, MANUALS, AND OPERATOR SAFETY DOCUMENTS MUST MEET THE REQUIREMENTS OF THE **ANSI/ALI ALCTV**, AND **ANSI/UL-201**.

LIFTS MEETING THESE RIGID REQUIREMENTS MAY BE LISTED IN THE DIRECTORY OF CERTIFIED LIFTS AND BE LABELED WITH THE "ALI CERTIFICATION MARK" (ABOVE ON RIGHT), AND IF APPLICABLE THE LISTING MARK TO ANSI/UL-201.

**MOHAWK LIFTS IS THE SECOND OLDEST MEMBER OF ALI.**

**A LIST OF ALL OF MOHAWK LIFTS ALI CERTIFIED LIFTS CAN BE FOUND ON THE ALI WEBSITE AT:**

[WWW.AUTOLIFT.ORG](http://WWW.AUTOLIFT.ORG)

**SOME PEOPLE PURCHASE QUALITY LIFTS AND OTHERS DO NOT. YOU ARE ASSURED OF QUALITY WHEN YOU PURCHASE A MOHAWK LIFT IN COMPLIANCE WITH THE ALI CERTIFICATION PROGRAM.**

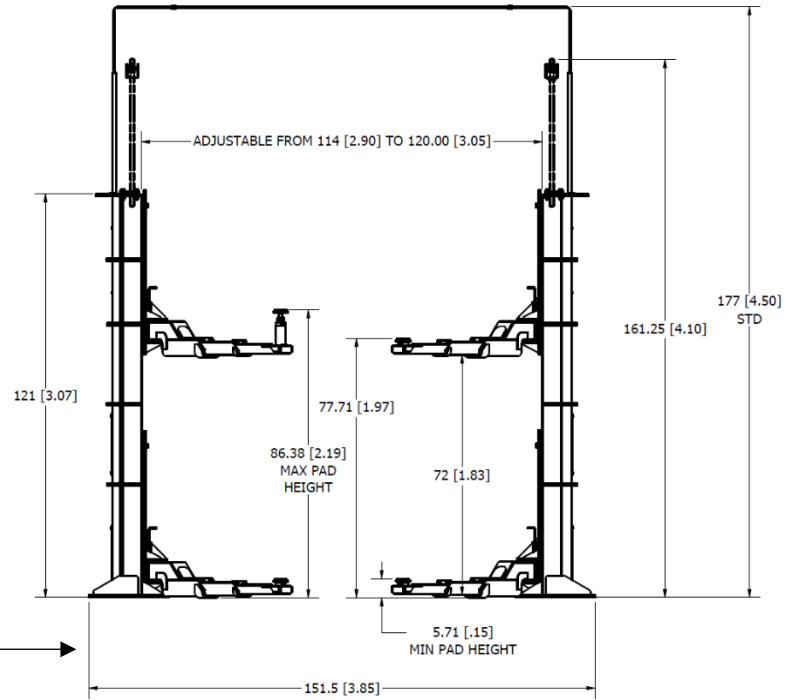
## LIFT SPECIFICATIONS:

### CAPACITY:

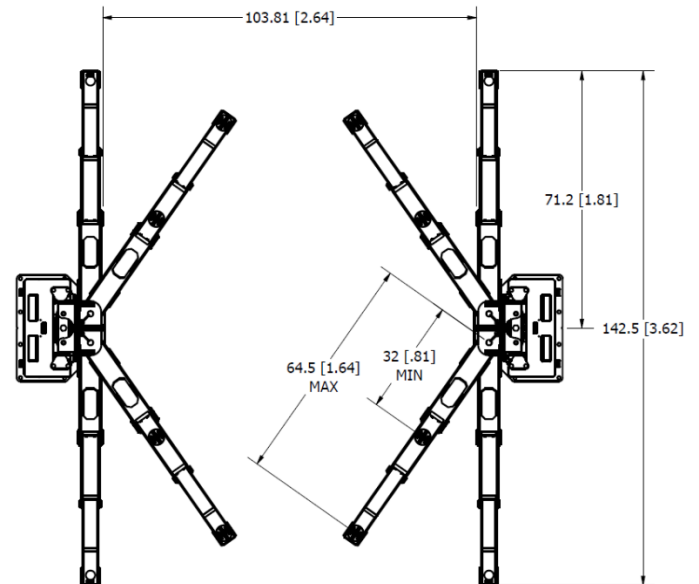
**20,000 LBS**

### ML-220XL SPECIFICATONS

- **MOTOR RATING:** 3 HP 230V, SINGLE-PHASE
  - (3 PHASE OPTIONAL)
- **SYNCHRONIZATION:** HYDRAULIC FLUID DISPLACEMENT USING NO CHAINS, CABLES, OR OVERHEAD OBSTRUCTIONS
- **ARM PAD HEIGHT:** 5.75" (12.7 CM) MIN.
- **LIFTING HEIGHT:** 6' (1.83 M) UNDER ARM
- **LIFT PAD HEIGHT @ FULL RISE:** 6' 5" (1.96 M)
- **OVERALL WIDTH:** 12' 7-1/2" (3.84 M) (ADJUSTABLE)
- **WIDTH BETWEEN POSTS:** 10' (3.05 M) (ADJUSTABLE) (114"-120")
- **WIDTH BETWEEN LIFTING ARMS:** 8' 8" (2.69 M) (ADJUSTABLE)
- **COLUMN HEIGHT:** 10' 1" (2.62 M)
- **MAX LIFT HEIGHT:** 13'6" (TO THE TOP OF THE LIFTING RODS)
- **OVERHEAD HYDRAULIC LINE HEIGHT:** 15' (4.57 M) STANDARD (ADJUSTABLE TO ACCOMMODATE ANY HEIGHT CEILING OR ROUTED IN-FLOOR)
- **WEIGHT:** 4300 LBS. (1.406.13 KG)
- **CONCRETE FLOOR REQUIREMENTS:** 4000 PSI (27579.02 KPA) MIX
- **ANCHORING SYSTEM:** INCLUDED WEJ-IT 3/4"X 6" (1.9X15.2 CM) BOLTS.
- **MECHANICAL SAFETY LOCKS:** AUTOMATIC; MULTI-POSITION STARTING AT 5" OFF OF THE FLOOR
- **HYDRAULIC SAFETY SYSTEMS:** AUTOMATIC; ALL POSITION
- **SWING ARM RESTRAINTS:** AUTOMATIC UPON ASCENT
- **CYLINDERS:** 2 (1 PER COLUMN)
- **DRIVE SYSTEM:** DIRECT DRIVE (USING NO CABLES OR CHAINS)
- **3" FRAME ADAPTORS (STACKABLE):** 4 INCLUDED AS STANDARD EQUIPMENT
- **6" FRAME ADAPTORS (STACKABLE):** 4 INCLUDED AS STANDARD EQUIPMENT
- **4" STEEL CARRIAGE BEARINGS:** 8 PER CARRIAGE, DOUBLE SEALED, SELF-LUBRICATING
- **FLOOR ACCESS BETWEEN POSTS:** CLEAR AND UNOBSTRUCTED
- **WARRANTY:** 25 YEARS STRUCTURAL, 10 YEAR MECHANICAL, PLUS LIMITED LIFETIME CYLINDER SEAL WARRANTY



SHOWN WITH ADJUSTABLE HEIGHT OVER-HEAD STEEL HYDRAULIC LINES



WIDE BASE OUTSIDE DIMENSION 163.5"

## POWER SUPPLY REQUIREMENTS:

### STANDARD:

SINGLE PHASE: 208/230 VOLT AC. 24.3/22 FULL LOAD AMPS.

USE A QUALIFIED ELECTRICIAN TO INSTALL THE ELECTRICAL SERVICE FOR THE LIFT.

FOLLOW ALL LOCAL AND NATIONAL ELECTRICAL CODES WHEN INSTALLING ELECTRICAL SERVICE FOR THIS EQUIPMENT.

THE POWER UNIT COMES PRE-WIRED AND THE FEMALE CONNECTOR IS IN THE PARTS BOX FOR THE ELECTRICIAN TO WIRE INTO BUILDING POWER.

## CONTACT INFORMATION:

# MOHAWK LIFTS

**Mohawk Lifts, LLC**  
P.O. Box 110, 65 Vrooman Ave  
Amsterdam, NY 12010  
Phone: 518-842-1431  
Fax: 518-842-1289  
Toll Free: 1-800-833-2006  
[www.mohawklifts.com](http://www.mohawklifts.com)

### SERVICE DEPARTMENT

518-842-1431 EXT.3000

[SERVICE@MOHAWKLIFTS.COM](mailto:SERVICE@MOHAWKLIFTS.COM)

### PARTS DEPARTMENT

518-842-1431 EXT.3300

[PARTS@MOHAWKLIFTS.COM](mailto:PARTS@MOHAWKLIFTS.COM)

## INSTALLATION

REFER TO: ANSI/ALI ALIS, SAFETY REQUIREMENTS FOR INSTALLATION AND SERVICE OF AUTOMOTIVE LIFTS. FOR THE REQUIREMENTS OF THE INSTALLATION OF THE LIFT.

### RECOMMENDED TOOL LIST:

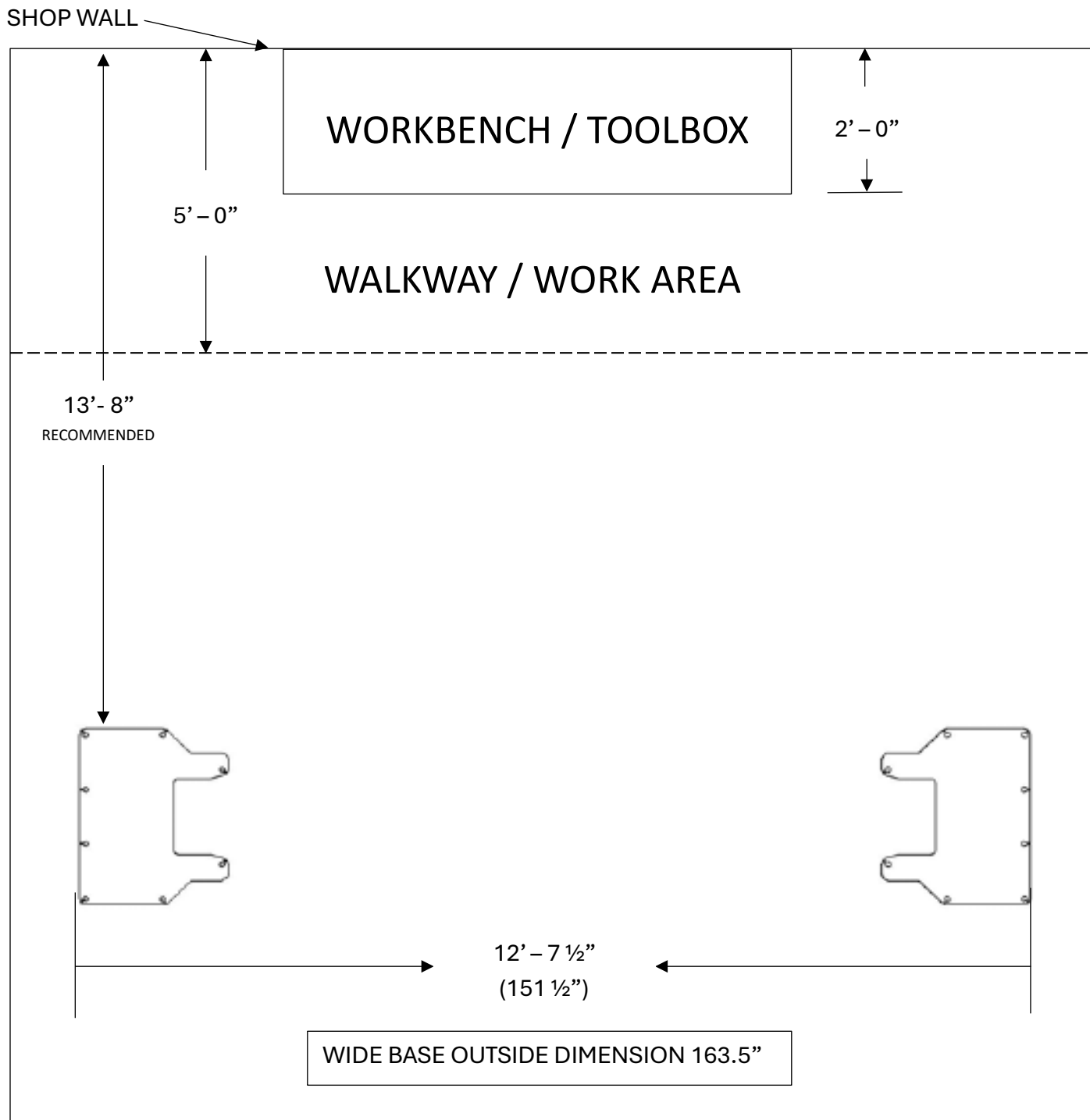
SIZE / QTY	DESCRIPTION	USE
1 - 1/8 IN	WRENCH & SOCKET	WEJ-IT ANCHORS
15 / 16 IN	WRENCH & SOCKET	CARRIAGE STOPS
11/16 IN	WRENCH	HYDRAULIC LINES
5/8 IN	WRENCH	HYDRAULIC LINES
1/2 IN	WRENCH & SOCKET	PROTECTIVE SHIPPING BOARD
7/16 IN	WRENCH & SOCKET	HYDRAULIC LINE CLIPS
2 1/4 IN	WRENCH & SOCKET	SWING ARM PINS
1	RATCHET WRENCH	AS NEEDED
1	SNAP RING PLIERS	AS NEEDED
1	VICE GRIPS	AS NEEDED
2 ¼ IN	CRESCENT WRENCH	AS NEEDED
1	4 FT BUBBLE LEVEL	VERIFY LEVEL ASSEMBLY
1	PRY BAR	MOVING HEAVY ITEMS
1	TIN SNIPS	PACKAGING BANDING
1	CHALK LINE	FLOOR LAYOUT
1	SOAP STONE	FLOOR LAYOUT
1	25 FT TAPE MEASURE	FLOOR LAYOUT / SQUARING POST
1	MEDIUM HAMMER	WEJ-IT ANCHORS
1	HAMMER DRILL	DRILLING CONCRETE
3/4 INCH	MASONRY DRILL BIT (NEW)	DRILLING CONCRETE
1 TON	LIFTING DEVICE W/SLING	LIFTING / MOVING HEAVY ITEMS
8 FT	STEP LADDER	ASSEMBLE ELEVATED ITEMS
100 FT	LEAD CORD	OPERATE ELECTRICAL TOOLS
UP TO 2 GAL.	DEXRON III ATF	RESERVOIR REFILL

## BAY INSPECTION:

BEFORE SETTING UP THE LIFT, THE INSTALLATION SITE NEEDS TO BE INSPECTED TO ENSURE THAT THE SITE IS SUITABLE FOR THE LIFT AREA.

PLEASE FOLLOW THE INSTALLATION SITE REQUIREMENTS IN THIS MANUAL FOR BAY REQUIREMENTS.

**BAY LAYOUT: ENSURE THAT THERE IS ADEQUATE CLEARANCE AROUND THE LIFT**  
THIS SUGGESTED LAYOUT CAN BE LESS IF THERE IS NO TOOLBOX OR WORKBENCH.



## MEASURE AND MARK THE INSTALLATION SITE:

PLAN OUT THE INSTALL SITE: BASED OFF OF THE RECOMMENDED BAY SITE LAYOUT AND ENSURING THAT THE INSTALL WILL NOT SPAN EXPANSION JOINTS MEASURE AND MARK THE FLOOR.

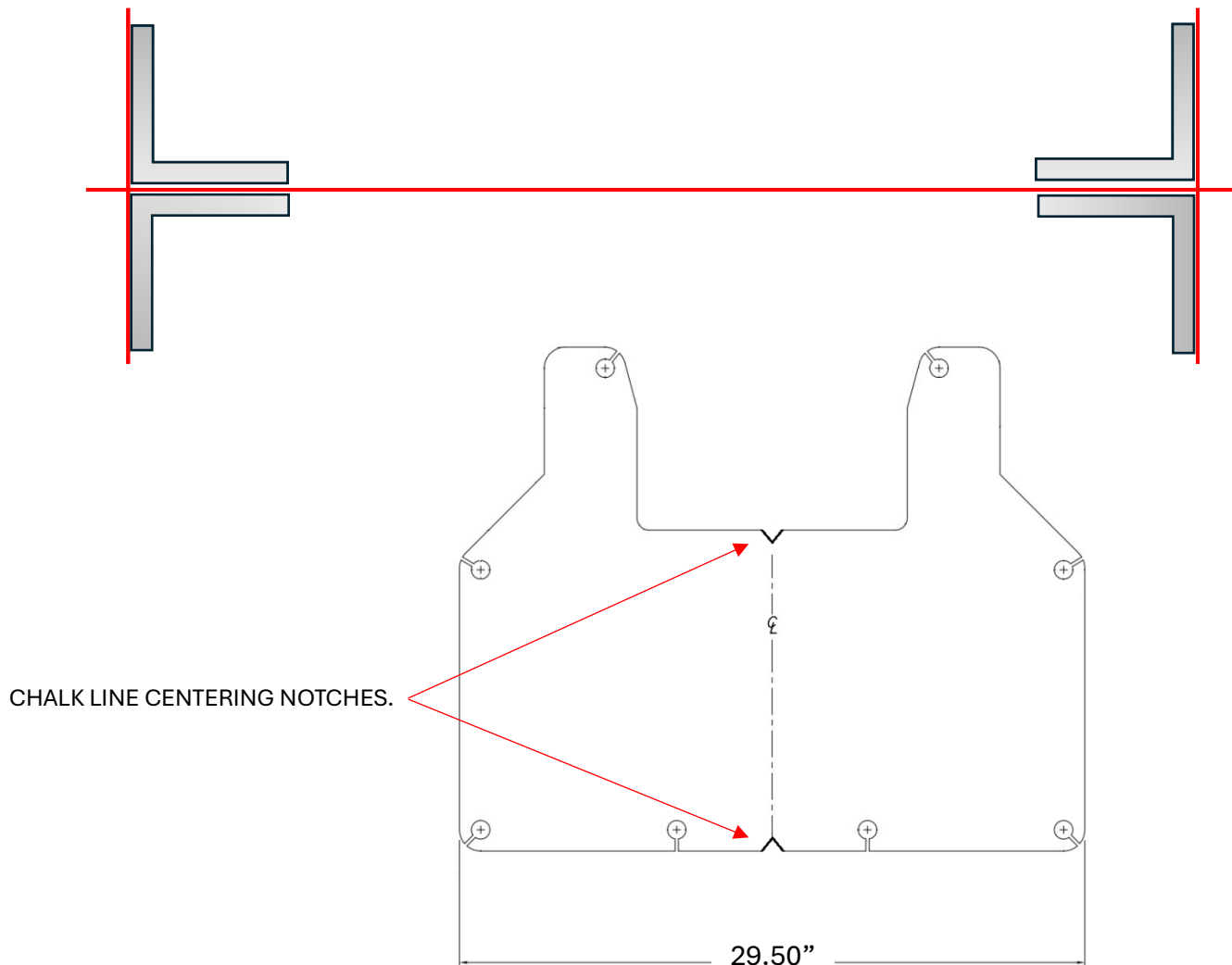
PLAN THE SITE ACCORDINGLY TO HAVE ROOM TO MANEUVER AROUND THE COLUMNS THE MAINSIDE WILL HAVE THE POWER UNIT ATTACHED, LEAVE ROOM TO BE ABLE TO USE THE CONTROLS.

IF THE FLOOR IS UNEVEN MAKE SURE TO PLACE THE MAIN SIDE COLUMN ON THE "HIGH" SIDE. RUN POWER TO THE LIFT ACCORDINGLY.

THE LIFT COLUMNS HAVE NOTCHES AT THE CENTER POINT OF THE BASES TO ASSIST WITH LINING UP THE COLUMNS ON THE CHALK LINES.

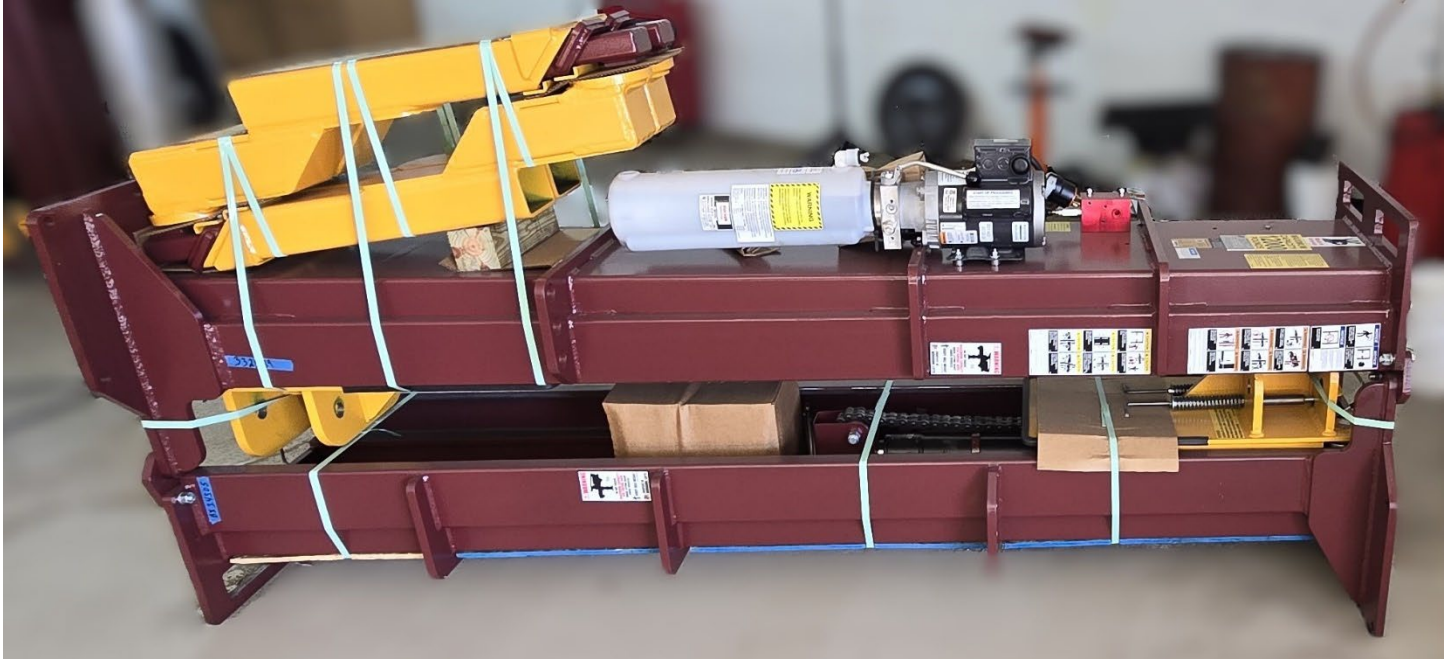
1. MEASURE OUT THE CENTER LINE USING A FIXED POSITION OF THE INSTALL BAY: FOR EXAMPLE A WALL
  - A. MAKE TWO MEASUREMENTS AT POINTS WIDER THAN THE OVERALL OUTSIDE DIMENSION OF THE LIFT FOR EXAMPLE THE OUTSIDE DIMENSION IS 151 ½" MARK THE LINE AT 160"
  - B. USING A CHALK LINE, CONNECT THESE TWO MARKS.
2. MEASURE THE OUTSIDE TO OUTSIDE DIMENSION OF THE COLUMN BASES ON YOUR INITIAL LINE KEEPING ADEQUATE SPACE BETWEEN OTHER OBJECTS FOR TO MOVE AROUND THE LIFT
3. USING A SQUARE MARK THE LINES FOR THE BACK OF THE COLUMN BASE PLATE.

