

MOHAWK

MADE IN THE USA



LMF-12,TP-15,TP-16 & TP-18 (Air Release Locks)

**LMF-12 – 12,000 LB. CAPACITY TWO POST
TP-15 - 15,000 LB. CAPACITY TWO POST
TP-16 – 16,000 LB. CAPACITY TWO POST
TP-18 – 18,000 LB. CAPACITY TWO POST
VEHICLE LIFT MANUAL**

**THANK YOU
FOR SENDING IN YOUR
WARRANTY REGISTRATION
CARD**

**MOHAWK SERVICE
DEPARTMENT**

- ☒ INSTALLATION
- ☒ OPERATION
- ☒ MAINTENANCE
- ☒ PARTS



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.

AMSTERDAM, NY 12010

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File: LMF-15-16-18 w Airlocks 12-18-2013.doc

Rev Date 12/18/2013

Part #601-800-382

**READ MANUAL
THOROUGHLY BEFORE
INSTALLING,
OPERATING OR SERVICING
THIS LIFT !!**

**Deliver these instructions to lift
owner/user/employer along with
other instructional materials
furnished with this lift.**

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. Do not operate equipment with a damaged cord or if the equipment has been dropped or damaged - until it has been examined by a qualified serviceman.
3. Do not let cord or hoses come in contact with hot manifolds or moving fan blades.
4. If an extension cord is necessary, a cord with a current rating equal to or more than that of the equipment should be used. Cords rated for less current than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
5. Always unplug equipment from electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect
6. To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline). **WARNING: Risk of Explosion:** This equipment has internal arcing and sparking parts which should not be exposed to flammable vapors. This equipment is only suitable for installation in a garage having sufficient air circulation to be considered a non-hazardous location.
7. Adequate ventilation should be provided when working on operating internal combustion engines.
8. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
9. To reduce the risk of electric shock, do not use on wet surfaces or expose to rain.
10. Use only as described in this manual. Use only manufacturer's recommended attachments.
11. **ALWAYS WEAR SAFETY GLASSES.** Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

SAVE THESE INSTRUCTIONS

Rev (8/3/98)

APPENDAGE:

Rev (2/9/2006)

LIFT ENVIRONMENT:

All standard lifts are designed for indoor usage in a normal garage type environment. Any concerns in applications that expose the lift to additional environmental effects, such as paint booths, wash bays, outdoors, high or low temperatures, etc. must be addressed to our engineering department, where provisions may 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 that must be met.

Also, the foundation for which this lift must be installed on must comply to the minimum specifications as set forth in this manual. Any drainage slopes in the bay where the lift is to be installed must be directed away from the posts to prevent water accumulation at the post bases.

ACCESSORIES:

All accessories (i.e. Lifting Pads, Height Adapters, Wheel 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 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 (Mohawk Resources Ltd.) for information pertaining to certified attachments, accessories or configuration modifying components.

LOCK 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 the latches.

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/national electrical codes and any OSHA regulations.

PROPER SELECTION OF POWER SUPPLY CORD:

Acceptable Cord Types: SO, SEO,STO, SOW, SEOO, SOW-A

Cord Size: 12/4

Cord Ampacity: 20 Amps

Cord Wiring: Use Female NEMA Plug supplied with lift and wire as follows (See Diagram Below),

G: Ground (green)

W: Neutral (white)

X: 208 VAC Hot, 110 VAC to ground (Red)

Y: 208 VAC Hot, 110 VAC to ground (Black)

Face of Plug Represented:

HAVE A QUESTION?

**Call your local
Mohawk distributor
For parts, service and technical support.**

Distributor Place Card Here

Please have this unit's model and serial number when calling for service.

Model Number _____

Serial Number _____

OR CONTACT:

MOHAWK RESOURCES LTD.

65 Vrooman Ave.

P.O. Box 110

Amsterdam, NY 12010

Toll Free: 1-800-833-2006

Local: 1-518-842-1431

Fax: 1-518-842-1289

Internet: www.MOHAWKLIFTS.com

E-Mail: Service@MOHAWKLIFTS.com



The Automotive Lift Institute (ALI) is a trade association comprised of US and Canadian manufacturers and certain national distributors of automotive lifts. For almost 50 years, the ALI in cooperation with the American National Standards Institute (ANSI) has continued to sponsor the national standard ANSI/ALI ALCTV:2011 "Safety Requirements for Construction, Testing, and Validation for Automotive Lifts."