THESE LINES WILL BE YOUR REFERENCE LINES TO SET THE COLUMNS IN PLACE.



## UNPACKING YOUR LIFT: (PICTURES ARE A REPRESENTATION, NOT NECESSARILY THE ACTUAL LIFT MODEL)

THE LIFT WILL COME AS ONE COMPLETE UNIT WRAPPED IN PLASTIC FOR SHIPMENT. REMOVE THE PLASTIC AND INSPECT THE LIFT. IF THERE ARE ANY ISSUES WITH THE LIFT FROM SHIPPING, CONTACT THE SHIPPING COMPANY TO REPORT THE DAMAGE, TAKE PICTURES, THEN PLEASE CONTACT MOHAWK LIFTS LLC. SERVICE DEPARTMENT FOR ASSISTANCE.



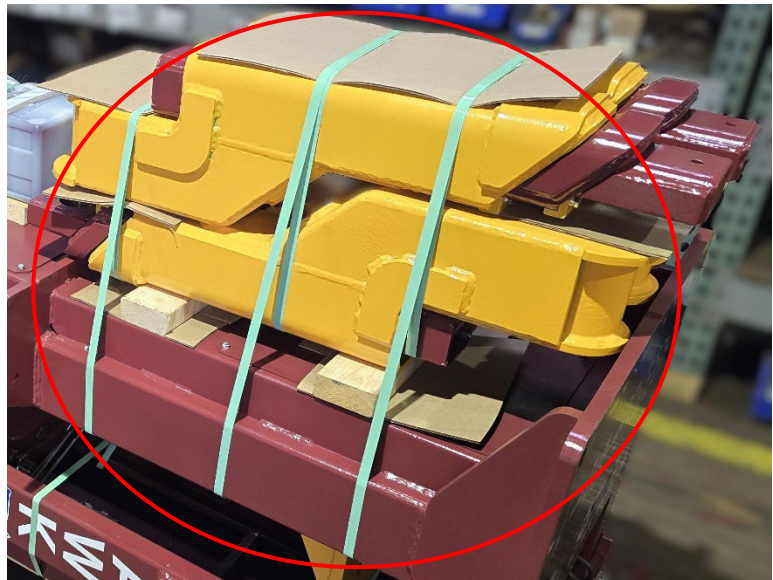
REMOVE THE SWING ARMS FROM THE TOP OF THE LIFT BY REMOVING THE SHIPPING STRAPS.

- USE CAUTION WHEN REMOVING THESE STRAPS AS THEY ARE UNDER TENSION.
- THE SWING ARMS MAY HAVE SHIFTED DURING TRANSPORT, USE CARE WHEN REMOVING STRAPS
- THE SWING ARMS ARE HEAVY, USE LIFTING EQUIPMENT OR ADDITIONAL ASSISTANCE WHEN MOVING THE SWING ARMS. SET THE SWING ARMS TO THE SIDE FOR LATER INSTALLATION.

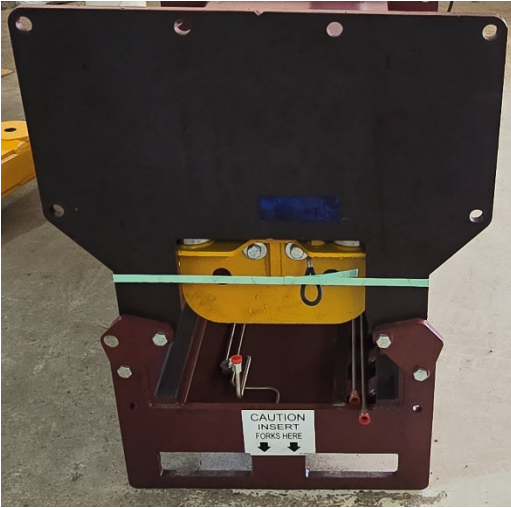
REMOVE THE STRAPS THAT ARE SHOWN IN THE PICTURE.  
LEAVE ALL REMAINING STRAPS ON THE LIFT UNTIL INSTRUCTED TO REMOVE THEM.

### CAUTION

SWING ARMS ARE HEAVY APPROX. 180 LBS  
USE TWO PEOPLE OR A LIFTING DEVICE TO  
LIFT THE SWING ARMS.  
SLIDERS MAY SHIFT WHEN LIFTED, USE  
CAUTION WHEN LIFTING.



MOVE THE LIFT TO THE INSTALL AREA, USING A FORKLIFT WITH A 4300LB MINIMUM CAPACITY, BY EITHER PICKING UP FROM THE FORK POCKETS, LOCATED AT THE END OF THE LIFT, OR CAREFULLY FROM THE SIDE TAKING CARE TO BALANCE THE LIFT ON THE FORKLIFT. THE BOTTOM COLUMN HAS WOOD PIECES ATTACHED TO PROTECT THE COLUMN DURING SHIPPING AND POSITIONING.



FORK POCKETS



SIDE LOADING POSITION, BE SURE TO BALANCE LOAD DURING TRANSPORT.

ONCE THE LIFT IS IN THE INSTALL AREA BEGIN THE INSTALL PROCESS BY FIRST UNBOLTING THE MAIN SIDE COLUMN FROM THE OFFSIDE.

**THE MAIN SIDE IS THE TOP COLUMN OF THE PACKAGED LIFT WITH THE POWER UNIT ATTACHED.**

THE COLUMNS ARE ATTACHED TOGETHER AT THE ENDS WITH THE CARRIAGE STOPS AND BOLTS.

1. USING A 15/16" WRENCH AND SOCKET, REMOVE THE BOLT FROM THE SIDE OF THE CARRIAGE STOPS THAT ARE IN THE BASE PLATES OF THE OTHER COLUMN. (BASES ARE UNPAINTED)
2. LOOSEN THE BOLTS THAT ARE IN THE TOPS OF THE CORRESPONDING COLUMN (THE TOPS WILL BE PAINTED).
3. SWING THE CARRIAGE STOP TOWARDS THE OPEN HOLE ON THE TOPS OF THE COLUMN.
4. REINSTALL THE BOLTS IN THE CARRIAGE STOPS THROUGH THE CARRIAGE STOP AND THE OPEN HOLES ON THE TOP OF THE CORRESPONDING COLUMN.
5. REPEAT THESE STEPS FOR ALL FOUR CARRIAGE STOPS.

LOOSEN THE BOLTS THAT ARE THROUGH THE TOP OF THE COLUMN

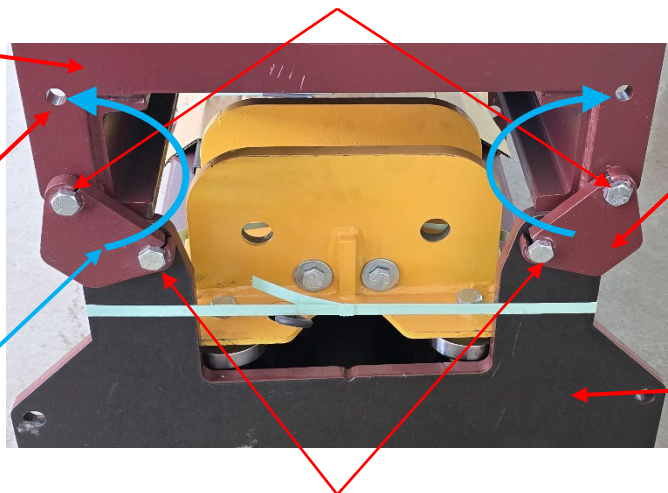
TOP OF COLUMN (PAINTED)

CARRIAGE STOP, 4 TOTAL (2 PER END)

OPEN BOLT HOLE ON TOP MAINSIDE COLUMN

SWING THE CARRIAGE STOP UP TO THE OPEN HOLE

BOTTOM OF COLUMN (UNPAINTED)



REMOVE THE BOLTS THAT ARE THROUGH THE BASE OF ONE COLUMN



TIGHTEN DOWN ALL OF THE BOLTS ENSURING THAT LOCK WASHERS ARE FLAT APPROXIMATELY 120FT/LBS OF TORQUE.



REPEAT THE STEPS FOR THE CARRIAGE STOPS ON THE OPPOSITE END OF THE LIFT. REMOVING THE BOLTS THAT ARE THROUGH THE BASE OF ONE COLUMN AND SWINGING THE CARRIAGE STOP TO INSTALL ON THE TOP OF THE OTHER COLUMN.

ONCE THE CARRIAGE STOPS ARE SET IN PLACE, USING A FORKLIFT, OR AN OVERHEAD CRANE WITH A MINIMUM 3000 LB CAPACITY LIFT THE MAINSIDE COLUMN OFF OF THE OFFSIDE COLUMN. USE CAUTION WHEN PLACING FORKS FOR LIFTING. ENSURE THAT THE COLUMN IS BALANCED ON THE FORKS AND THAT IT IS LIFTED FROM THE FACE OF THE COLUMN AND NOT THE CARRIAGE.



SET THE MAINSIDE COLUMN OFF TO THE SIDE UNTIL READY FOR INSTALLATION.

THE OFFSIDE COLUMN CONTAINS: THE PARTS BOX, HYDRAULIC LINES, AND LINE SUPPORTS FOR THE LIFT. REMOVE THESE ITEMS FROM THE OFFSIDE COLUMN.

VERIFY THAT THE PARTS ARE CORRECT AND SET THEM ASIDE UNTIL NEEDED.

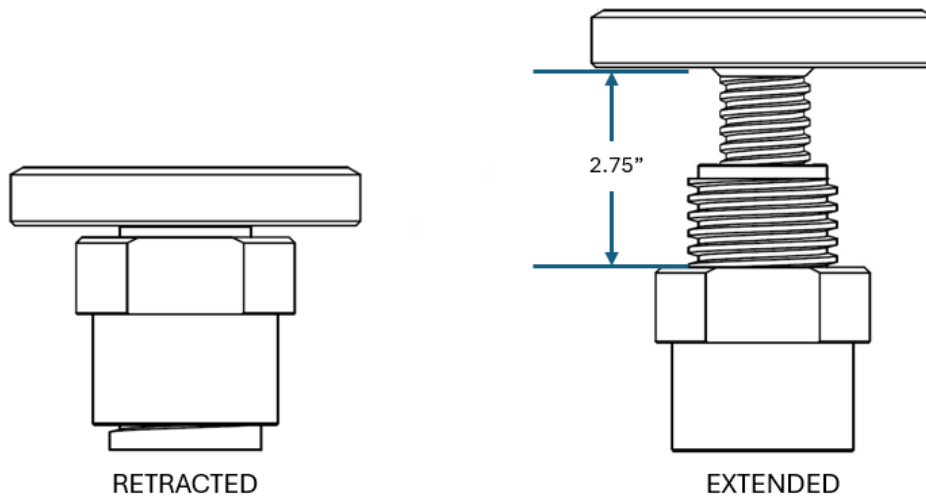
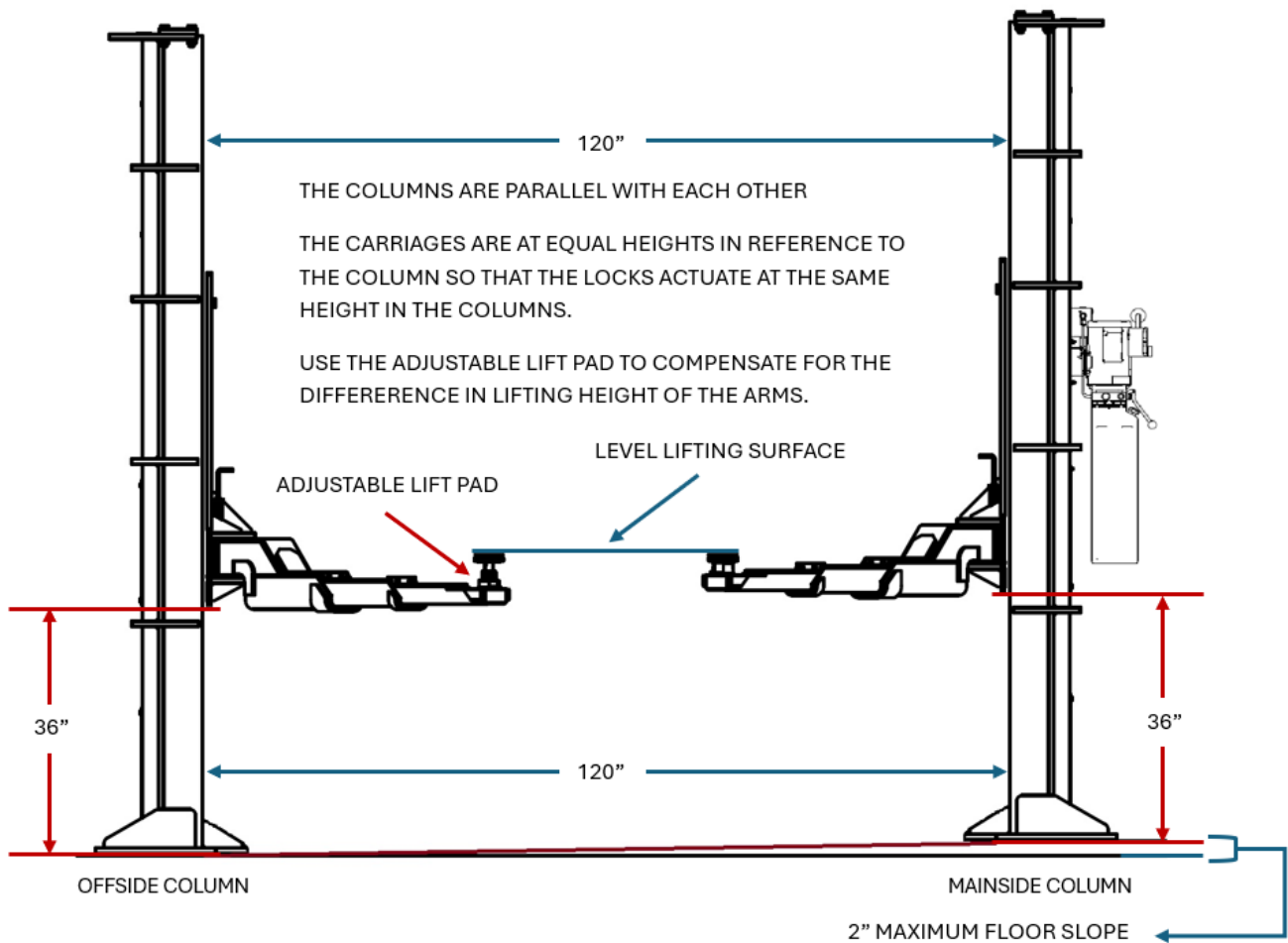
**THESE ITEMS WILL INCLUDE:**

PART NUMBER	DESCRIPTION	QTY
000-001-001	TUBE ASSY 3/8 X 100	2
007-007-033-P	LINE SUPPORT PAINTED	2
012-012-071	TUBE ASSY 3/8 X 100 (90 DEG)	4
ZZ1686-A-215	TUBE ASSY 3/8 X 22.25" ML-220XL	1
ZZ1686-A-216	TUBE ASSY 3/8 X 26.5" ML-220XL	1
<b>PARTS BOX #1 ZZ1686-A-310</b>		
PART NUMBER	DESCRIPTION	QTY
***	MANUAL	1
020-011-080	SPIN-UP LIFT PAD	4
ZZ1686-P-116	CARRIAGE PIN ML-220	4
600-670-003	ANCHOR BOLT 3/4" X 6" (WB)	16 (24)
600-680-007	NUT, PLAIN 1 1/2" - 12NF GR 8	8
600-720-003	LOCKWASHER 1-1/2"	8
601-170-008	LEVITON CONNECTOR PLUG FEMALE	1
<b>PARTS BOX #2 ZZ1686-A-311</b>		
PART NUMBER	DESCRIPTION	QTY
020-011-082	HEIGHT ADAPTER FOR SPIN UPS 3"	4
020-011-083	HEIGHT ADAPTER FOR SPIN UPS 6"	4
<b>SMALL PARTS BAG (IN SMALL PARTS BOX #1)</b>		
PART NUMBER	DESCRIPTION	QTY
600-640-019	BOLT, 1/4 - 20 NC X 1 1/2" GR5	10
600-690-005	NUT, NYLON INSERT LOCK 1/4 - 20 NC	10
600-710-004	FLATWASHER 1/4"	8
600-710-006	FLATWASHER 5/16" FENDER	6
600-740-001	SHIM PLST HORSESHOE 2-5/16X3X1/16 BLUE	8
600-740-002	SHIM PLST HORSESHOE 2-5/16X3X1/8 RED	8
600-740-003	SHIM PLST HORSESHOE 2-5/16X3X1/4 BLACK	8
601-310-171	BREATHER CAP	1
601-420-011	FITTING, UNION. 6JICM-6JICM	4
601-420-017	FITTING 90 DEG. 6ORBM 6JICM	2
601-420-019	FITTING STR 6ORBM 6JICM	2
601-460-010	CAP-CAPLUG BLACK	4
601-710-001	DUAL TUBE CLAMP 3/8"	6

## FLOORING AND COLUMN LEVELING:

IN CIRCUMSTANCES WHERE ONE COLUMN WILL BE AT A HIGHER LEVEL THAN THE OTHER, UP TO A MAXIMUM OF A 2" SLOPE DIFFERENCE, THE MAIN SIDE COLUMN IS REQUIRED TO BE ON THE HIGH SIDE.

ADJUSTABLE LIFTING PADS ARE USES TO COMPENSATE FOR ANY ARM LEVEL DISCREPANCIES CAUSED BY THE SLOPE.



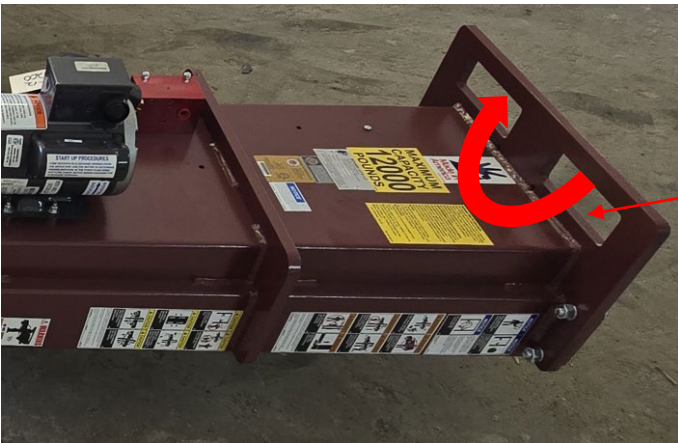
## STANDING THE COLUMNS:

### TOOLS NEEDED:

A FORKLIFT OR ANOTHER LIFTING DEVICE THAT CAN RAISE A MINIMUM OF 15 FEET AND A MINIMUM 3000LB LOAD RATING.

A LIFTING STRAP WITH A MINIMUM WEIGHT RATING OF 3000LBS.

USING THE LIFTING STRAP, SECURE THE STRAP THROUGH THE FORK POCKETS AT THE TOP OF THE COLUMN.



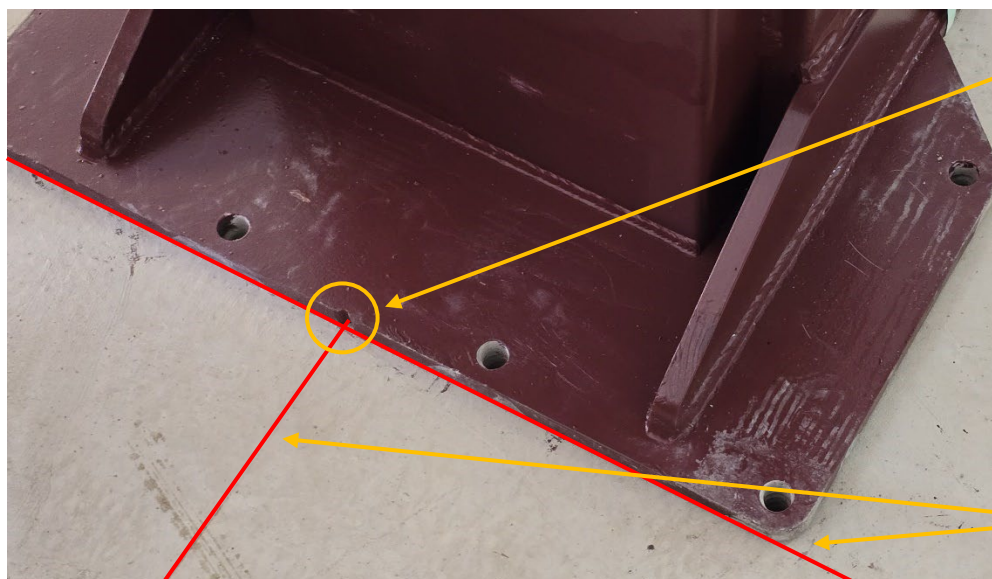
SECURE THE LIFTING STRAP THROUGH THE FORK POCKET AT THE TOP OF A COLUMN. ATTACH THE LIFTING STRAP TO YOUR LIFTING EQUIPMENT.

CAREFULLY RAISE THE COLUMN UNTIL THE BASE IS OFF OF THE GROUND.

MOVE THE COLUMN INTO POSITION AND SET DOWN ON THE LINES THAT WERE MADE DURING MEASURING AND MARKING.

THE MAINSIDE COLUMN IS REQUIRED TO BE ON THE HIGH SIDE OF A FLOOR SLOPE.

LINE UP THE BACK OF THE BASE OF THE COLUMN WITH YOUR MARKED LINES AND USE THE CENTERING CUT OUTS ON THE BASE TO LINE UP THE CENTER OF THE COLUMNS.



CENTERING NOTCH IN BASE

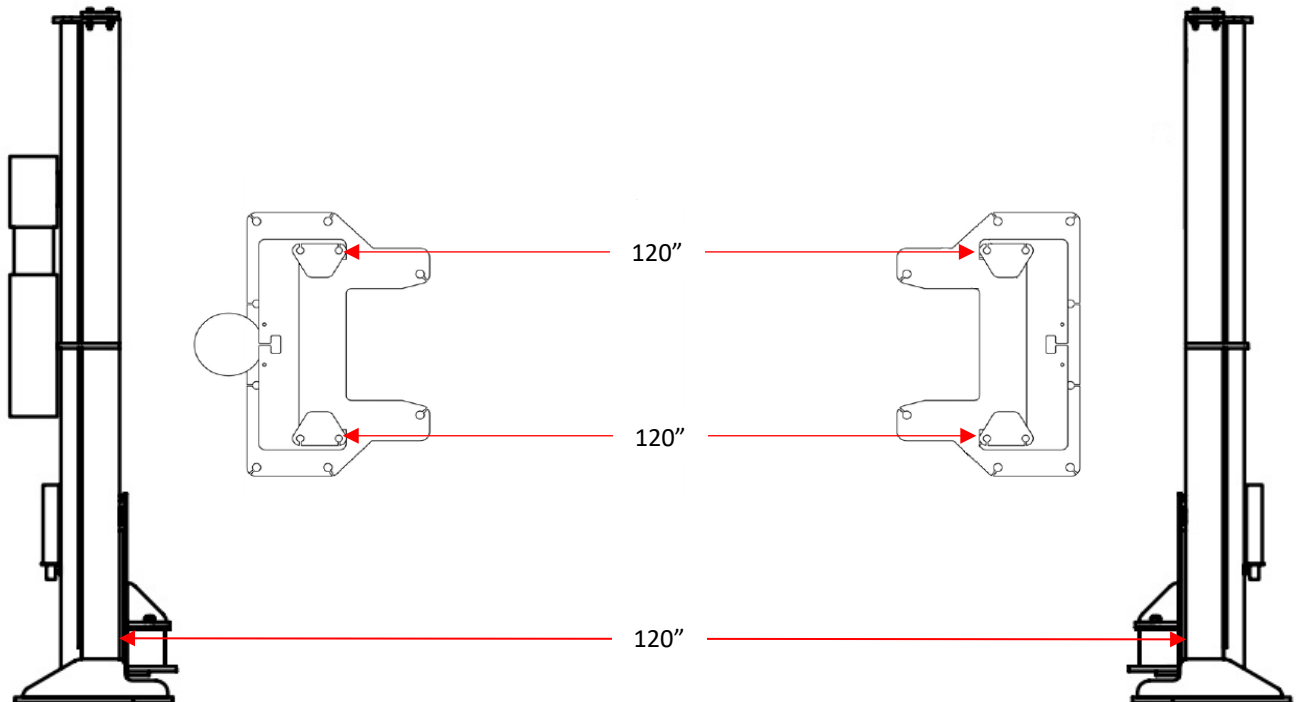
MARKED LINES ON FLOOR:  
**HIGHLIGHTED FOR CLARITY**

REPEAT THE PROCESS FOR THE SECOND COLUMN.

WITH BOTH COLUMNS IN PLACE, MEASURE TO SQUARE THE COLUMNS FACE TO FACE.

CUT AND REMOVE THE STRAPPING THAT IS HOLDING THE CARRIAGE.

CARRIAGE STRAPPING



TO SQUARE THE POSTS TO EACH OTHER MEASURE BETWEEN THE COLUMNS, LOWER ON THE COLUMN ON EITHER SIDE OF THE CARRIAGE AND SET THEM AT 120"

## DRILLING AND INSTALLING ANCHORS:

ONCE THE COLUMNS ARE SET AND SQUARED AT THE INSTALL LOCATION, THE ANCHORS WILL NEED TO BE DRILLED AND INSTALLED.

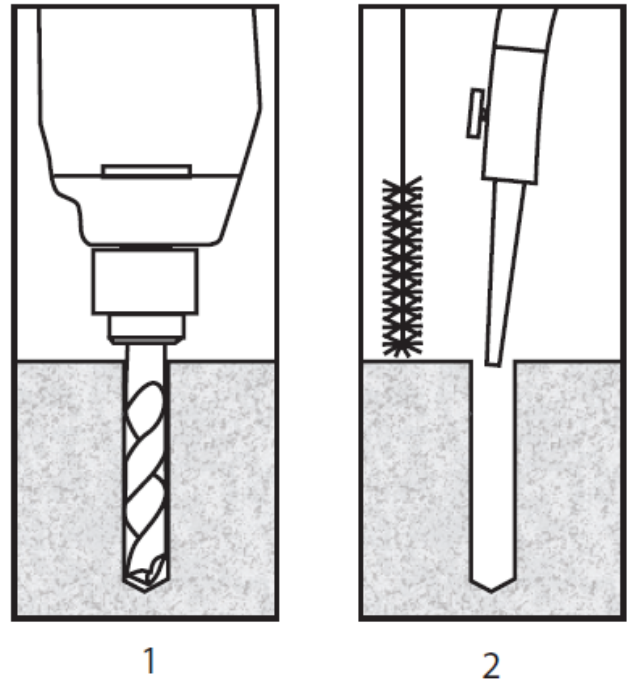
USING A SHARP CONCRETE DRILL BIT THAT IS CORRECTLY SIZED FOR THE ANCHORS, AND A HAMMER DRILL, DRILL INTO THE CONCRETE THROUGH THE BASEPLATE HOLES. (8 ON EACH COLUMN).

1

- DRILL THE HOLE PERPENDICULAR TO THE WORK SURFACE
- THE DRILL BIT DIAMETER WILL BE THE SAME AS THE ANCHOR BEING INSTALLED.
- TO ENSURE PROPER ANCHOR INSTALLATION DO NOT ALLOW THE DRILL TO WOBBLE.
- DRILL THE ANCHOR HOLE ONE ANCHOR DIAMETER DEEPER THAN THE INTENDED EMBEDMENT OF THE ANCHOR, BUT NOT CLOSER THAN TWO ANCHOR DIAMETERS TO THE BOTTOM SURFACE OF THE CONCRETE.

2

- CLEAN THE HOLE WITH COMPRESSED AIR AND A NYLON BRUSH.
- THE HOLE MUST BE CLEAN FOR PROPER ANCHOR PERFORMANCE



- DRILL ALL 8 HOLES IN EACH COLUMN BASE AND LOOSELY INSTALL ANCHORS
- VERIFY THAT THE COLUMNS ARE STILL 120" APART AS YOU ARE DRILLING AND INSTALLING ANCHORS.
- DO NOT FULLY INSTALL ANCHORS INTO THE ANCHOR HOLES AT THIS TIME. THIS ALLOWS FOR MOVEMENT OF THE COLUMNS WHILE INSTALLING LEVELING SHIMS.
- SHIM THE COLUMNS PER THE **LEVELING THE COLUMNS** SECTION OF THIS MANUAL
- ANY SHIMMING, WITH EITHER PLASTIC SHIMS OR BASE PLATES, OVER 1/2" IN TOTAL THICKNESS WILL REQUIRE LONGER ANCHOR BOLTS, (ORDERED SEPARATELY), TO MAINTAIN PROPER ANCHOR BOLT EMBEDMENT DEPTH IN THE CONCRETE.

## LEVELING THE COLUMNS:

USING A 4' LEVEL CHECK THE SIDE TO SIDE AND FORWARD TO BACK LEVEL OF THE COLUMNS AS SHOWN:

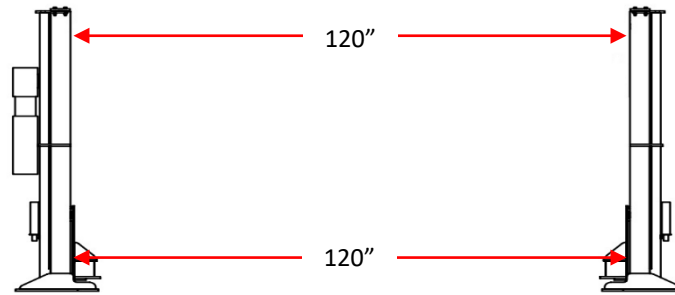


USING A 4 FOOT LEVEL CHECK THE LEVEL ON THE COLUMNS SIDE TO SIDE AND FRONT TO BACK.

IF THE COLUMNS ARE NOT LEVEL, LOOSEN THE ANCHORS AND USING THE SUPPLIED SHIMS, SHIM AROUND THE ANCHORS BETWEEN THE FLOOR AND THE BASE UNTIL THE COLUMNS ARE LEVEL, RE-TIGHTEN THE ANCHORS.



VERIFY THE COLUMNS ARE SQUARE BY MEASURING THE TOP AND BOTTOMS OF THE COLUMNS AS SHOWN.

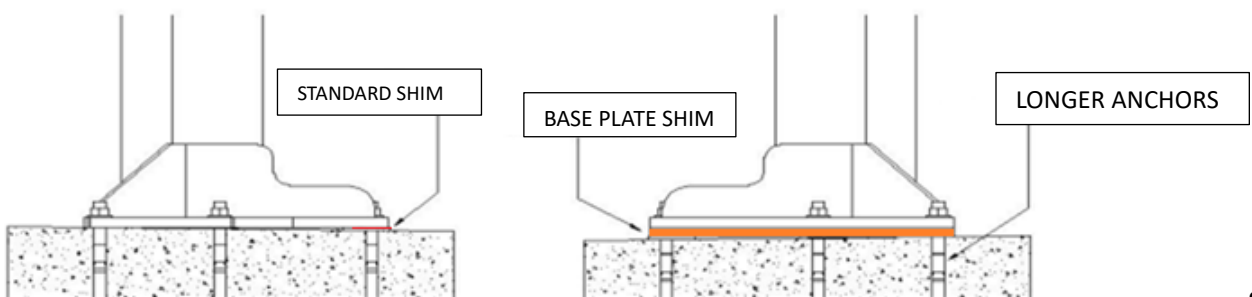


HIGH STRENGTH PLASTIC SHIMS ARE SUPPLIED WITH THE LIFT TO ACCOMMODATE SLIGHT SLOPES IN THE FLOOR FOR PROPER LEVELING OF THE COLUMNS. THESE ARE NOT INTENDED TO COMPENSATE FOR LARGER SLOPES.

POST SHIMMING SHOULD NOT EXCEED BASE PLATE THICKNESS, IF IT DOES, IT IS RECOMMENDED TO USE ADDITIONAL BASE(S) AS SHIMS. (ORDERED SEPARATELY).

ANY SHIMMING, WITH EITHER PLASTIC SHIMS OR BASE PLATES, OVER 1/2" IN TOTAL THICKNESS WILL REQUIRE LONGER ANCHOR BOLTS, (ORDERED SEPARATELY), TO MAINTAIN PROPER ANCHOR BOLT EMBEDMENT DEPTH IN THE CONCRETE.

IF THE SHIMMING OF THE COLUMN RAISES THE BASE PLATE GREATER THAN 1/2" THEN GROUTING IS NECESSARY UNDER THE COLUMN. USE A HIGH COMPRESSION 2 PART EPOXY BASED GROUT TO SPREAD THE COMPRESSIVE LOAD OF THE BASEPLATE TO THE FLOOR. FOLLOW THE GROUT MANUFACTURERS INSTRUCTIONS FOR APPLICATION.



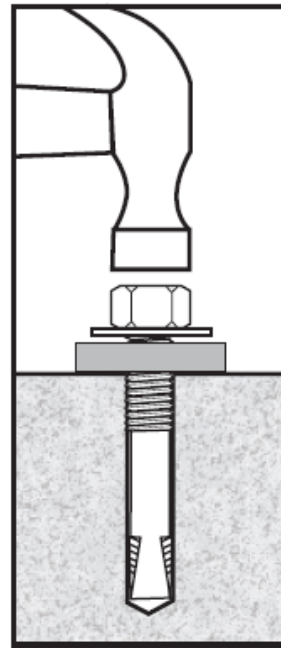
3

- POSITION THE NUT ON THE ANCHOR SO THAT IT IS INSTALLED FLUSH WITH THE TOP OF THE ANCHOR.
- INSERT THE ANCHOR INTO THE ANCHOR HOLE UNTIL IT RESTS SOLIDLY AGAINST THE BASE OF THE LIFT.

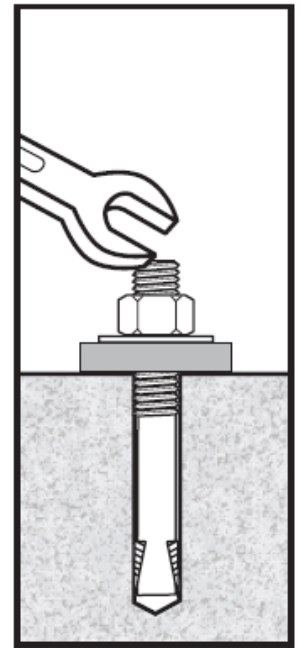
4

- TURN THE NUT BY HAND SO THAT IT IS TIGHT AGAINST THE BASE OF THE LIFT.
- TIGHTEN THE NUT TO THE ANCHOR MANUFACTURERS SPECIFICATIONS.
- BE SURE NOT TO OVERTIGHTEN THE ANCHOR.

**FOLLOW ALL ANCHOR MANUFACTURERS SPECIFICATIONS FOR INSTALLATION AND TORQUE SPECIFICATIONS**



3



4

REFER TO THE ANCHOR MANUFACTURERS WEBSITE FOR INFORMATION ON INSTALLATION AND TORQUE SPECIFICATIONS

<https://toggl.com/products/original-wej-it-wedge-anchor>

WHEN THE COLUMNS ARE STOOD, LEVEL, AND SECURED TO THE FLOOR, REMOVE ANY ADDITIONAL STRAPPING AND PACKING MATERIALS AND DISCARD.

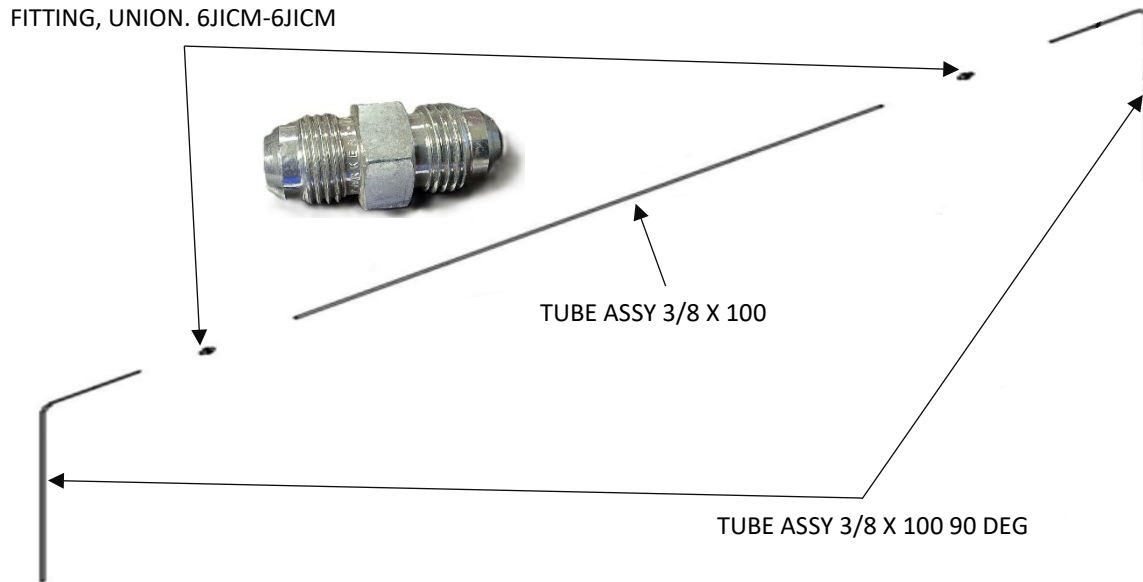


THE BACK OF THE OFFICE COLUMN WILL HAVE WOODEN PACKING MATERIAL BOLTED TO IT. REMOVE THE BOLTS AND DISCARD THE PACKING MATERIAL AND FASTENERS.

## ASSEMBLING THE HYDRAULIC LINES:

LOCATE THE OVERHEAD HYDRAULIC LINES AND JIC6 MALE TO MALE UNIONS (4 QTY).

PART NUMBER	DESCRIPTION	QTY
012-012-071	TUBE ASSY 3/8 X 100 90 DEG	4
000-001-001	TUBE ASSY 3/8 X 100	2
601-420-011	FITTING, UNION. 6JICM-6JICM	4



ASSEMBLE THE OVERHEAD LINES AS SHOWN ABOVE. (2 SETS)

ENSURE THAT THE 90 DEGREE TUBE ASSEMBLIES ARE KEPT IN LINE WITH EACH OTHER ON THE ENDS.

THE SIMPLEST WAY TO ASSEMBLE THESE IS FLAT ON THE GROUND TO ASSIST IN KEEPING THEM IN LINE.



## ATTACHING LINE SUPPORTS:

LOCATE THE LINE SUPPORTS AND MOUNTING HARDWARE.

PART NUMBER	DESCRIPTION	QTY
007-007-033-P	LINE SUPPORT PAINTED	2
600-710-004	FLATWASHER 1/4"	8
600-690-005	NUT, NYLON INSERT LOCK 1/4 - 20 NC	4
600-640-019	BOLT, 1/4 - 20 NC X 1 1/2" GR5	4

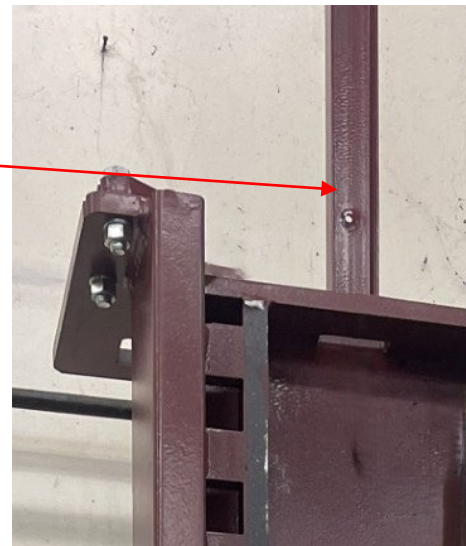
ON THE TOP OF EACH COLUMN THERE ARE MOUNTING HOLES FOR THE OVERHEAD LINE SUPPORTS. USING THE SUPPLIED 1/4" HARDWARE INSTALL THE LINE SUPPORTS TO THE TOP OF EACH COLUMN WITH THE BACK OF THE LINE SUPPORT U-CHANNEL FACING THE BACK OF THE COLUMN.

OVERHEAD LINE SUPPORT



LINE SUPPORT MOUNTING HOLES:  
LOCATED AT THE TOP OF EACH COLUMN

LINE SUPPORT INSTALLED



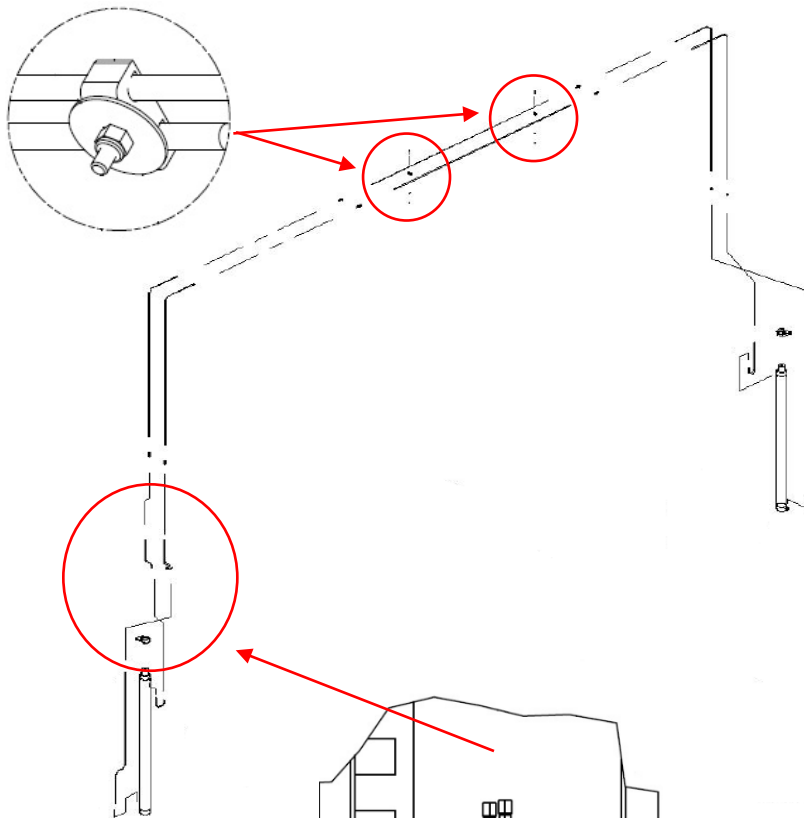
## INSTALLING OVERHEAD LINES:

LOCATE THE ASSEMBLED OVERHEAD LINES.

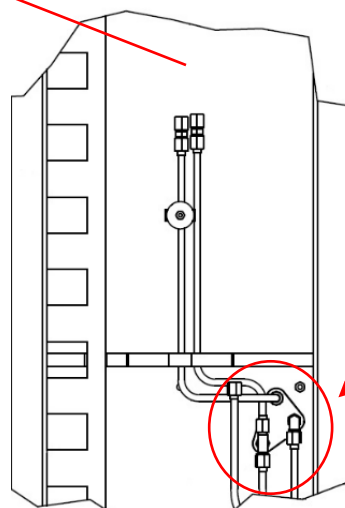
USING LADDERS OR MAN LIFT(S): BRING THE LINE SUPPORTS UP TO THE TOP OF THE COLUMNS AND ATTACH THEM IN THE APPROPRIATE ORIENTATION AS SHOWN IN THE DIAGRAM BELOW.