The new "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:2011.

For automotive lifts to be certified, manufacturers must execute an agreement with the ALI and ETL / Intertek Testing Services and must meet certain requirements:

- ◆ Must be structurally tested in accordance with the test requirements as outlined in ANSI/ALI ALCTV:2011.
- ◆ 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 Z34.1-1987 and the ALI/ETL Automotive Lift Certification Program Procedural Guide.
- ◆ All manufacturer-provided instructions, manuals, and operator safety documents, must meet the requirements of the ANSI/ALI ALCTV:2011 and ANSI/UL-201.

Lifts meeting these rigid requirements may be listed in the directory of certified lifts and be labeled with the "ALI/ETL certification mark" (Above on right), and, if applicable, the ETL listing mark to ANSI/UL-201.

Mohawk has been a long-standing member of ALI and most of Mohawk's popular models are currently listed and certified. Other Mohawk models are in various stages of testing. To obtain a complete and current certification listing, contact Mohawk Resources Ltd. or visit www.mohawklifts.com or www.ali-directory.org To obtain a copy of the current automotive lift standard, contact ALI or ANSI or visit www.autolift.org

Some people purchase quality products and others do not. You are assured of quality when you purchase a Mohawk product in compliance with the certification program.

MOHAWK WARRANTIES

EFFECTIVE DATE: 8/1/2013*

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, 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 COMMERCIAL 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, ETC. MOHAWK RESERVES THE RIGHT TO DECLINE RESPONSIBILITY WHEN REPAIRS HAVE BEEN MADE OR ATTEMPTED BY OTHERS. THIS WARRANTY DOES NOT COVER LABOR. 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 NAME AND SERIAL NUMBER OF THE EQUIPMENT MUST BE FURNISHED WITH ALL WARRANTY CLAIMS. THIS WARRANTY STATEMENT CONTAINS THE ENTIRE AGREEMENT BETWEEN MOHAWK RESOURCES LTD. AND THE PURCHASER UNLESS OTHERWISE SPECIFICALLY EXPRESSED IN WRITING. THIS NON-TRANSFERABLE WARRANTY APPLIES TO THE ORIGINAL PURCHASER ONLY. THIS WARRANTY IS APPLICABLE TO UNITS LOCATED ONLY IN THE UNITED STATES OF AMERICA AND CANADA. CONTACT MOHAWK RESOURCES LTD. FOR SPECIFIC WARRANTY PROVISIONS FOR UNITS LOCATED OUTSIDE OF THESE COUNTRIES.

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 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.

25-YEARS STRUCTURAL / 10 YEARS MECHANICAL: MODELS A-7, SYSTEM IA-10, LC-12, LC-12-3SA, LMF-12, TP-16, TP-18, TP-20, TP-26, TP-30. 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.

5-YEAR: MODELS TL-7.

3-YEAR: MODELS TR-19, TR-25, FL-25, TR-30, TR-33, TR-35, TR-50, TR-75, TR-110, TR-120, MP-SERIES, RP-SERIES LIFTS.

2-YEAR: MODELS PARALLELOGRAM 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, CONNECTED 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.

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.

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: A-7, SYSTEM IA-10, LC-12, LC-12-3SA, 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).

AFTER THE FIRST 5 YEARS FROM DATE OF SHIPMENT FROM FACTORY, THE "EXTENDED LIFETIME CYLINDER SEAL WARRANTY" (BELOW) IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: A-7, SYSTEM IA-10, LC-12, LC-12-3SA, LMF-12, TP-16, TP-18, TP-20, TP-26, TP-30. 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 RESOURCES, LTD. YOU ARE ENTITLED TO AN EXTENDED CYLINDER SEAL WARRANTY. TO QUALIFY FOR THIS WARRANTY, THE FOLLOWING CONDITIONS MUST BE MET:

ALL LIFTS MUST BE REGISTERED WITH MOHAWK RESOURCES, LTD., P.O. BOX 110, 65 VROOMAN AVENUE, AMSTERDAM, NY 12010, WITH THE ORIGINAL CUSTOMER NAME, ADDRESS AND PHONE NUMBER, WITHIN 30 DAYS OF INSTALLATION. (USE POSTAGE PAID WARRANTY REGISTRATION CARD ATTACHED TO THE FRONT OF THE MANUAL PROVIDED.)