MANY OF THE HYDRAULIC LINES COME PRE-ATTACHED TO THE COLUMNS FROM THE FACTORY. THE OVERHEAD LINES NEED TO BE INSTALLED TO CONNECT THE MAIN SIDE COLUMN TO THE OFFSIDE COLUMN.

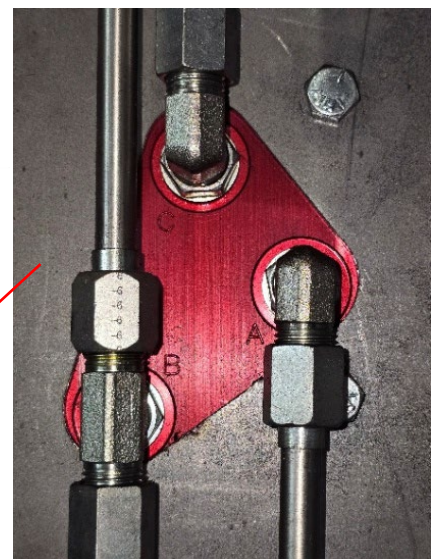
- REMOVE THE CAPS ON THE LINES THAT ARE ATTACHED TO THE COLUMNS.
- THE LINE THAT ATTACHES TO THE "C" PORT ON THE BACK OF THE DIVERTER VALVE ON THE MAINSIDE COLUMN WILL ATTACH TO THE LINE ON THE OFFSIDE COLUMN THAT ATTACHES TO THE TOP OF THE OFFSIDE CYLINDER.
- THE LINE THAT ATTACHES TO THE "B" PORT ON THE BACK OF THE DIVERTER VALVE ON THE MAINSIDE COLUMN (TEE CONNECTOR) WILL CONNECT TO THE LINE THAT GOES TO THE BOTTOM OF THE OFFSIDE CYLINDER ON THE OFFSIDE COLUMN.



INSIDE MAINSIDE COLUMN SHOWN WITH PIPING FOR DIVERTER VALVE.

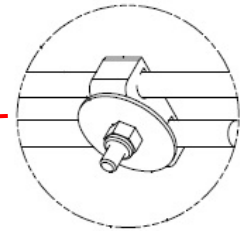
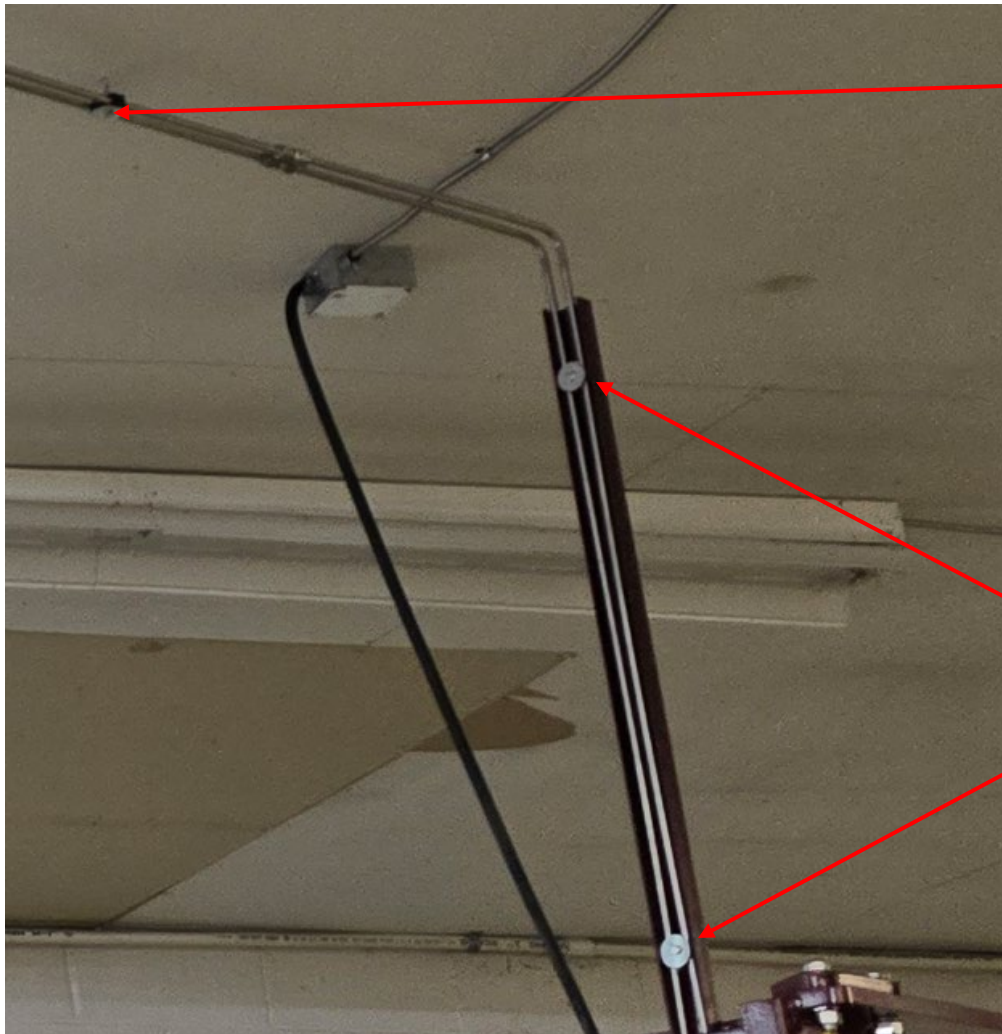


BACK OF THE DIVERTER VALVE

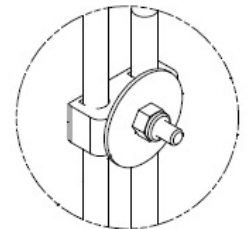


WHEN ALL OF THE LINES ARE CONNECTED AND TIGHT SECURE THE LINES TO THEMSELVES AS WELL AS THE COLUMNS USING THE DUAL TUBE CLAMPS AND MOUNTING HARDWARE.

PART NUMBER	DESCRIPTION	QTY
600-690-005	NUT, NYLON INSERT LOCK 1/4 - 20 NC	4
600-640-019	BOLT, 1/4 - 20 NC X 1 1/2" GR5	4
600-710-006	FLATWASHER 5/16" FENDER	6
601-710-001	DUAL TUBE CLAMP 3/8"	6



INSTALL CLAMPS APPROXIMATELY 1 FOOT PAST THE UNIONS ON THE OVERHEAD LINES.



INSTALL CLAMPS ON THE LINE SUPPORTS ON BOTH COLUMNS 2 CLAMPS PER LINE SUPPORT.

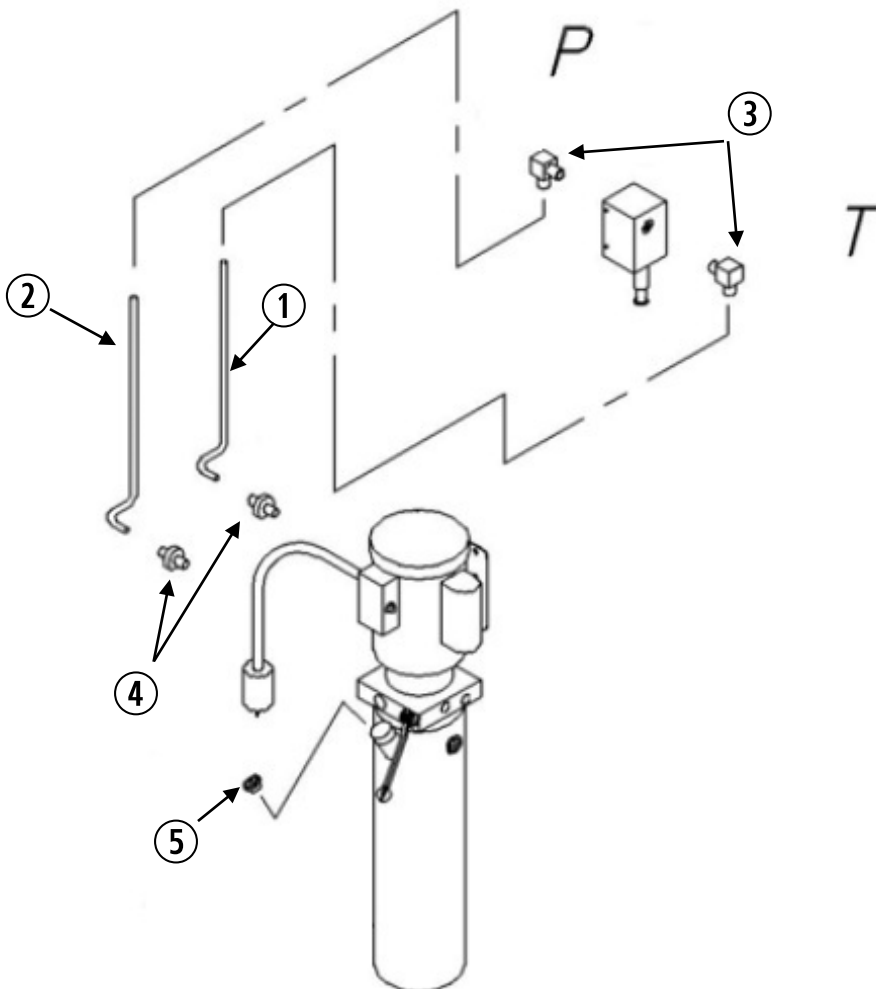
## MOTOR HYDRAULICS:

LOCATE THE HYDRAULIC LINES AND THE CONNECTIONS FOR THE MOTOR TO THE DIVERTER VALVE AS WELL AS THE BREATHER CAP.

REMOVE THE SHIPPING PLUGS FROM THE DIVERTER VALVE AND THE PUMPS "P" AND "T" PORTS.

- INSTALL A 90 DEGREE FITTING IN THE "P" PORT AND THE "T" PORT ON THE DIVERTER VALVE.
- INSTALL A STRAIGHT FITTING ON THE "P" PORT AND THE "T" PORT ON THE PUMP.
- CONNECT THE "P" PORTS ON THE PUMP AND THE DIVERTER VALVE WITH PART# 009-010-029 TUBE ASSEMBLY.
- CONNECT THE "T" PORTS ON THE PUMP AND THE DIVERTER VALVE WITH PART# 009-010-028 TUBE ASSEMBLY.
- REMOVE THE SHIPPING PLUG FROM THE FILL PORT ON THE HYDRAULIC TANK AND INSTALL BREATHER CAP,

	PART NUMBER	DESCRIPTION	QTY
①	ZZ1686-A-215	TUBE ASSY 3/8 X 22.25" ML-220XL	1
②	ZZ1686-A-216	TUBE ASSY 3/8 X 26.5" ML-220XL	1
③	601-420-017	FITTING 90 DEG 6ORBM-6JICM	2
④	601-420-019	FITTING STR 6ORBM-6JICBM	2
⑤	601-310-171	BREATHER CAP	1



## FIRST TIME OPERATION:

- VERIFY THAT THE PROPER ELECTRICAL VOLTAGE IS SUPPLIED TO THE LIFT AND PLUG IN THE LIFT.
- VERIFY THAT THERE IS AN ADEQUATE LEVEL OF HYDRAULIC FLUID IN THE RESERVOIR TO RUN THE LIFT INITIALLY.
  - THE LEVEL SHOULD BE AT THE BASE OF THE FILL PORT.
  - MORE FLUID WILL BE REQUIRED TO FULLY FILL THE LIFT DURING FIRST USE OF THE LIFT. (DEXRON III ATF) UP TO 2 GALLONS
- BRIEFLY PRESS THE RAISE BUTTON TO VERIFY THAT THE MOTOR IS OPERATIONAL, LISTEN FOR ANY ABNORMAL SOUNDS. ONCE VERIFIED THAT THE MOTOR IS OPERATIONAL, CONTINUE TO RAISE THE LIFT.
- KEEP THE RAISE BUTTON PRESSED UNTIL THE LIFT STARTS TO RAISE.
  - THE MAIN SIDE WILL START TO RAISE FIRST.
  - WHEN THE OFFSIDE STARTS TO RAISE, PULL THE DIVERTER VALVE AND HOLD TO RAISE THE OFFSIDE EQUAL TO THE MAINSIDE.



PULL DOWN AND HOLD THE DIVERTER VALVE TO RAISE THE OFFSIDE INDEPENDENT OF THE MAINSIDE.

THE DIVERTER VALVE IS LOCATED ABOVE AND TO THE LEFT OF THE POWER UNIT.

- MONITOR THE FLUID LEVEL TO ENSURE THAT THERE IS ENOUGH FLUID TO CONTINUE TO RAISE.
- THE LIFT MAY STOP RAISING AND YOU WILL HEAR SUCTION IN THE HYDRAULIC TANK. ADD ADDITIONAL FLUID ***A LITTLE AT A TIME*** TO ALLOW THE LIFT TO CONTINUE TO RAISE UNTIL THE LIFT IS AT FULL RAISE POSITION.
- **DO NOT OVERFILL THE TANK ONCE THE LIFT IS AT MAX HEIGHT STOP ADDING FLUID.**
- WHEN BOTH CARRIAGES ARE AT MAX HEIGHT PERFORM THE BLEEDING PROCEDURE TO FORCE ANY AIR OUT OF THE SYSTEM, THE LIFTING RODS NEED TO MAKE A FULL STROKE TO PROPERLY BLEED THE SYSTEM OF AIR. CONFIRM THAT THE CARRIAGES ARE NOT HITTING THE CARRIAGE STOPS WHEN IN THE FULLY RAISED POSITION.

### BLEEDING PROCEDURE

TO BE PERFORMED WEEKLY AND WHEN LIFT IS EMPTY.

1. RAISE THE LIFT TO FULL HEIGHT.
2. CONTINUE TO RUN THE LIFT WHEN IT IS AT MAX HEIGHT FOR 15-20 SECONDS.
3. STOP RUNNING THE LIFT
4. LET THE LIFT SIT AT MAX HEIGHT FOR 1 MINUTE
5. REPEAT STEPS 2 THROUGH 4 AT LEAST 3 TIMES
6. LOWER THE LIFT TO THE GROUND

- CHECK FOR LEAKS AT ALL HYDRAULIC CONNECTIONS, REPAIR LEAKS IF NECESSARY.
- PULL THE LOCK RELEASES ON BOTH CARRIAGES AND LOWER THE LIFT TO THE GROUND.

## SWING ARM RESTRAINT ASSEMBLY:

THE SWING ARM RESTRAINTS COME FROM THE FACTORY IN A SHIPPING POSITION TO PREVENT DAMAGE DURING TRANSPORT. THE RESTRAINTS WILL NEED TO BE PUT INTO THE SERVICE POSITION.

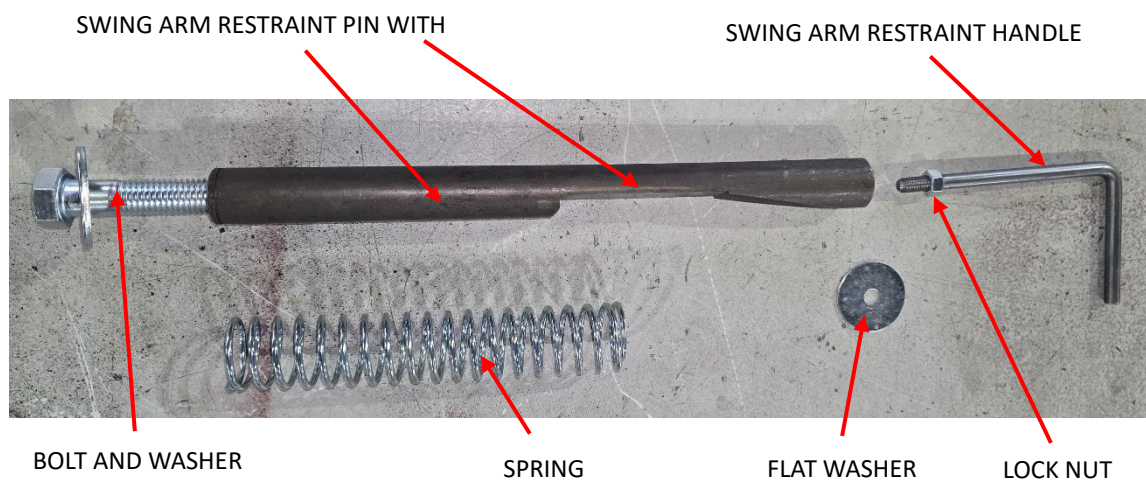
- REMOVE THE BOLT AND WASHER FROM THE BOTTOM OF THE SWING ARM RESTRAINT ASSEMBLY.
- REMOVE THE ASSEMBLY FROM THE CARRIAGE.
- TAKE THE SPRING OFF OF THE SWING ARM RESTRAINT PIN.
- REINSTALL PIN INTO CARRIAGE.
- INSTALL SPRING AT THE BOTTOM OF THE CARRIAGE OVER THE SWING ARM RESTRAINT PIN.
- INSTALL BOLT AND WASHER INTO THE BOTTOM OF THE PIN AND TIGHTEN.
- ANGLE THE BEVELED EDGE ON THE SWING ARM RESTRAINT PIN SO IT FACES THE SWING ARM PIN HOLE.
- ADJUST THE SWING ARM RESTRAINT HANDLE SO THAT IT IS FACING TO THE SIDES OF THE CARRIAGE AND TIGHTEN LOCK NUT, TO HOLD IT IN PLACE.



SWING ARM RESTRAINT:  
SHIPPING POSITION



SWING ARM RESTRAINT:  
SERVICE POSITION



BOLT AND WASHER

SPRING

FLAT WASHER

LOCK NUT

## INSTALLING SWING ARMS:

LOCATE THE SWING ARMS, THE SWING ARM PINS, NUTS, WASHERS, AND NUT CAPS.

PART NUMBER	DESCRIPTION	QTY
600-680-007	NUT, PLAIN 1 1/2" - 12NF GR 8	8
ZZ1686-P-116	CARRIAGE PIN	4
600-720-003	LOCKWASHER 1-1/2"	8
601-460-010	CAP-CAPLUG BLACK	4

# CAUTION

**SWING ARMS ARE HEAVY: USE 2 PEOPLE OR A LIFTING DEVICE TO ASSIST WITH PLACEMENT.**

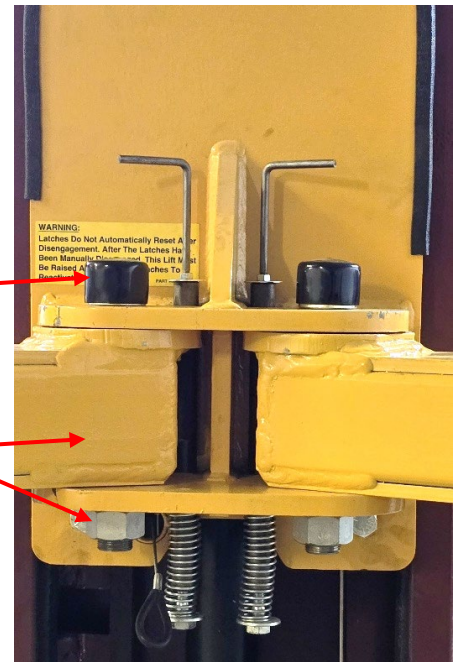
CARRIAGE PIN



1. REMOVE 1 NUT AND WASHER FROM THE SWING ARM PIN.
2. SCREW THE OTHER NUT DOWN ONTO THE PIN SO THAT THERE IS APPROXIMATELY 1/2" OF THREADS SHOWING.
3. INSERT THE SWING ARM INTO THE CARRIAGE.
4. PULL UP ON THE SWING RESTRAINT LOCK SO IT IS IN THE OPEN POSITION AND LINE UP THE HOLES OF THE CARRIAGE AND THE SWING ARM.
5. INSERT THE CARRIAGE PIN THROUGH THE HOLE SO IT EXITS OUT OF THE BOTTOM OF THE CARRIAGE. DO NOT FORCE THE PIN THE THREADS MAY BE DAMAGED.
6. WHEN THE PIN IS FULLY SEATED INSTALL THE LOCK WASHER AND NUT ON THE BOTTOM OF THE PIN.
7. TIGHTEN DOWN THE NUTS ON BOTH THE TOP AND BOTTOM UNTIL THE LOCK WASHERS ARE FLATTENED TO THE LOCK POSITION.
8. INSTALL THE BLACK PLASTIC CAP ON THE TOP NUT.
9. REPEAT THIS PROCESS FOR THE 4 SWING ARMS.

BLACK CAP

SWING ARM AND PINS INSTALLED



## FINAL TESTING:

BEFORE PUTTING THE LIFT IN SERVICE PERFORM THE FOLLOWING TESTS TO MAKE SURE THAT THE LIFT IS OPERATING CORRECTLY.

### RAISE THE LIFT EMPTY A FEW TIMES AND OBSERVE THE FOLLOWING:

- LIFT ARMS ARE SYNCRONIZED AND RAISING SMOOTHLY.
- NO LEAKS ARE PRESENT AT ANY HYDRAULIC FITTINGS
- LOCKS ARE ENGAGING ON BOTH COLUMNS AS LIFT IS RAISING
  - (AN AUDIBLE CLUNK IS HEARD FROM BOTH COLUMNS WHILE RAISING)
- LOCKS DISENGAGE AND STAY DISENGAGED WHEN THE LOCK RELEASE CABLE IS PULLED.
- LOCKS RE-ENGAGE WHEN LIFT IS RAISED
- LIFT DOES NOT DRIFT DOWN WHEN LIFT STOPS AND LOCKS ARE NOT ENGAGED
- SWING ARMS ROTATE SMOOTHLY WHEN LIFT IS FULLY LOWERED.
- SWING ARMS ARE RESTRAINED AND STAY IN PLACE WHEN THE LIFT IS RAISED.

WHEN THESE TESTS ARE DONE, LOCATE A VEHICLE THAT IS AT LEAST 50% OF THE LIFTS RATED CAPACITY AND PERFORM THESE TESTS.

USING THE LIFT OPERATION PROCEDURES IN THIS MANUAL AND THE **ALI "VEHICLE LIFTING POINTS" AND "LIFTING IT RIGHT"** MANUALS.

### RAISE THE VEHICLE APPROXIMATELY A FOOT OFF OF THE GROUND:

- LIFT ARMS ARE SYNCRONIZED AND RAISING SMOOTHLY.
- LOCKS ARE ENGAGING ON BOTH COLUMNS AS LIFT IS RAISING
  - (AN AUDIBLE CLUNK IS HEARD FROM BOTH COLUMNS WHILE RAISING)
- LIFT DOES NOT DRIFT DOWN WHEN LIFT STOPS AND LOCKS ARE NOT ENGAGED
- CHECK THE ANCHOR BOLTS AND THE BASEPLATE. CONFIRM THAT THE ANCHOR BOLTS ARE TIGHT AND THE BASE PLATE HAS NOT RAISED IN THE REAR.

### RAISE THE LIFT TO FULL STROKE:

- LIFT ARMS ARE SYNCRONIZED AND RAISING SMOOTHLY.
- LOCKS ARE ENGAGING ON BOTH COLUMNS AS LIFT IS RAISING
  - (AN AUDIBLE CLUNK IS HEARD FROM BOTH COLUMNS WHILE RAISING)
- LIFT DOES NOT DRIFT DOWN WHEN LIFT STOPS AND LOCKS ARE NOT ENGAGED
- NO EXCESSIVE DEFLECTION OF POST OR SWING ARMS.
- CHECK THE ANCHOR BOLTS AND THE BASEPLATE. CONFIRM THAT THE ANCHOR BOLTS ARE TIGHT AND THE BASE PLATE HAS NOT RAISED IN THE REAR.

### LOWER THE LIFT ONTO THE LOCKS:

- LIFT LOWERS SMOOTHLY ONTO THE LOCKS AND LOCKS FULLY ENGAGE.

### LOWER LIFT TO THE GROUND:

- RAISE THE LIFT OFF OF THE LOCKS AND PULL THE LOCK RELEASE CABLES.
- LIFT LOWERS SMOOTHLY LIFT ARMS ARE SYNCRONIZED
- LOCKS DO NOT RE-ENGAGE WHILE LOWERING
- CHECK THE ANCHOR BOLTS AND THE BASEPLATE. CONFIRM THAT THE ANCHOR BOLTS ARE TIGHT AND THE BASE PLATE HAS NOT RAISED IN THE REAR.
- SWING ARMS ROTATE SMOOTHLY WHEN LIFT IS FULLY LOWERED.

**WITH ALL OF THESE TESTS COMPLETE THE LIFT CHECKOUT IS COMPLETE AND CAN BE PUT INTO SERVICE.**

## LIFT OPERATION:

REFER TO: AUTOMOTIVE LIFT-SAFETY REQUIREMENTS FOR OPERATION, INSPECTION, AND MAINTENANCE (ANSI/ALI ALOIM)

BEFORE OPERATING THE LIFT, PERFORM A PRE-OPERATION CHECKLIST:

### PRE-OPERATION CHECKLIST

- **TRAINED OPERATOR:** THE OPERATOR MUST BE FULLY TRAINED AND QUALIFIED TO SAFELY AND EFFECTIVELY OPERATE THE LIFT.
- **LOOK FOR OBSTRUCTIONS:** THE WORK AREA SHOULD BE FREE OF ALL OBSTRUCTIONS AND BE FREE OF OIL AND DEBRIS
- **VISUAL INSPECTION:** THOROUGHLY INSPECT THE LIFT, NOTE ANY PROBLEM AREAS. INSPECT THE FLOOR AND THE MOUNTING ANCHORS. REPORT ANY DISCREPANCIES.
- **NO LOAD PERFORMANCE CHECK: RUN THE LIFT EMPTY TO VERIFY**
  - ALL MECHANICAL SAFETIES OPERATE PROPERLY AND CONSISTANTLY
  - NO EXTERNAL FLUID LEAKS
  - LIFT DOES NOT DRIFT WHEN OFF OF LOCKS
  - LIFT RAISES AND LOWERS SMOOTHLY AND THE ARMS ARE SYNCHRONIZED
  - CONTROLS FUNCTION PROPERLY
- **PREVIOUS DAYS OPERATION REPORT:** CHECK THE PREVIOUS DAYS REPORT AND VERIFY THAT ANY PROBLEMS THAT MAY HAVE BEEN REPORTED HAVE BEEN RECTIFIED.

## 2 POST LIMITATIONS AND ADAPTER USAGE:

### 2-POST LIMITATIONS:

1. PROPER FRAME ENGAGEMENT WITH PADS. ALL 2-POST FRAME ENGAGING LIFTS ARE DESIGNED TO LIFT STANDARD VEHICLES WITHIN THEIR RATED CAPACITY BY THE VEHICLE FRAME. IF SUITABLE FRAME CONTACT LIFT POINTS CAN NOT BE REACHED OR ACCOMMODATED BY THE LIFTING PADS, THE VEHICLE MUST NOT BE RAISED WITH THE LIFT. REFER TO VEHICLE MANUFACTURER LIFTING POINT SPECIFICATIONS (AND VEHICLE LIFT POINT LABEL PER SAE J2184, VEHICLE LIFT POINTS FOR SERVICE GARAGE LIFTING).
2. PROPER CENTER OF GRAVITY PLACEMENT OF VEHICLE ON LIFT ENSURE THAT THE CENTER OF GRAVITY OF THE VEHICLE LIES CENTERED BETWEEN THE LIFTING ARMS. THIS SHOULD PLACE THE CENTER OF GRAVITY OF THE VEHICLE IN LINE WITH THE CENTER OF THE POSTS AS WELL.
3. PROPER LOADING OF ARMS. INDIVIDUAL ARM CAPACITIES ARE  $\frac{1}{4}$  OF THE RATED LIFT CAPACITY AND MUST NOT BE EXCEEDED. FOR INSTANCE, A 10,000 LB RATED 2-POST LIFT HAS ARMS THAT ARE RATED FOR 2,500 LBS EACH. IT IS POSSIBLE THAT A 10,000 LB VEHICLE CAN OVERLOAD THE ARMS ON A 10,000 LB LIFT IF THE FRONT AND REAR LOADING ARE NOT EQUAL.

WITH RESPECT TO HEAVY ENDED VEHICLES SUCH AS FORK TRUCKS, DELIVERY VANS, PICKUP TRUCKS, ETC, ATTENTION MUST BE MADE TO ENSURE THAT THE PER ARM CAPACITY OF THE LIFTING ARMS IS NOT EXCEEDED AND THAT THE CENTER OF GRAVITY OF THE VEHICLE LIES CENTERED BETWEEN THE LIFTING ARMS.

SPECIAL SAFETY PRECAUTIONS MUST BE OBSERVED IN APPLICATIONS INVOLVING VERY LONG AND VERY SHORT WHEELBASE VEHICLES. 2-POST LIFTS ARE NOT DESIGNED TO RAISE STRETCHED LIMOS AND OTHER TYPES OF LONG WHEELBASE VEHICLES. AS A RULE OF THUMB, THE VEHICLE LENGTH ON A 2-POST MUST BE LIMITED TO 4 TIMES THE LENGTH OF THE ARM SPREAD TO RAISE IT. THE CENTER OF GRAVITY ON THIS VEHICLE MUST LIE BETWEEN THE LIFTING PADS TO ACCOMPLISH THIS. NOTE THAT SOME VEHICLES, PER VEHICLE MANUFACTURER GUIDELINES, ARE NOT TO BE RAISED BY THE FRAME. REFER TO VEHICLE MANUFACTURER GUIDELINES FOR PROPER LIFTING TECHNIQUES.

THIS LIFT IS NOT INTENDED, NOR DESIGNED, TO LIFT VEHICLE FRONT OR BACK ENDS USING ONLY TWO ARMS.

CARE MUST BE OBSERVED WHEN REMOVING ANY HEAVY COMPONENTS FROM A VEHICLE AND THEREBY DRASTICALLY SHIFTING THE VEHICLE CENTER OF GRAVITY (I.E. ENGINE REMOVAL, TRANSMISSION REMOVAL, ETC.). THE USE OF JACK STANDS AT THE FRONT AND REAR ENDS OF THE VEHICLE IS HIGHLY RECOMMENDED WHEN PERFORMING THIS TYPE OF WORK.

### ADAPTER USAGE AND LIMITATIONS:

THE USE OF HEIGHT ADAPTERS IS COMMON FOR MOST LIFTING SITUATIONS TO ACCOMMODATE HIGH FRAMES AND LOW OVERHANGING BODIES OF VEHICLES.

HEIGHT ADAPTERS ARE ONLY ALLOWED TO BE STACKED 2 HIGH.

ANY SITUATION PRODUCING AN OFF-VERTICAL SLANTING OF THE HEIGHT ADAPTERS, SUCH AS DEFLECTION OF THE ARM DUE TO A HEAVY LOAD, DEFLECTION OF THE ARM DUE TO SLOPE, ECCENTRIC CORNER LOADING OF THE LIFT PAD, ETC. MUST BE AVOIDED.

## LIFT PREPARATION AND VEHICLE POSITIONING:

POSITION THE SWING ARMS TO THE OUTSIDE OF THE UNIT.  
POSITION THE VEHICLE CENTERED BETWEEN THE POSTS.

ALIGN THE VEHICLE'S CENTER OF GRAVITY WITH THE CENTERLINE OF THE POSTS. THIS CAN BE VERIFIED BY VIEWING THE CAM FOLLOWER BEARINGS ON THE CARRIAGE. THESE BEARINGS ARE LOCATED AT EACH CORNER OF THE CARRIAGE. CENTERING OF THE VEHICLE IS ACHIEVED WHEN ALL 4 SIDE BEARINGS ARE FREE TO SPIN.

PLACE THE LIFTING PADS PER THE VEHICLE MANUFACTURER'S RECOMMENDED LIFT POINTS.

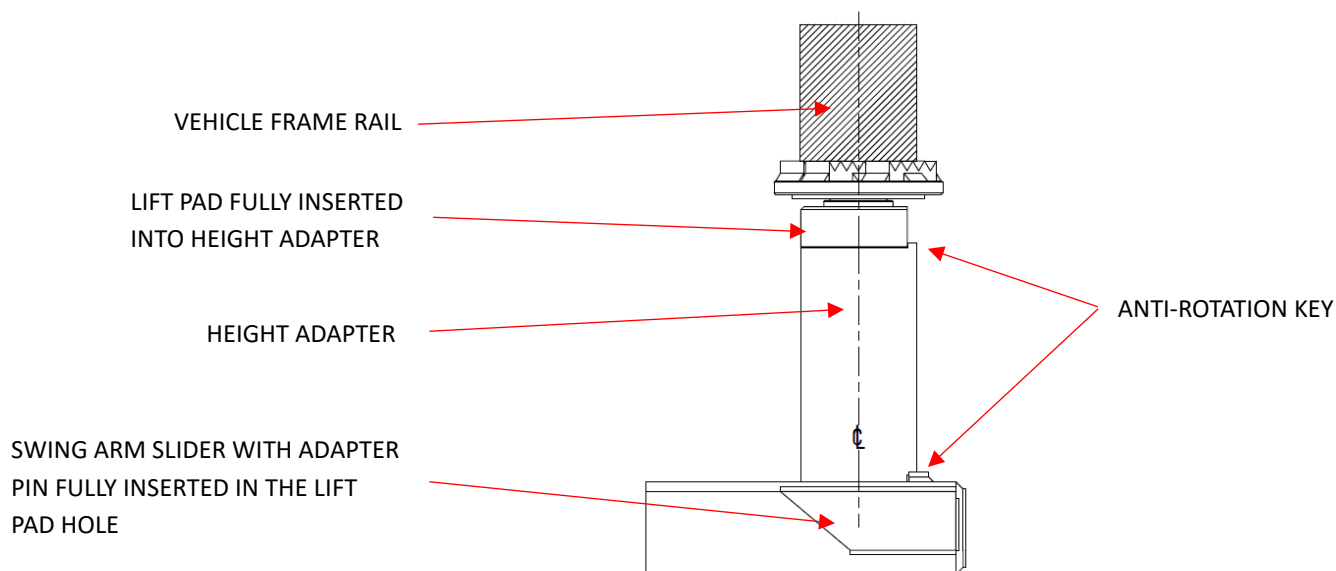
REFER TO THE ALI "LIFTING IT RIGHT" AND "VEHICLE LIFT POINTS" GUIDE FOR LIFTING POINTS AND PROPER LIFTING TECHNIQUES

FRAME RAILS ARE TO BE CENTERED ON THE LIFTING PADS AND REST FLAT ON LIFTING PAD SURFACES.

THE LIFT PAD IS TO BE FULLY INSERTED INTO THE SWING ARM SLIDER HOLE OR HEIGHT ADAPTER.

THE PAD AND / OR ADAPTER SET NEEDS TO BE ALIGNED WITH THE ANTI-ROTATION KEY, ON THE SWING ARM AS WELL AS THE ADAPTER.

NO MORE THAN (2) TWO HEIGHT ADAPTERS ARE TO BE USED AT ANY TIME FOR ANY SINGLE LIFTING PAD



## CAUTION

IF PROPER AND SAFE LIFTING POINTS ON THE FRAME OF THE VEHICLE CANNOT BE REACHED BY THE LIFTING PADS:

**DO NOT RAISE THE VEHICLE.**

## LIFT CONTROLS:

### RAISE:

- PRESS THE UP BUTTON ON THE POWER UNIT.
- RAISE THE VEHICLE TO THE DESIRED WORKING HEIGHT.
- WHEN AT THE DESIRED HEIGHT LOWER THE VEHICLE ONTO THE MECHANICAL LOCKS.

### WHEN RAISING A VEHICLE ALWAYS:

- FOLLOW THE LIFT VEHICLE POSITIONING GUIDELINES
- VERIFY THAT THE VEHICLE WILL NOT HIT ANY OVERHEAD OBJECTS.
- THE VEHICLE’S CENTER OF GRAVITY IS CENTERED ON THE LIFT
- THE VEHICLE IS STABLE ON THE LIFT

REFER TO THE ALI “LIFTING IT RIGHT” GUIDE FOR PROPER LIFTING GUIDELINES.

### LOWER:

- VERIFY THAT ALL PERSONNEL, TOOLS, AND EQUIPMENT ARE OUT FROM UNDER THE LIFT BEFORE LOWERING.
- PRESS THE RAISE BUTTON SO THE LIFT RAISES APPROXIMATELY 2”.
- PULL THE LOCK RELEASE CABLES ON BOTH CARRIAGES.
- ENGAGE THE LOWERING LEVER, LOWER THE UNIT TO THE DESIRED WORKING HEIGHT.
- WHEN AT DESIRED HEIGHT RAISE THE LIFT TO RE-ENGAGE THE MECHANICAL LOCKS.
- LOWER THE UNIT ONTO THE LOCKS.

**IF WORK IS COMPLETE: CONTINUE TO LOWER THE LIFT UNTIL BOTH CARRIAGES ARE FULLY LOWERED.**

## ⚠ CAUTION

IF FOR ANY REASON, THE LIFT BECOMES INOPERATIVE IN THE RAISED POSITION WITH A VEHICLE ON IT, CONTACT YOUR LOCAL MOHAWK REPRESENTATIVE OR THE MOHAWK FACTORY.

**DIVERTER VALVE: THE PURPOSE OF THE DIVERTER VALVE IS TO ENABLE THE OPERATOR TO RAISE OR LOWER THE OFFSIDE CARRIAGE INDEPENDENTLY OF THE MAINSIDE CARRIAGE.**



***THE DIVERTER VALVE IS LOCATED ABOVE AND TO THE LEFT OF THE POWER UNIT ON THE MAIN SIDE COLUMN.***

### DIVERTER VALVE OPERATION:

PULL DOWN AND HOLD THE DIVERTER VALVE PULL KNOB.

**TO RAISE:** WITH THE VALVE PULLED, PRESS THE UP BUTTON ON THE POWER UNIT. WHEN THE DESIRED HEIGHT HAS BEEN ACHIEVED, RELEASE THE DIVERTER VALVE AND THE UP BUTTON.

**TO LOWER:** WITH THE VALVE PULLED, ACTIVATE THE LOWERING LEVER. WHEN THE DESIRED HEIGHT HAS BEEN ACHIEVED, RELEASE THE DIVERTER VALVE AND THE LOWERING LEVER.

**AS WITH ALL FUNCTIONS OF THE LIFT, ALWAYS LOWER THE LIFT ONTO THE MECHANICAL LOCKS BEFORE WORKING UNDER OR AROUND THE VEHICLE.**

## MAINTAINANCE:

### DAILY:

- **PERFORM THE PRE-OPERATION CHECK LIST.**

REPORT ANY AND ALL EQUIPMENT MALFUNCTIONS IMMEDIATELY.

- **CLEAN ALL MOVING PARTS.**

(IT IS NOT RECOMMENDED TO GREASE THE INSIDE OF THE CHANNEL ON THE POST, SWING ARMS OR SWING ARM RESTRAINTS.)  
IF OXIDIZATION IS OCCURRING USE A LIGHT LUBRICANT. (WD - 40 OR EQUIVALENT)

- **KEEP THE WORK AREA AROUND THIS EQUIPMENT CLEAN AND FREE OF DEBRIS.**

CLEAN UP ANY DIRT, SAND, WATER, GREASE, OIL, ETC.

PICK UP TOOLS AND REMOVE ANY OBSTACLES THAT COULD INTERFERE WITH THE OPERATION OF THE LIFT.

### WEEKLY:

- **WIPE CLEAN:**

THE CYLINDERS' WIPER SEALS AND THE BASE OF EACH POST TO REMOVE ANY WEEPING OIL AND DUST.

- **VERIFY FLUID LEVEL:**

WITH THE UNIT FULLY LOWERED, THE FLUID LEVEL WILL BE 1/2 INCH BELOW THE BREATHER CAP PORT.  
USE DEXRON III AS REPLACEMENT FLUID.

- **LUBRICATE THE ARM RESTRAINT ASSEMBLIES:**

AS NEEDED TO INSURE FREE, AND SMOOTH OPERATION. USE A LIGHT LUBRICANT. (WD - 40 OR EQUIVALENT)

- **PERFORM BLEEDING PROCEDURE**

### BLEEDING PROCEDURE:

THE LIFTING RODS NEED TO MAKE A FULL STROKE TO PROPERLY BLEED THE SYSTEM OF AIR. CONFIRM THAT THE CARRIAGES ARE NOT HITTING THE CARRIAGE STOPS WHEN LIFT IS FULLY RAISED.

#### BLEEDING PROCEDURE

TO BE PERFORMED WEEKLY AND WHEN LIFT IS EMPTY.

1. RAISE THE LIFT TO FULL HEIGHT.
2. CONTINUE TO RUN THE LIFT WHEN IT IS AT MAX HEIGHT 15-20 SECONDS.
3. STOP RUNNING THE LIFT
4. LET THE LIFT SIT AT MAX HEIGHT FOR 1 MINUTE
5. REPEAT STEPS 2 THROUGH 4 AT LEAST 3 TIMES
6. LOWER THE LIFT TO THE GROUND.

### MONTHLY:

- **INSPECT ALL HYDRAULIC COMPONENTS:**

INSPECT FOR LEAKS, DEFORMATION, WEAR OR CORROSION.

TIGHTEN ALL FASTENERS AND HYDRAULIC FITTINGS AS REQUIRED.

- **INSPECT ANCHOR CONDITIONS:**

INSPECT FOR ANY POSSIBLE CORROSION AND

- **INSPECT THE FLOOR AROUND THE BASE OF THE COLUMNS FOR ANY SIGNS OF FATIGUE OR FRACTURES.**

## SEMI- ANNUAL:

- **QUALIFY / RE-QUALIFY ALL PERSONNEL IN THE SAFE OPERATION OF THIS UNIT.**

- **LUBRICATE LOCK BODY MAIN PIVOT PINS:**

REMOVE WITH SNAP RING PLIERS WHEN FULLY LOWERED AND CLEAN LOCK PIVOT PIN AND LOCK BODY HOLE. SPRAY PIN WITH A LIGHT LUBRICANT (WD-40 OR EQUIVALENT), THEN RE-ASSEMBLE, ENSURING SMOOTH MOTION.

- **CLEAN AND LUBRICATE CHANNEL SECTIONS WHERE THE CARRIAGE BEARINGS RIDE:**

LUBRICATE USING A LIGHT LUBRICANT (WD-40).

- **INSPECT AND CLEAN CARRIAGE BEARINGS:**

CHECK FOR WEAR AND SMOOTH MOTION. WIPE OFF EXCESS DIRT BUILDUP.

## ANNUALLY:

***IT IS RECOMMENDED THAT THE LIFT IS INSPECTED BY A CERTIFIED LIFT INSPECTOR ANNUALLY.***

- **INSPECT THE HYDRAULIC FLUID:**

INSPECT THE FLUID LOOKING FOR DISCOLORATION AND ANY FOREIGN MATTER.

REPLACE THE FLUID IF IT IS DISCOLORED OR DIRTY (USE DEXRON III)

- **CLEAN THE SWING ARM PIVOT POINTS:**

REMOVE THE SWING ARMS. THOROUGHLY CLEAN.

LUBRICATE USING A LIGHT LUBRICANT (WD-40 OR EQUIVALENT) REINSTALL. DO NOT USE GREASE.

- **CLEAN THE SWING ARM RESTRAINTS:**

REMOVE THE SWING ARM RESTRAINTS AND THOROUGHLY CLEAN.

LUBRICATE USING A LIGHT LUBRICANT (WD-40 OR EQUIVALENT) REINSTALL. DO NOT USE GREASE.

## TROUBLESHOOTING:



**NEVER ATTEMPT TO LOOSEN HYDRAULIC FITTINGS OR OVERRIDE SAFETY DEVICES WITH A VEHICLE ON THE LIFT OR PRESSURE ON THE SYSTEM. DOING SO COULD CAUSE SERIOUS INJURY OR DAMAGE.**

### HYDRAULIC SAFETY CHECK:

THE HYDRAULIC SAFETY CHECK IS PERFORMED TO CHECK THAT THE SAFETIES BUILT IN TO THE HYDRAULIC CYLINDERS ARE FUNCTIONING CORRECTLY.

#### MAINSIDE SAFETY CHECK:

RAISE THE UNIT APPROXIMATELY 3 FEET  
 PULL THE **OFFSIDE** LOCK RELEASE CABLE  
 ENGAGE THE LOWERING HANDLE UNTIL THE **MAINSIDE** CARRIAGE IS SITTING ON THE LOCK.  
 CONTINUE TO HOLD DOWN THE LOWERING HANDLE, OBSERVE THE **OFFSIDE** CARRIAGE FOR MOVEMENT.