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.

CUSTOM LIFTS AND OPTIONS:

ALL "CUSTOM" LIFTS AND/OR "CUSTOM" OPTIONS ARE GUARANTEED ON A CASE-BY-CASE BASIS. CONSULT MOHAWK FACTORY FOR DETAILS ON SPECIFIC CUSTOM LIFTS AND/OR OPTIONS.

WARRANTY EXCEPTIONS (ALL LIFTS):

ADJUSTMENTS: THIS WARRANTY DOES NOT COVER CASUAL AND ROUTINE ADJUSTMENTS SUCH AS, BUT NOT LIMITED TO: FITTINGS, 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 OR INSPECTED REGULARLY, OR USED IN AN ABUSIVE ENVIRONMENT OR BEYOND NORMAL SHOP USAGE, ETC., 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.

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

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ALL INFORMATION, ILLUSTRATIONS, AND SPECIFICATIONS IN THIS MANUAL ARE BASED ON THE LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF PRINTING. WE RESERVE THE RIGHT TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE.

APPENDAGES

RECOMMENDATIONS BY THE INDIVIDUAL USER OR USING ORGANIZATION FOR IMPROVING THIS PUBLICATION OR ANY ASPECT OF THE PRODUCT ARE ENCOURAGED AND SHOULD BE FORWARDED IN WRITING TO:

**MOHAWK RESOURCES LTD.
PRODUCT IMPROVEMENTS
65 VROOMAN AVE.
AMSTERDAM, NY, 12010**

THIS IS NOT A VEHICLE LIFTING PROCEDURE MANUAL AND NO ATTEMPT IS MADE OR IMPLIED HEREIN TO INSTRUCT THE USER IN LIFTING METHODS PARTICULARLY TO THE INDIVIDUAL APPLICATION OF THE EQUIPMENT DESCRIBED IN THIS MANUAL. RATHER, THE CONTENTS OF THIS MANUAL ARE INTENDED AS A BASE LINE FOR OPERATION, MAINTENANCE, TROUBLE SHOOTING, AND PARTS LISTING OF THE UNIT AS IT STANDS ALONE AND AS IT IS INTENDED AND ANTICIPATED TO BE USED IN CONJUNCTION WITH OTHER EQUIPMENT.

PROPER APPLICATION OF THE EQUIPMENT DESCRIBED HEREIN IS LIMITED TO THE PARAMETERS DETAILED IN THE SPECIFICATIONS AND THE USES SET FORTH IN THE DESCRIPTIVE PASSAGES. ANY OTHER PROPOSED APPLICATION OF THIS EQUIPMENT SHOULD BE DOCUMENTED AND SUBMITTED IN WRITING TO MOHAWK RESOURCES LTD. FOR EXAMINATION. THE USER ASSUMES FULL RESPONSIBILITY FOR ANY EQUIPMENT DAMAGE, PERSONAL INJURY, OR ALTERATION OF THE EQUIPMENT DESCRIBED IN THIS MANUAL OR ANY SUBSEQUENT DAMAGES.

DO NOT WELD, APPLY HEAT, OR MODIFY THIS EQUIPMENT IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM MOHAWK RESOURCES LTD. CERTAIN ALLOY OR HEAT-TREATED COMPONENTS MAY BE DISTORTED OR WEAKENED, RESULTING IN AN UNSAFE CONDITION.

MOHAWK RESOURCES LTD. IS NOT RESPONSIBLE FOR DISTORTIONS, WHICH RESULT FROM WELDING ON THIS EQUIPMENT AFTER MANUFACTURING IS COMPLETED. UNAUTHORIZED WELDING, APPLICATION OF HEAT, OR MODIFICATION OF THIS EQUIPMENT VOIDS ANY AND / OR ALL APPLICABLE WARRANTIES COVERING THIS EQUIPMENT.

ALL WARRANTIES APPLICABLE TO THIS EQUIPMENT ARE CONTINGENT ON STRICT ADHERENCE TO THE MAINTENANCE SCHEDULES AND PROCEDURES IN THIS MANUAL.