THE CHECK HAS PASSED IF THE **OFFSIDE** CARRIAGE STOPS MOVING.

IF THE **OFFSIDE** CARRIAGE CONTINUES TO LOWER THEN THERE IS AN ISSUE WITH THE HYDRAULIC SYSTEM SAFETIES.

#### MAINSIDE SAFETY CHECK FAILURE:

IF THE SAFETY CHECK FAILS THE POSSIBLE CAUSES ARE:

- DIVERTER VALVE IS LEAKING BY
- OFFSIDE CYLINDER SEAL FAILURE.

#### OFFSIDE SAFETY CHECK:

RAISE THE UNIT APPROXIMATELY 3 FEET  
 PULL THE **MAINSIDE** LOCK RELEASE CABLE  
 ENGAGE THE LOWERING HANDLE UNTIL THE **OFFSIDE** CARRIAGE IS SITTING ON THE LOCK.  
 CONTINUE TO HOLD DOWN THE LOWERING HANDLE, OBSERVE THE **MAINSIDE** CARRIAGE FOR MOVEMENT.

THE CHECK HAS PASSED IF THE **MAINSIDE** CARRIAGE STOPS MOVING.

IF THE **MAINSIDE** CARRIAGE CONTINUES TO LOWER THEN THERE IS AN ISSUE WITH THE HYDRAULIC SYSTEM SAFETIES.

#### OFFSIDE SAFETY CHECK FAILURE:

IF THE SAFETY CHECK FAILS THE POSSIBLE CAUSES ARE:

- FLOW CONTROL VALVE IN THE MAINSIDE CYLINDER IS LEAKING BY.
- MAINSIDE SEAL FAILURE.

**THESE CHECKS ARE USED FOR AN INITIAL DIAGNOSIS OF A POTENTIAL ISSUE WITH THE HYDRAULIC SYSTEM, IF FOR ANY REASON ONE OF THESE CHECKS FAILS, PLEASE CONTACT YOUR LOCAL MOHAWK REPAIR SERVICE OR THE MOHAWK FACTORY SERVICE DEPARTMENT FOR ASSISTANCE WITH FURTHER DIAGNOSIS.**

**SEE THE FOLLOWING PAGES FOR TROUBLESHOOTING HELP**

## NOT RAISING LOAD

POSSIBLE CAUSE	SOLUTION
LOW HYDRAULIC FLUID LEVEL	LOWER UNIT. REMOVE RESERVOIR BREATHER CAP. FILL UNIT TO WITHIN 1/2 INCH BELOW PORT. USE DEXRON III TRANSMISSION / HYDRAULIC FLUID.
PRESSURE RELIEF ADJUSTMENT	CONSULT MOHAWK SERVICE DEPARTMENT
PRESSURE RELIEF CONTAMINATION	CONSULT MOHAWK SERVICE DEPARTMENT
VOLTAGE TO POWER UNIT	REFER TO POWER UNIT SPECIFICATIONS. CONSULT AN ELECTRICIAN.
UNIT OVERLOADED	VEHICLE IS TOO HEAVY TO BE RAISED

## NOT LOWERING

POSSIBLE CAUSE	SOLUTION
MECHANICAL LOCKS ENGAGED	RAISE UNIT. DISENGAGE MECHANICAL LOCKS.
UNIT UNEVEN (SIDE TO SIDE)	RAISE UNIT TO FULL HEIGHT TO EQUALIZE. THEN LOWER OR USE DIVERTER VALVE TO EQUALIZE
POSTS OUT OF SQUARE	VERIFY LEVEL ASSEMBLY. MAKE ANY AND ALL NECESSARY ADJUSTMENTS.
DEBRIS IN POSTS (TOOLS, ETC.)	CLEAN UNIT
OBSTRUCTION UNDER VEHICLE OR LIFT	REMOVE OBSTRUCTION.

## RAISING UNEVEN

**RULE OF THUMB: IF THE MAIN SIDE IS HIGH, RUN UNIT TO FULL HEIGHT. IF THE MAIN SIDE IS LOW, LOWER UNIT TO THE FLOOR. ALLOW TIME FOR THE OFFSIDE TO EQUALIZE.**

POSSIBLE CAUSE	SOLUTION
AIR IN SYSTEM	BLEED UNIT. REFER TO BLEEDING PROCEDURES.
CARRIAGE BEARINGS CONTACTING CARRIAGE STOPS	CARRIAGE BEARINGS MUST NOT CONTACT CARRIAGE STOPS.
POSTS OUT OF SQUARE	VERIFY LEVEL ASSEMBLY. MAKE ANY AND ALL NECESSARY ADJUSTMENTS.
SHOP FLOOR UNEVEN	VERIFY PROPER INSTALLATION OF MAIN SIDE POST. THE MAIN SIDE MUST BE ON THE HIGH SIDE.

## RAISING UNEVEN, CONTINUED

POSSIBLE CAUSE	SOLUTION
SHOP FLOOR UNEVEN	USE SPECIAL LIFT PADS. (AVAILABLE UPON REQUEST)
DIVERTER VALVE	REMOVE BLEED LINE FROM THE TOP OF THE OFFSIDE CYLINDER AND CAP USING MOHAWK PART # 601-420-001. IF THE UNIT NO LONGER DRIFTS DOWN THE OFFSIDE CYLINDER WILL NEED TO BE SERVICED OR REPLACED.
OFFSIDE CYLINDER	REMOVE BLEED LINE FROM THE TOP OF THE OFFSIDE CYLINDER AND CAP USING MOHAWK PART # 601-420-001. IF THE UNIT CONTINUES TO DRIFT DOWN THE DIVERTER PULL VALVE WILL NEED TO BE CLEANED OR REPLACED.
MAIN SIDE CYLINDER	PERFORM HYDRAULIC SAFETY CHECKS. CHECK FOR INTERNAL HYDRAULIC LEAKS

## SLOW DRIFT DOWN

POSSIBLE CAUSE	SOLUTION
SAFETIES NOT ENGAGED	RAISE UNIT TO RE-ENGAGE SAFETIES. THEN LOWER UNIT ONTO SAFETIES.
POWER UNIT LOWERING VALVE CONTAMINATION	BACK FLUSH POWER UNIT: PULL DOWN ON THE LOWERING HANDLE, AND THEN ENGAGE THE UP BUTTON AT THE SAME TIME. RUN UNIT APPROX. 10 SECONDS
DIVERTER VALVE	REMOVE BLEED LINE FROM THE TOP OF THE OFFSIDE CYLINDER AND CAP USING MOHAWK PART # 601-420-001. IF THE UNIT NO LONGER DRIFTS DOWN THE OFFSIDE CYLINDER WILL NEED TO BE SERVICED OR REPLACED.
OFFSIDE CYLINDER	REMOVE BLEED LINE FROM THE TOP OF THE OFFSIDE CYLINDER AND CAP USING MOHAWK PART # 601-420-001. IF THE UNIT CONTINUES TO DRIFT DOWN THE DIVERTER PULL VALVE WILL NEED TO BE CLEANED OR REPLACED.

## EXTERNAL HYDRAULIC LEAKS

**NOTE: DO NOT OVERTIGHTEN FITTINGS**

POSSIBLE CAUSE	SOLUTION
MAIN SIDE CYLINDER	THOROUGHLY CLEAN THE CYLINDER. VERIFY LEAK ORIGIN. FITTINGS ARE TO BE TIGHTENED PER SPECIFICATIONS
OFFSIDE CYLINDER	THOROUGHLY CLEAN THE CYLINDER. VERIFY LEAK ORIGIN. FITTINGS ARE TO BE TIGHTENED PER SPECIFICATIONS.
BAD FLAIR OR FITTING	REMOVE THE HYDRAULIC LINE AND INSPECT FLAIR AND FITTING FOR DEFORMATION. REPLACE IF NEEDED.
BAD O-RING (O-RING TYPE FITTINGS)	CHANGE O-RING

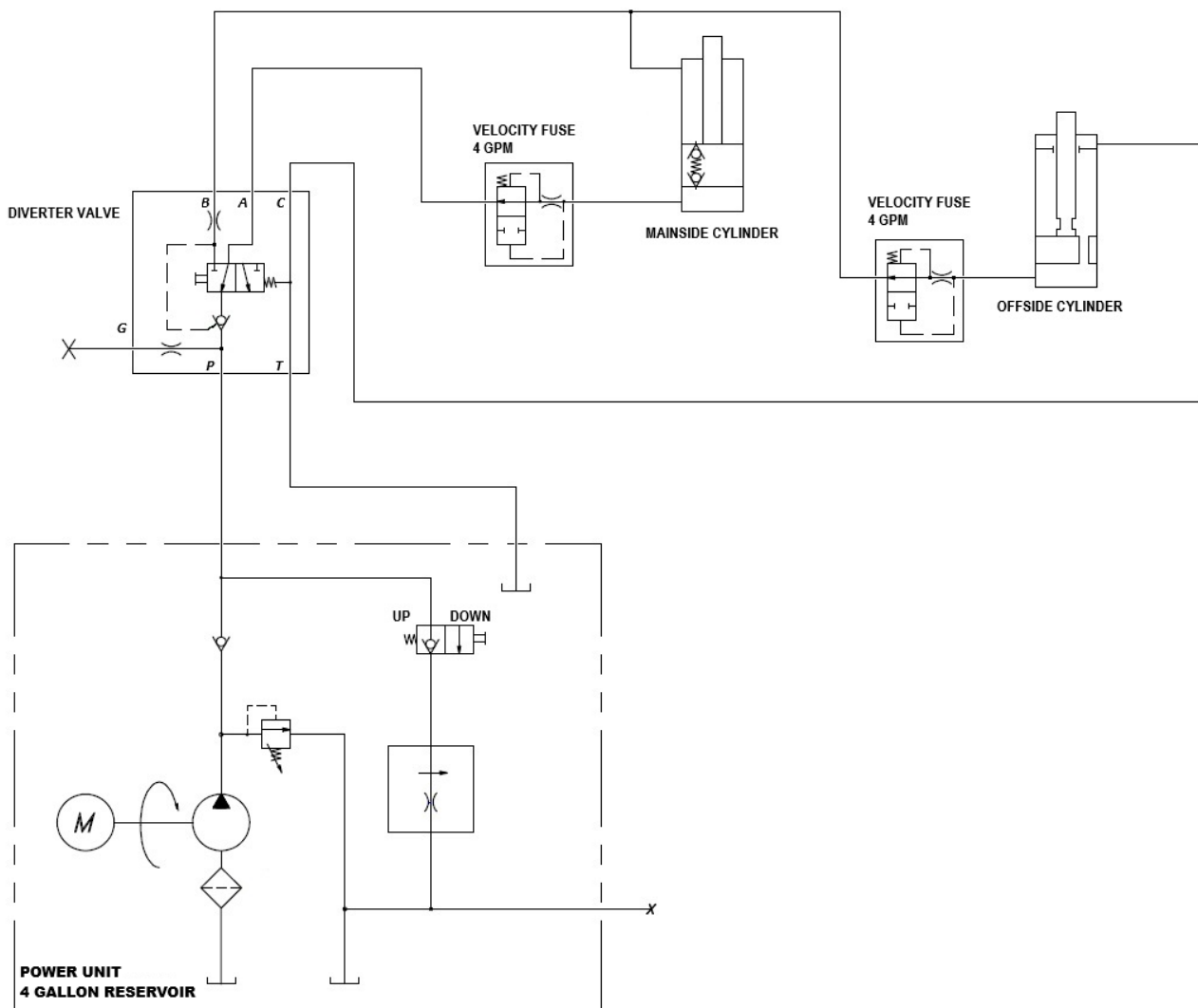
## MECHANICAL LOCK RE-ENGAGES

POSSIBLE CAUSE	SOLUTION
FLIPPER IS WORN	REPLACE FLIPPER

## MECHANICAL LOCK HARD TO PULL

POSSIBLE CAUSE	SOLUTION
FLIPPER STICKING ONTO LOCK BAR	APPLY A SMALL AMOUNT OF LUBRICANT TO THE LOCK BAR WHERE THE FLIPPER RIDES. (DO NOT USE HEAVY GREASE)

### HYDRAULIC SCHEMATIC:



**MOHAWK LIFTS**  
Americas Best Lift Investment...



# PARTS

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**WHEN REPLACING PARTS USE ONLY OEM REPLACEMENT PARTS.**

EMAIL: [PARTS@MOHAWKLIFTS.COM](mailto:PARTS@MOHAWKLIFTS.COM)

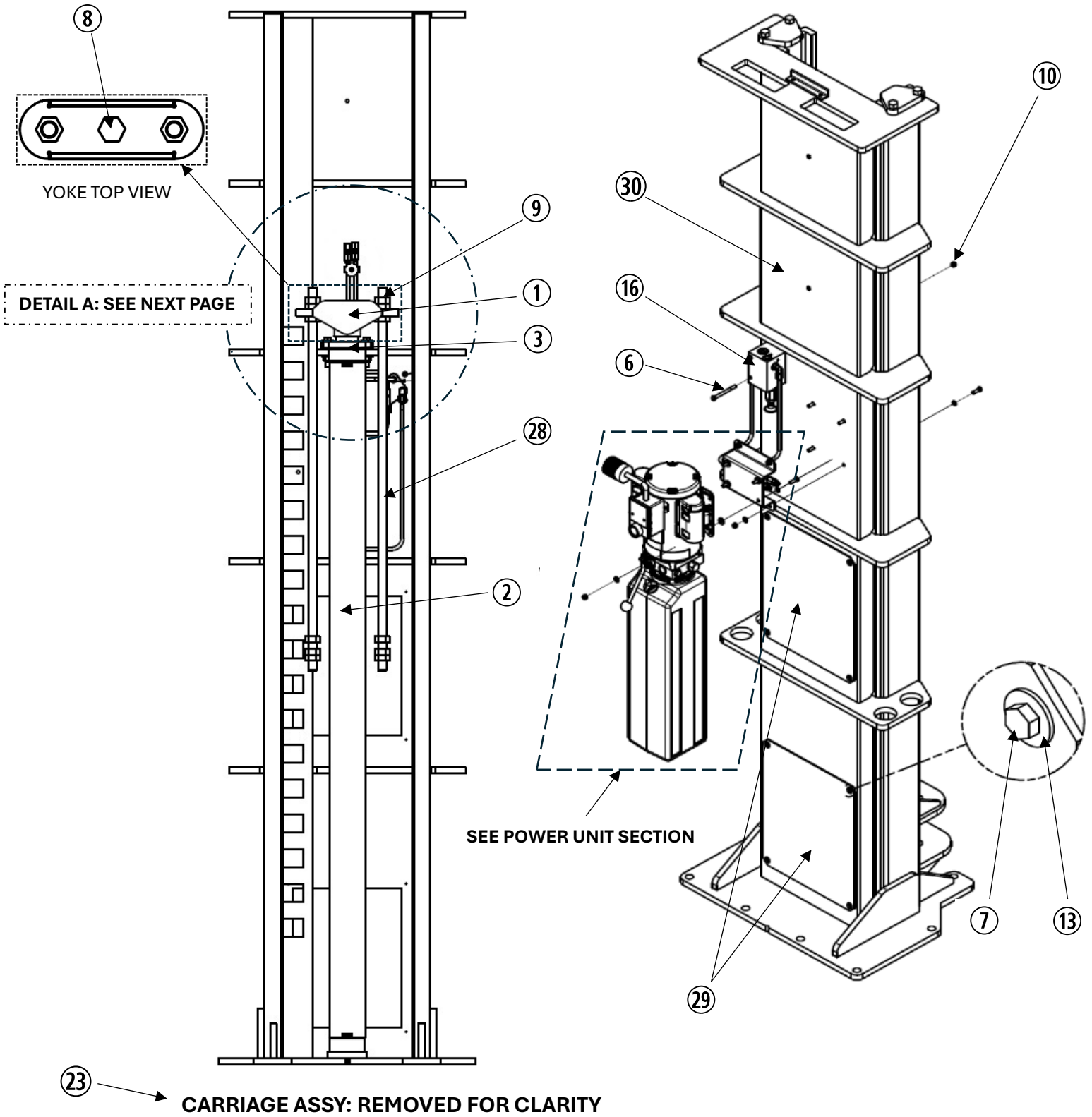
PHONE: 518-842-1431 EXT.3300

# MOHAWK LIFTS

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Toll Free: 1-800-833-2006  
[www.mohawklifts.com](http://www.mohawklifts.com)

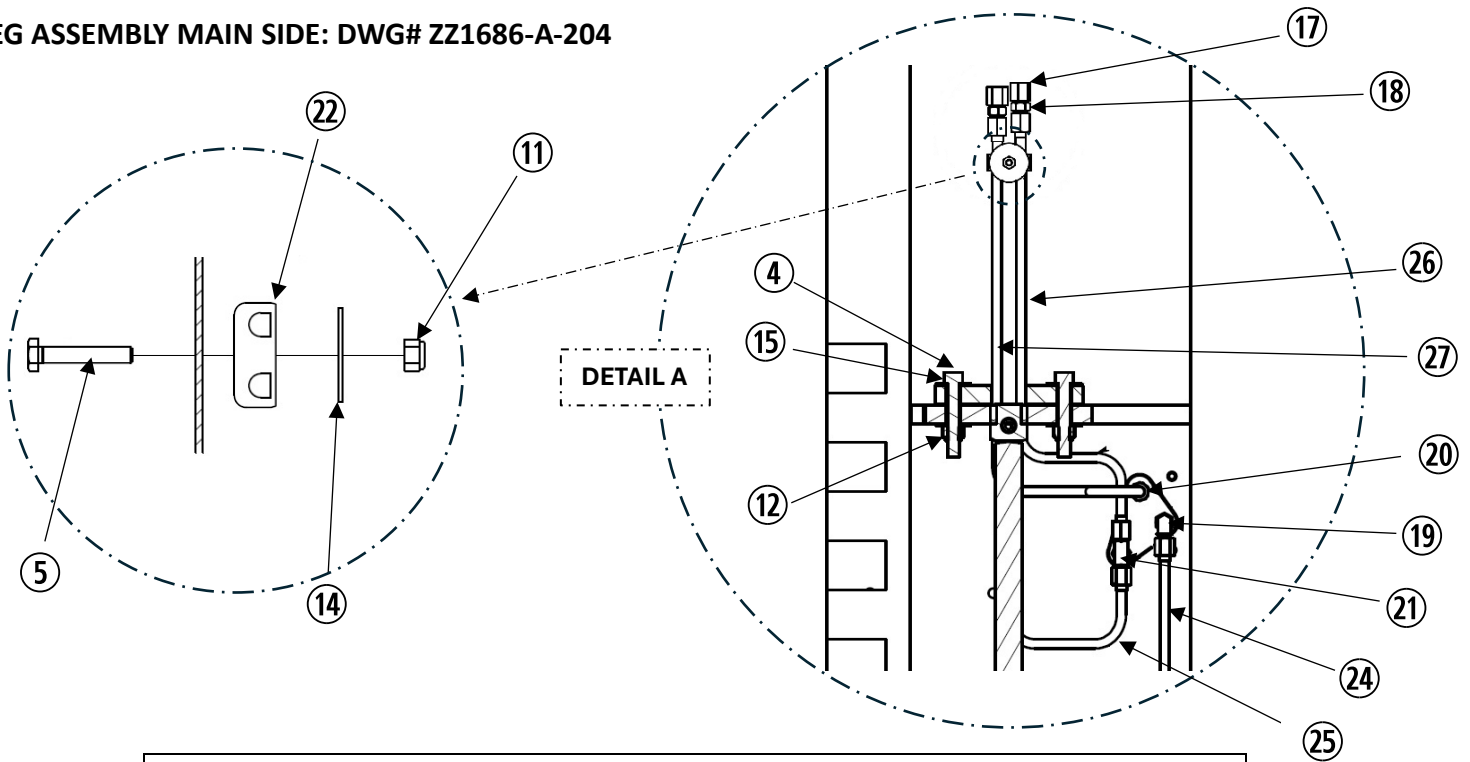
PLEASE HAVE THE MODEL AND SERIAL NUMBER AVAILABLE WHEN CONTACTING FOR PARTS.

## LEG ASSEMBLY MAIN SIDE: DWG# ZZ1686-A-204



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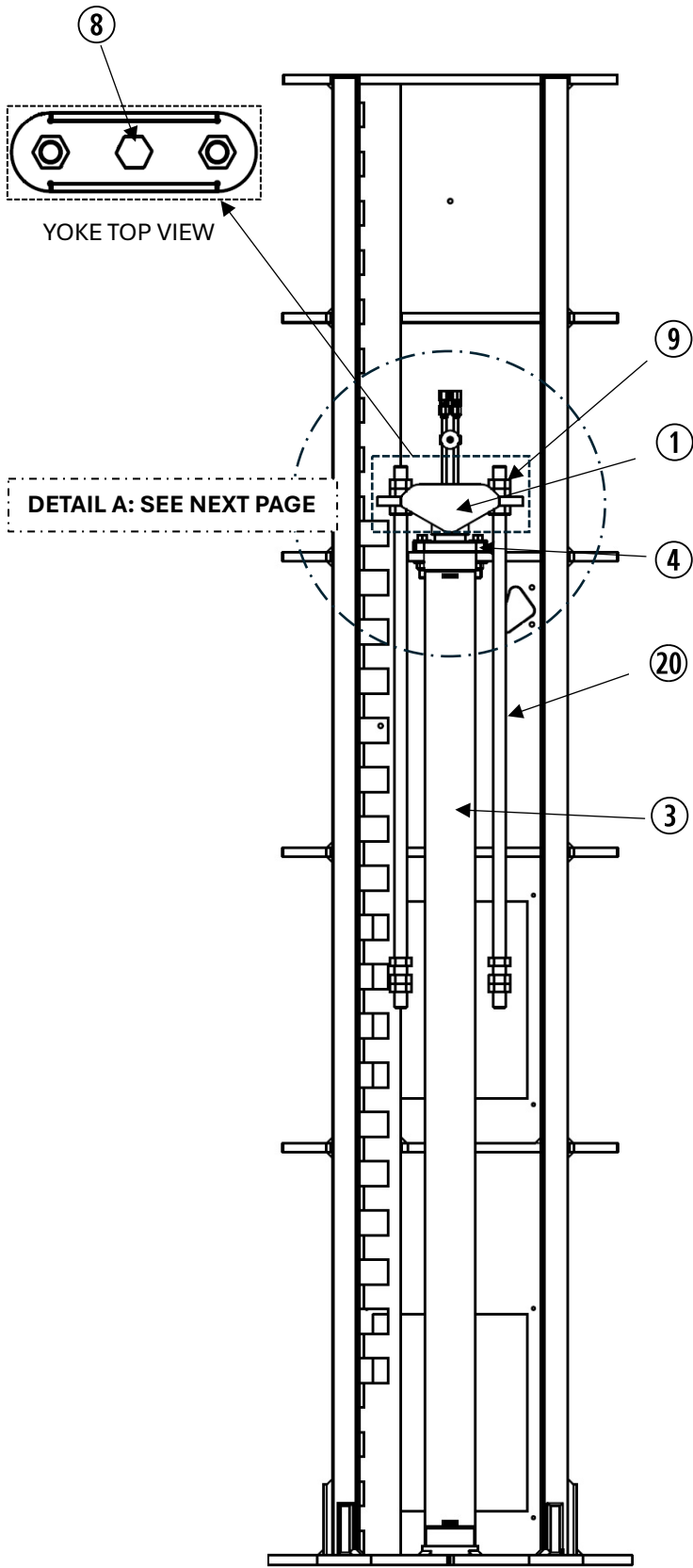
LEG ASSEMBLY MAIN SIDE: DWG# ZZ1686-A-204



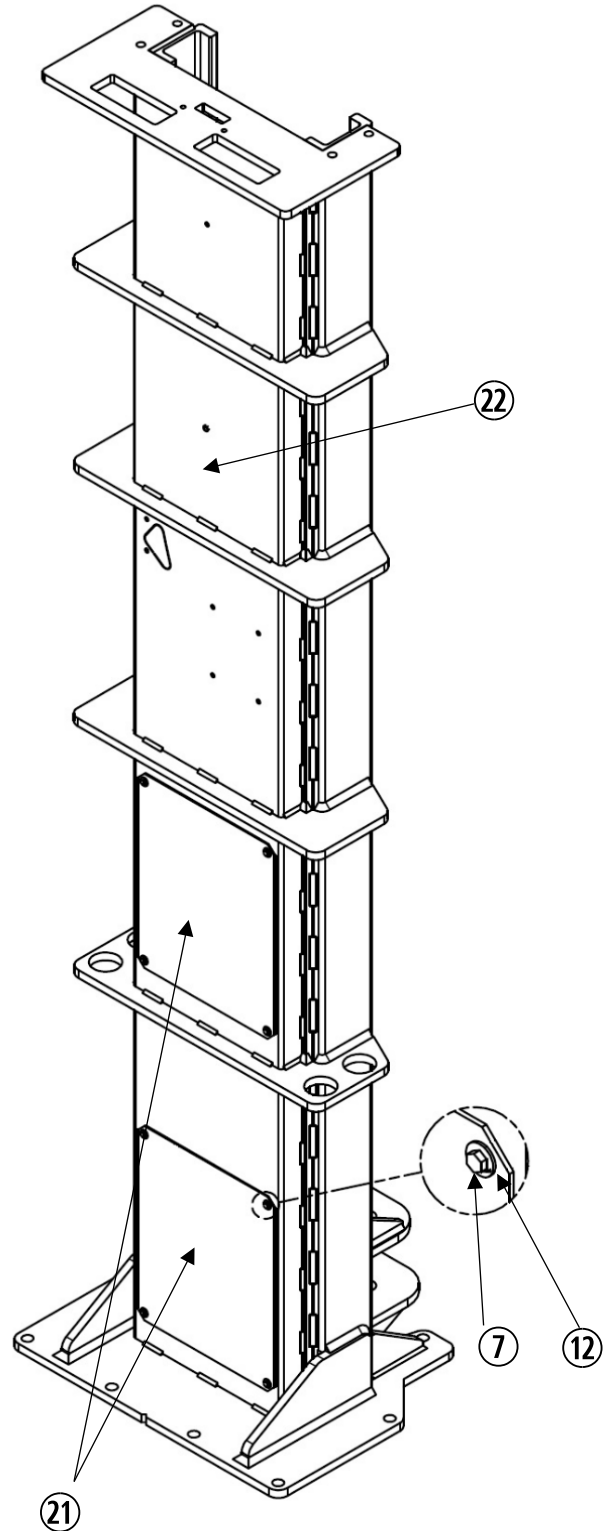
ITEM	PART NUMBER	DESCRIPTION	QTY
1	012-012-016-P	YOKE WELD MS LMF 16 18	1
2	015-000-009-P	CYL ASSY MS LMF 16 18 (PAINTED)	1
3	015-000-103-P	CYL RETAINER LMF 16 18 (PAINTED)	1
4	600-640-018	HCS 1/2-13NC X 3 GR5	2
5	600-640-019	HCS 1/4-20NC X 1 1/2 GR5	1
6	600-640-020	HCS 5/16-18NC X 3 1/2 GR5	2
7	600-640-042	BOLT, HEX HEAD, 1/4-20 NC x 1/2 (GR5)	8
8	600-640-055	HCS 1-14NF X 2 1/2 GR8	1
9	600-680-004	NUT PLAIN 1-14NF GR5	12
10	600-690-001	NUT NYLON-INSERT LOCK 5/16-18NC GR5	2
11	600-690-005	NUT, NYLON LOCK, 1/4-20 NC	1
12	600-690-009	NUT, NYLON LOCK, 1/2-13 NC	2
13	600-710-004	WASHER, FLAT, 1/4	8
14	600-710-006	FLATWASHER 5/16 FENDER	1
15	600-710-008	FLATWASHER 1/2 USS (26/LB)	4
16	601-410-030	VALVE DIVERTER #212239AA	1
17	601-420-001	CAP NUT 9/16 -18NF #6 JIC #210292-6S	2
18	601-420-011	STRAIGHT UNION, #6 JIC/ #6 JIC	2
19	601-420-017	ELBOW, 90°, #6 ORB/ #6 JIC	1
20	601-420-019	FITTING STR #202702-6-6S 6ORBM 6JICM	1
21	601-420-046	FITTING BRNCH TE #203003-6-6 6ORBM 6JICM	1
22	601-710-001	DUAL TUBE CLAMP 3/8IN #2993T93 (25/BX)	1
23	ZZ1686-A-104	CARRIAGE ASSEMBLY, 10' LEG, ML-220	1
24	ZZ1686-A-210	TUBING ASSEMBLY, 3/8 OD x 78.5 LG	1
25	ZZ1686-A-211	TUBING ASSEMBLY, 3/8 OD x 14.25 LG	1
26	ZZ1686-A-212	TUBING, HYDRAULIC, 3/8 OD x 20 1/8 LG	1
27	ZZ1686-A-213	TUBING ASSEMBLY, 3/8 OD x 23 3/4 LG	1
28	ZZ1686-P-231-P	LIFTING ROD, 10' LEG, ML-220	2
29	ZZ1686-W-202-P	WELD, ACCESS PANEL, BACK, ML-220	2
30	ZZ1686-W-203-P	WELD, LEG, 10' TALL, ML-220	1

**\*\*WIDE BASE LEG: ZZ1686-W-204\*\***

## LEG ASSEMBLY OFFSIDE: DWG# ZZ1686-A-205

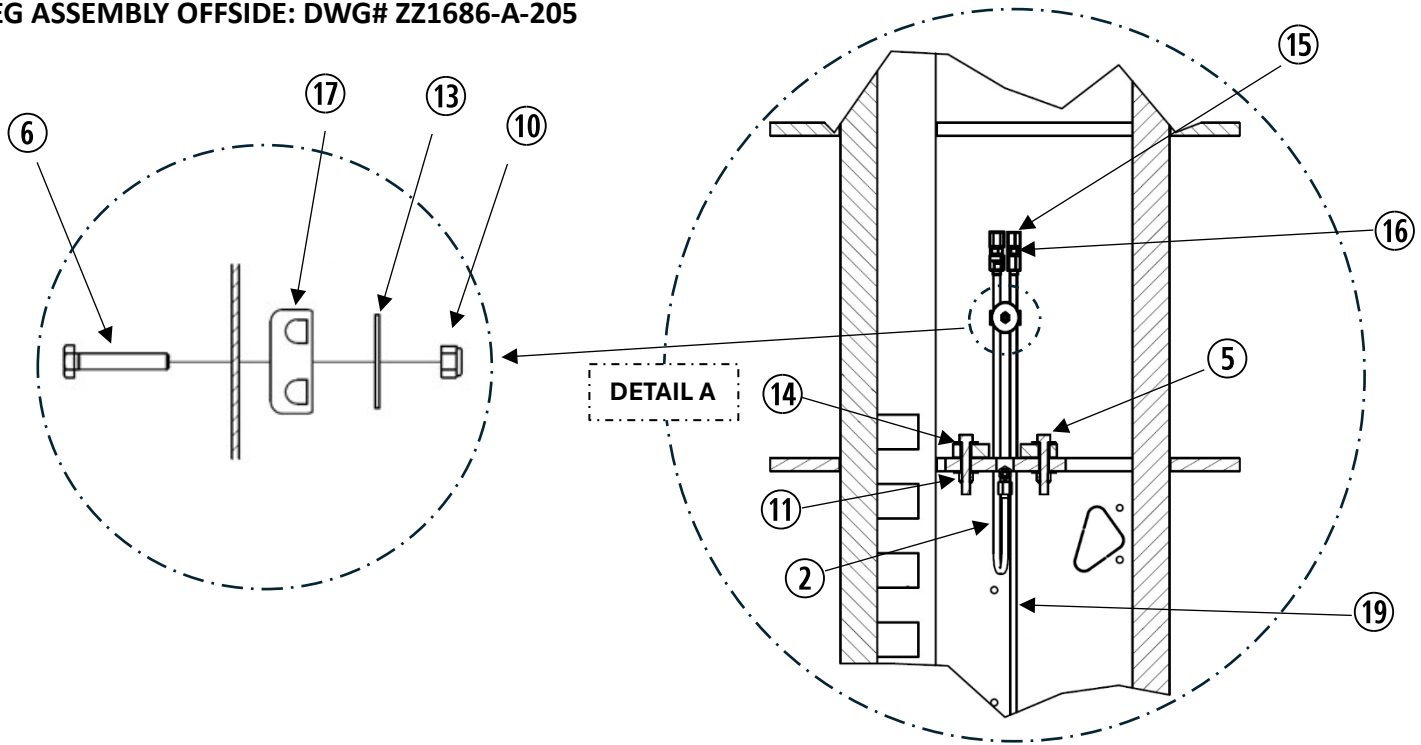


18 → CARRIAGE ASSY: REMOVED FOR CLARITY



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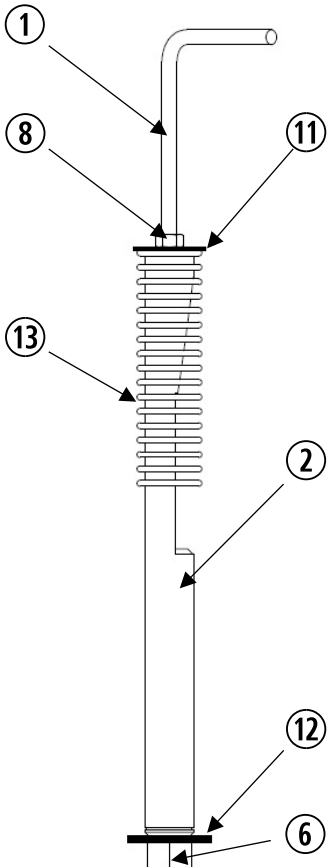
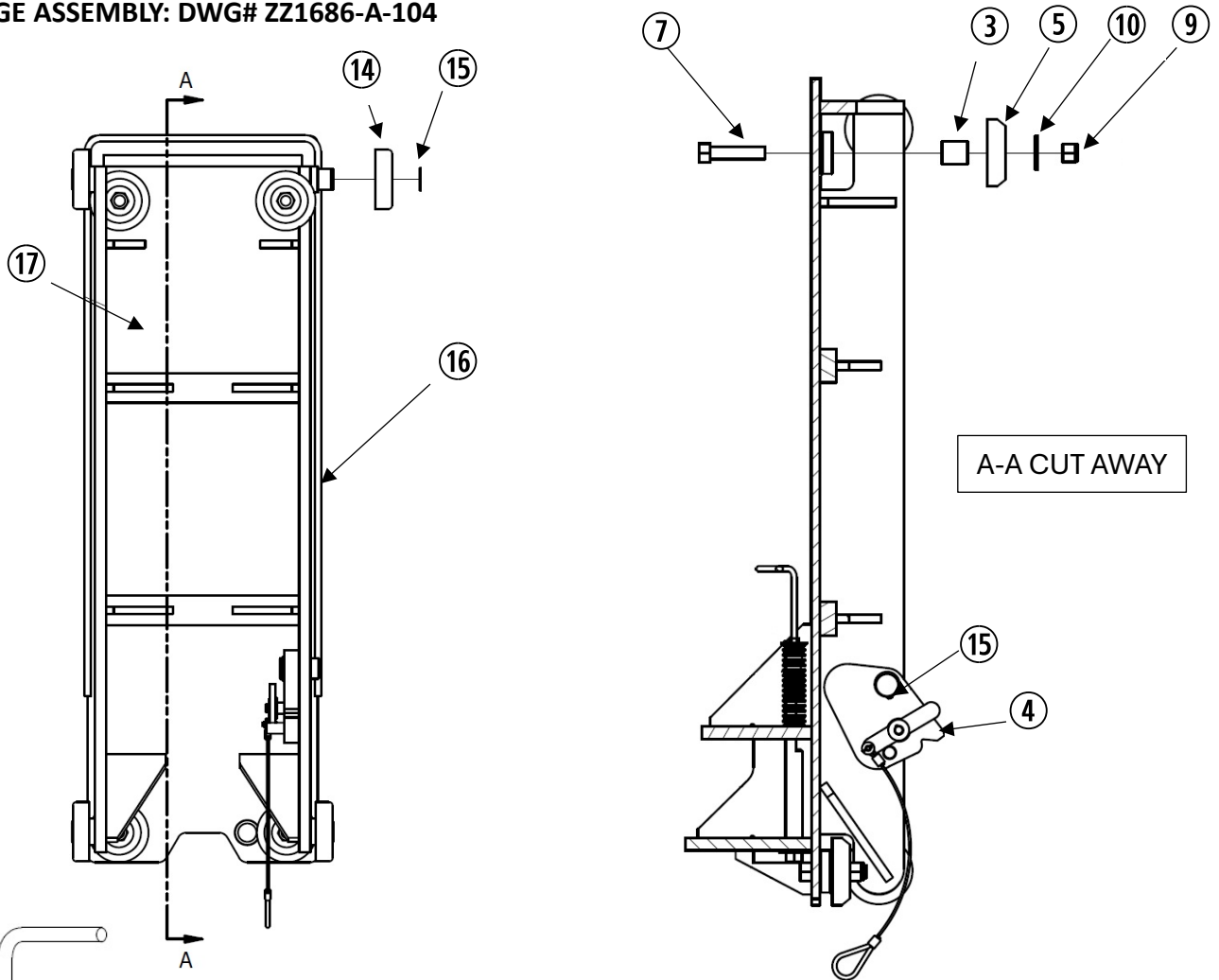
LEG ASSEMBLY OFFSIDE: DWG# ZZ1686-A-205



ITEM	PART NUMBER	DESCRIPTION	QTY
1	012-012-009	YOKE WELDMENT (OFFSIDE)	1
2	012-012-027	TUBING ASSEMBLY, 3/8 OD x 24 3/4 LG	1
3	015-000-010	CYL ASSY OS LMF 16 18	1
4	015-000-103	CYL RETAINER LMF 16 18	1
5	600-640-018	HCS 1/2-13NC X 3 GR5	2
6	600-640-019	HCS 1/4-20NC X 1 1/2 GR5	1
7	600-640-042	BOLT, HEX HEAD, 1/4-20 NC x 1/2 (GR5)	8
8	600-640-055	HCS 1-14NF X 2 1/2 GR8	1
9	600-680-004	NUT PLAIN 1-14NF GR5	12
10	600-690-005	NUT, NYLON LOCK, 1/4-20 NC	1
11	600-690-009	NUT, NYLON LOCK, 1/2-13 NC	2
12	600-710-004	WASHER, FLAT, 1/4	8
13	600-710-006	FLATWASHER 5/16 FENDER	1
14	600-710-008	FLATWASHER 1/2	4
15	601-420-001	CAP NUT 9/16 -18NF #6 JIC	2
16	601-420-011	STRAIGHT UNION, #6 JIC/ #6 JIC	2
17	601-710-001	DUAL TUBE CLAMP 3/8IN	1
18	ZZ1686-A-104	CARRIAGE ASSEMBLY, 10' LEG, ML-220	1
19	ZZ1686-A-214	TUBING ASSEMBLY, 3/8 OD x 91 1/2 LG	1
20	ZZ1686-P-231	LIFTING ROD, 10' LEG, ML-220	2
21	ZZ1686-W-202	WELD, ACCESS PANEL, BACK, ML-220	2
22	ZZ1686-W-203	WELD, LEG, 10' TALL, ML-220	1

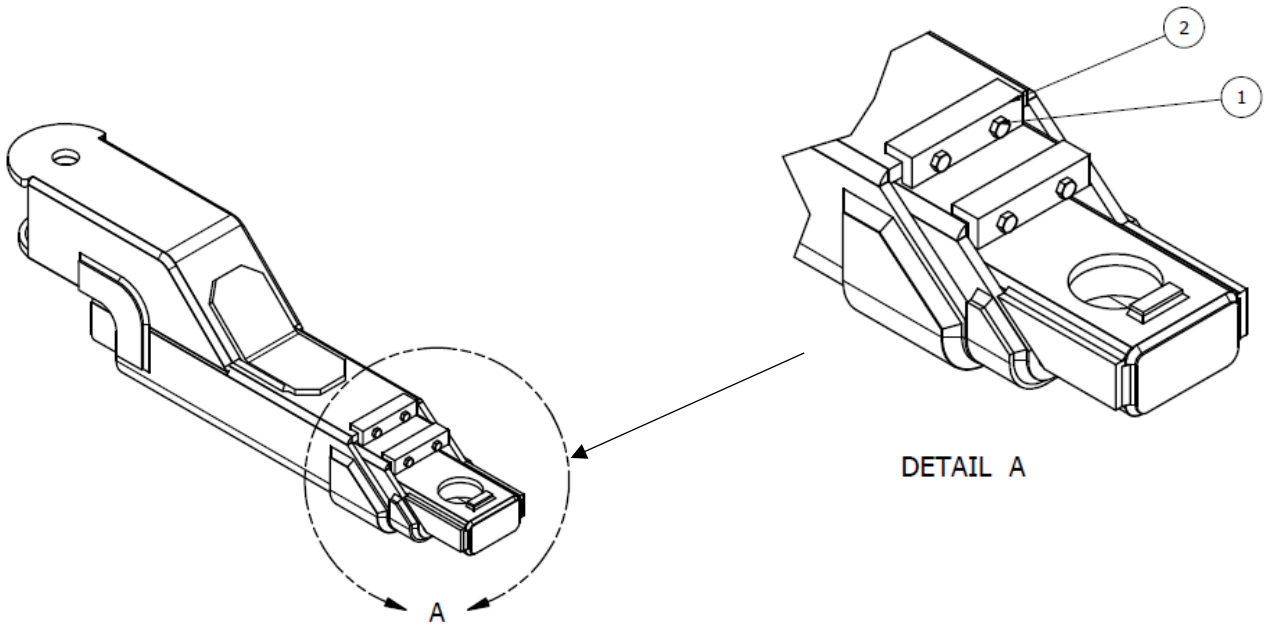
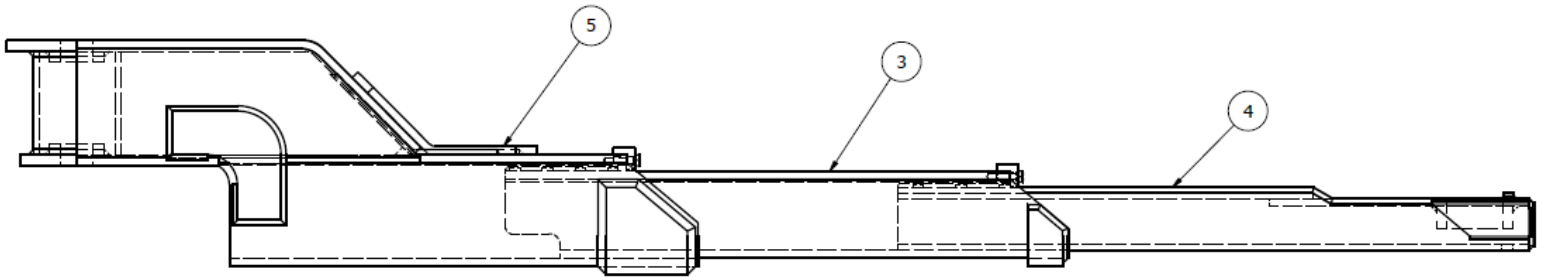
\*\*WIDE BASE LEG: ZZ1686-W-204\*\*

CARRIAGE ASSEMBLY: DWG# ZZ1686-A-104



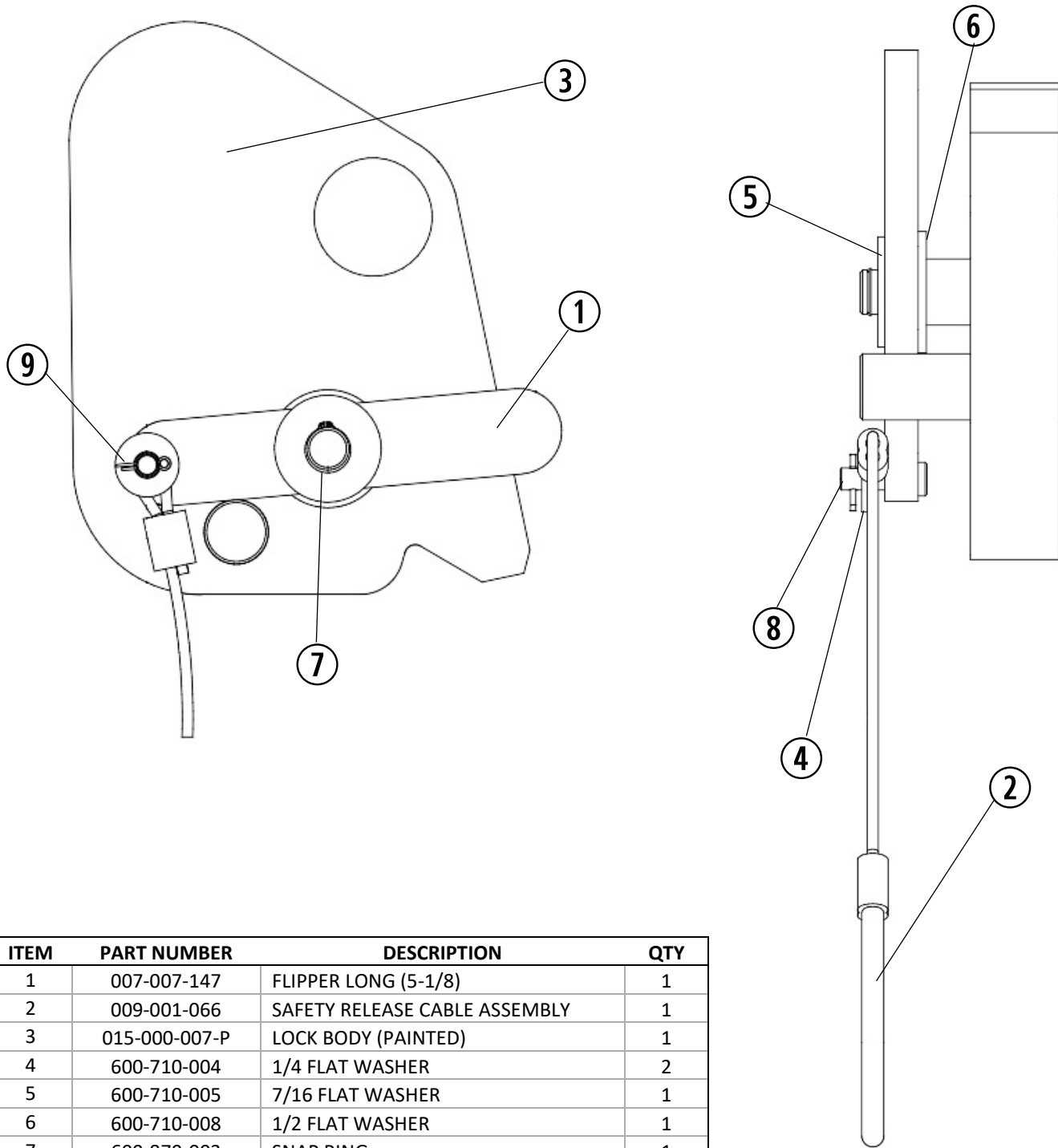
ITEM	PART NUMBER	DESCRIPTION	QTY
1	007-007-141	HANDLE (ARM RESTRAINT)	2
2	009-001-156	ARM RESTRAINT PIN IA LMF	2
3	012-012-152	BEARING PIVOT	4
4	015-000-008	LATCH BODY ASSEMBLY	1
5	015-000-028	CARRIAGE SIDE BEARING ASSY LMF 16 18	4
6	600-640-010	HCS 5/8-11NC X 2 1/2 GR5	2
7	600-640-241	HCS 3/4-16NF X 3 1/4 GR5	4
8	600-680-003	NUT PLAIN 5/16-18NC GR5	2
9	600-690-003	NUT NYLON-INSERT LOCK 3/4-16NF GR5	4
10	600-710-001	FLATWASHER 3/4 USS	4
11	600-710-006	FLATWASHER 5/16 FENDER	2
12	600-710-007	FLATWASHER 5/8 USS	2
13	600-840-006	SPRING CENTURY	2
14	600-860-015	BEARING MAST GUIDE	4
15	600-870-001	SNAP RING	5
16	601-620-003	TRIM-LOC #1350-3/8-B-2-ALUM	90"
17	ZZ1686-W-106-P	CARRIAGE WELD 10' LEG ML-220 (PAINTED)	1

SWING ARM ASSEMBLY: DWG# ZZ1686-A-001



ITEM	PART NUMBER	DESCRIPTION	QTY
1	600-640-001	BOLT, HEX HEAD, 5/16-18 NC X 1"	4
2	ZZ1686-P-056-P	5/16-24 X 5/8 HEX HEAD SELF TAPPING SCREW	2
3	ZZ1686-W-005-P	SLIDER WELDMENT, STAGE 2 LMF-3SA PAINTED	1
4	ZZ1686-W-006-P	SLIDER WELDMENT, STAGE 3, LMF-3SA PAINTED	1
5	ZZ1686-W-008-P	SWING ARM WELD, STAGE 1, LMF-3SA PAINTED	1

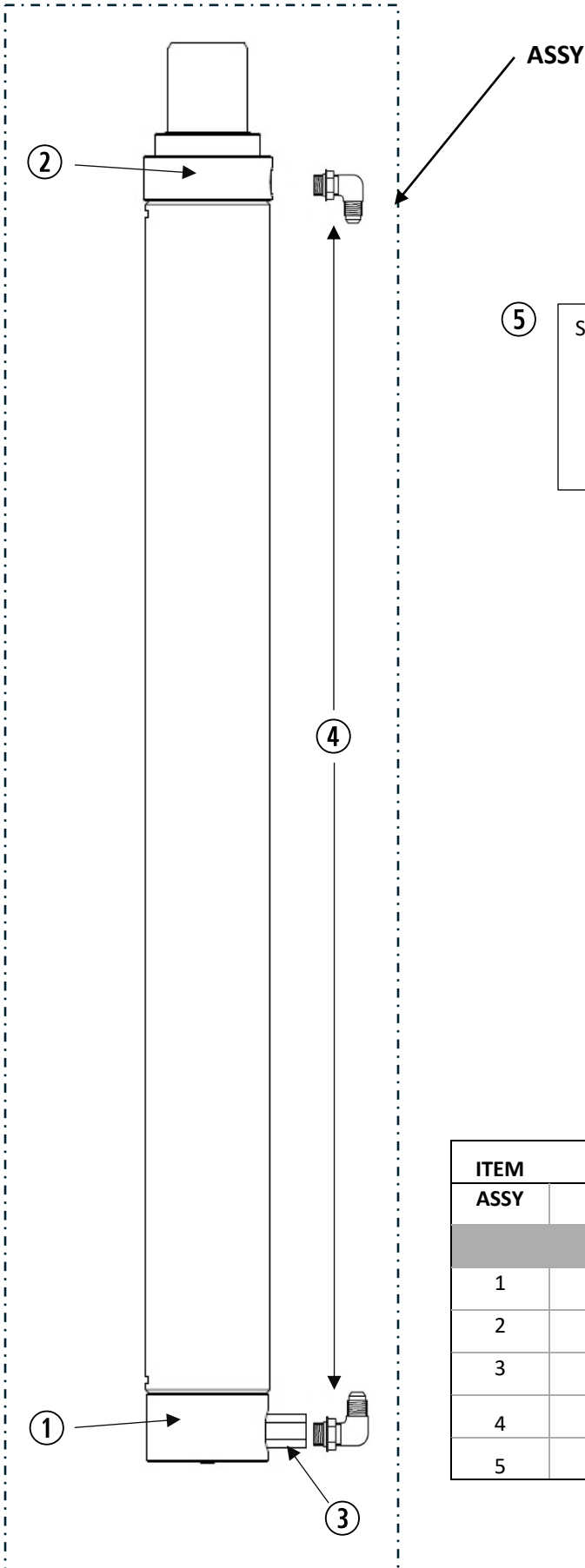
LOCK BODY ASSEMBLY: DWG# 015-000-008



ITEM	PART NUMBER	DESCRIPTION	QTY
1	007-007-147	FLIPPER LONG (5-1/8)	1
2	009-001-066	SAFETY RELEASE CABLE ASSEMBLY	1
3	015-000-007-P	LOCK BODY (PAINTED)	1
4	600-710-004	1/4 FLAT WASHER	2
5	600-710-005	7/16 FLAT WASHER	1
6	600-710-008	1/2 FLAT WASHER	1
7	600-870-003	SNAP RING	1
8	600-880-001	1/4 DIA. X 7/8 LONG CLEVIS PIN	1
9	600-890-002	5/64 X 1/2 LONG COTTER PIN	1



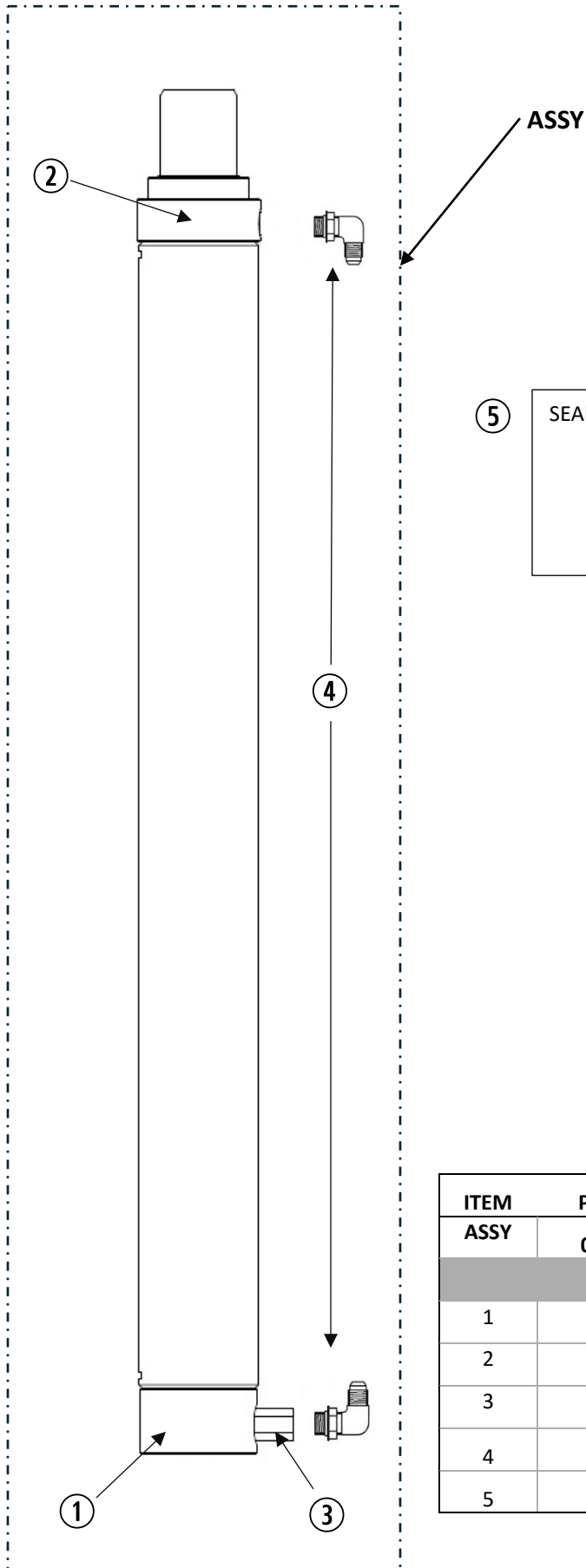
CYLINDER MAIN SIDE: DWG# 015-000-009



- ⑤ SEAL KIT INCLUDES:
- ALL APPLICABLE SEALS FOR THE TOP AND BOTTOM GLAND.
  - ALL APPLICABLE SEALS ON THE ROD.
  - REPLACEMENT SPIN KEYS.

ITEM	PART NUMBER	DESCRIPTION	QTY
ASSY	015-000-009-P	CYL ASSY MS LMF	1
1	007-007-007	CYL BOTTOM GLAND ASSY	1
2	015-000-011	CYL ROD GLAND ASSY	1
3	601-410-031	VELOCITY FUZE	1
4	601-420-017	ELBOW, 90 DEG 60RBM-6JICM	2
5	012-012-098	SEAL KIT (MS)	1

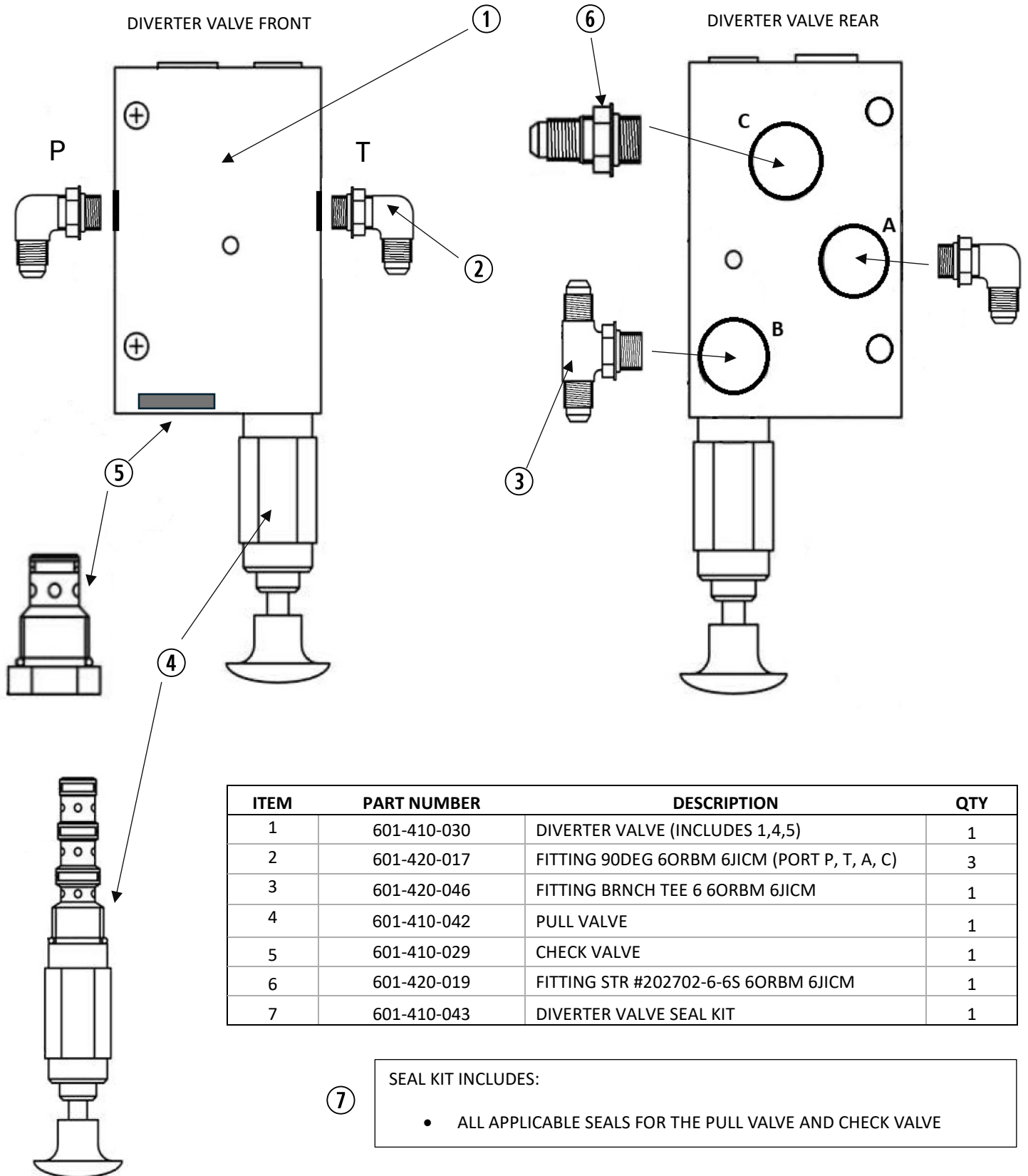
CYLINDER OFFSIDE: 015-000-010



- ⑤ SEAL KIT INCLUDES:
- ALL APPLICABLE SEALS FOR THE TOP AND BOTTOM GLAND.
  - ALL APPLICABLE SEALS ON THE ROD.
  - REPLACEMENT SPIN KEYS.

ITEM	PART NUMBER	DESCRIPTION	QTY
ASSY	015-000-010-P	CYL ASSY OS LMF	1
1	007-007-009	CYL BOTTOM GLAND ASSY (OFFSIDE)	1
2	015-000-012	CYL ROD GLAND ASSY (OFFSIDE)	1
3	601-410-031	VELOCITY FUSE	1
4	601-420-017	ELBOW, 90 DEG 60RBM-6JICM	2
5	012-012-097	SEAL KIT (OS)	1

**DIVERTER VALVE: 601-410-030**



ITEM	PART NUMBER	DESCRIPTION	QTY
1	601-410-030	DIVERTER VALVE (INCLUDES 1,4,5)	1
2	601-420-017	FITTING 90DEG 6ORBM 6JICM (PORT P, T, A, C)	3
3	601-420-046	FITTING BRNCH TEE 6 6ORBM 6JICM	1
4	601-410-042	PULL VALVE	1
5	601-410-029	CHECK VALVE	1
6	601-420-019	FITTING STR #202702-6-6S 6ORBM 6JICM	1
7	601-410-043	DIVERTER VALVE SEAL KIT	1

⑦

SEAL KIT INCLUDES:

- ALL APPLICABLE SEALS FOR THE PULL VALVE AND CHECK VALVE

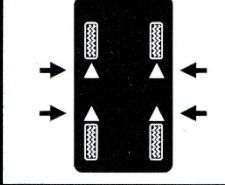
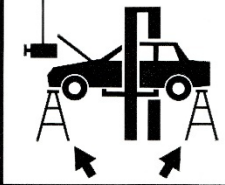
## SAFETY DECALS:

<p><b>NOTICE</b></p> 	<p><b>NOTICE</b></p> 
<p>Read operating and safety manuals before using lift.</p>	<p>Proper maintenance and inspection is necessary for safe operation.</p>
<p><b>NOTICE</b></p>  <p>Do not operate a damaged lift.</p>	<p>The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.</p> <p>Replacement label sets may be obtained from the original lift manufacturer and ALI's member companies.</p> <p>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 85, Cortland, NY 13045. These labels are protected by copyright.</p> <p>www.autolift.org © 2006-2017</p> <p>ALI/WL101</p>


<p><b>WARNING</b></p>  <p>Clear area if vehicle is in danger of falling.</p>	<p><b>WARNING</b></p>  <p>Position vehicle with center of gravity midway between adapters.</p>
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<p><b>CAUTION</b></p>  <p>Lift to be used by trained operator only.</p>	<p><b>CAUTION</b></p>  <p>Authorized personnel only in lift area.</p>
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<p><b>WARNING</b></p>  <p>Remain clear of lift when raising or lowering vehicle.</p>	<p><b>WARNING</b></p>  <p>Avoid excessive rocking of vehicle while on lift.</p>
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<p><b>CAUTION</b></p>  <p>Use vehicle manufacturer's lift points.</p>	<p><b>CAUTION</b></p>  <p>Always use safety stands when removing or installing heavy components.</p>
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<p><b>WARNING</b></p>  <p>Do not override self-closing lift controls.</p>	<p><b>WARNING</b></p>  <p>Keep feet clear of lift while lowering.</p>
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<p><b>CAUTION</b></p>  <p>Use height extenders when necessary to ensure good contact.</p>	<p><b>CAUTION</b></p>  <p>Auxiliary adapters may reduce load capacity.</p>
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The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

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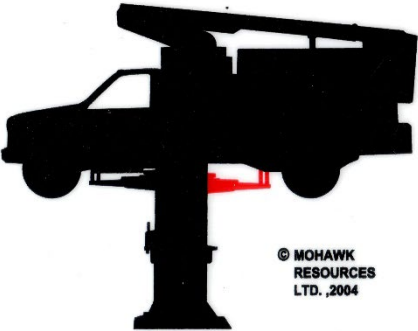
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**WARNING**



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**DO NOT EXCEED MAXIMUM CAPACITY PER SWING ARM WHEN LIFTING HEAVY ENDED VEHICLES.**

**VERIFY AXLE WEIGHT**  
Part No. 601-800-206

**COURTESY OF MOHAWK LIFTS**

# NOTICE

If attachments, accessories, or configuration modifying components used on this lift are located in the load path and affect operation of the lift, affect the lift electrical listing, or affect intended vehicle accommodation; and if they are not certified for use on this lift, then the certification of this lift shall become null and void. Contact the participant for information pertaining to certified attachments, accessories, or configuration modifying components.

**WARNING**

ONLY AUTHORIZED TRAINED OPERATORS SHALL TOUCH LIFT CONTROLS AT ANYTIME

**AVERTISSEMENT**

OPERATEURS FORMÉS SEULEMENT NE SONT AUTORISÉS TOUCHER DE LEVAGE CONTRÔLES A TOUT MOMENT

P/N #601-800-034

**CAUTION**

AFTER RAISING A VEHICLE ALWAYS LOWER UNIT ONTO BOTH MECHANICAL SAFETIES

**ATTENTION**

APRÈS AVOIR SOULEVÉ UN VÉHICULE, UNITÉ TOUJOURS PLUS FAIBLE ONLO DEUX SÉCURITÉS MÉCANIQUES

P/N #601-800-035

**WARNING:**

**Latches Do Not Automatically Reset After Disengagement. After The Latches Have Been Manually Disengaged, This Lift Must Be Raised Approximately 2 Inches To Reactivate Latches.**

**PART #601-800-109****WARNING: RISK OF EXPLOSION**

This Equipment Has Internal Arcing or Sparking Parts Which Should Not be Exposed to Flammable Vapors. It Should be Located At Least 460 mm (18 inches) Above The Floor. This Equipment is Only Suitable for Installation in a Garage Having Sufficient air Circulation to be Considered a Non-Hazardous Location.

**AVERTISSEMENT: RISQUE D'EXPLOSION.**

Cet équipement a les pièces courbantes ou de étincellements internes qui ne devraient pas être exposées aux vapeurs inflammables. Il devrait être situé au moins 460 millimètres (18 pouces) au-dessus du plancher. Cet équipement est seulement approprié à l'installation dans un garage ayant la circulation d'air suffisante à considérer un endroit non-hazardous.

**NOTICE:**

1. Disconnect Supply Circuit before Opening.
2. Do Not Use Below Garage Floor or Grade Level.
3. If Connected To A Circuit Protected By Fuses, Use Time-Delay Fuses Marked D.

**NOTIFICATION:**

1. Déconnecter Du Circuit D'alimentation Avant D'ouvrir.
2. Ne Pas Utiliser À Un Niveau Inférieur À Celui Du Plancher Du Garage Ou Du Sol.
3. Si Connecté À Un Circuit Protégé Par Des Fusibles Utiliser Des Fusibles À Une Action D'attente Marqués D.

PER STANDARD #UL-201

P/N: 601-800-215