KEEP ALL SHIELDS AND GUARDS IN PLACE. INSURE ALL SAFETY MECHANISMS ARE OPERABLE. KEEP HANDS, FEET, AND CLOTHING AWAY FROM POWER-DRIVEN AND MOVING PARTS.

WARNING

- DO NOT INSTALL THIS UNIT IN A PIT OR DEPRESSION DUE TO FIRE OR EXPLOSION RISK

IMPORTANT NOTE

A LEVEL FLOOR IS SUGGESTED FOR A PROPER INSTALLATION SITE AND WILL ENSURE LEVEL LIFTING. SMALL DIFFERENCES IN FLOOR SLOPES MAY BE COMPENSATED FOR WITH SPECIAL LIFTING PADS. ANY MAJOR SLOPE CHANGES WILL AFFECT THE LOW PROFILE HEIGHT OF THE LIFTING PADS AND / OR THE UNITS LEVEL LIFTING PERFORMANCE. IF A FLOOR IS OF QUESTIONABLE SLOPE, CONSIDER A SURVEY OF THE SIGHT AND / OR THE POSSIBILITY OF POURING A NEW LEVEL CONCRETE SLAB SECTION. SIMPLY STATED, FOR OPTIMUM LEVEL LIFTING, THE EQUIPMENT, AT BEST, CAN LIFT ONLY AS

LEVEL AS THE FLOOR ON WHICH IT IS LOCATED... AND SHOULD NOT BE EXPECTED TO COMPENSATE FOR DRASTIC FLOOR SLOPE DIFFERENCES.

THIS EQUIPMENT MUST BE INSTALLED ON A LEVEL CONCRETE FLOOR WITH A MINIMUM THICKNESS OF **6-1/2 INCHES** THE CONCRETE MUST BE AGED AT LEAST (28) TWENTY EIGHT DAYS PRIOR TO INSTALLATION AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I.

DO NOT INSTALL THIS UNIT ON ANY ASPHALT SURFACE.

DO NOT INSTALL THIS UNIT ON ANY SURFACE OTHER THAN CONCRETE CONFORMING TO THE MINIMUM SPECIFICATIONS STATED IN THE **PRE-EXISTING FLOOR REQUIREMENTS SECTION.**

DO NOT INSTALL THIS UNIT ON EXPANSION SEAMS OR ON CRACKED, DEFECTIVE CONCRETE. CHECK WITH BUILDING ARCHITECT.

DO NOT INSTALL THIS UNIT ON A SECOND FLOOR OR ANY GROUND FLOOR WITH A BASEMENT BENEATH WITHOUT WRITTEN AUTHORIZATION FROM THE BUILDING ARCHITECT.

INSTALL THIS EQUIPMENT ON CONCRETE ONLY

IF, FOR ANY REASON, A NEW CONCRETE SLAB SECTION IS REQUIRED, THE MINIMUM THICKNESS, COMPRESSIVE STRENGTH, AND AGING ARE MANDATORY. FOR YOUR PROTECTION, CERTIFIED STRENGTH DOCUMENTATION SHOULD BE OBTAINED FROM THE FIRM WHO SUPPLIES THE CONCRETE MIXTURE AT THE TIME OF THE POUR. SPECIAL CONSIDERATION SHOULD BE MADE TO THE JOINING OF THE EXISTING FLOOR AND THE NEW SECTION BEING ADDED. CHECK WITH BUILDING ARCHITECT. THE SUGGESTED SIZE OF THE NEW CONCRETE SLAB SECTION IS SHOWN IN THE **NEW SLAB RECOMMENDATIONS SECTION.**

CAUTION

THE EQUIPMENT 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 TOUCH THE CONTROLS AT ANY TIME.

SAFE OPERATION OF THIS EQUIPMENT IS DEPENDENT ON USE, IN COMPLIANCE WITH THE OPERATION PROCEDURES OUTLINED IN THIS MANUAL ALONG WITH THE MAINTENANCE AND INSPECTION PROCEDURES WITH CONSIDERATION OF PREVAILING CONDITIONS.

THE EQUIPMENT DESCRIBED IN THIS MANUAL IS NEITHER DESIGNED NOR INTENDED FOR ANY APPLICATION ALONE OR IN CONJUNCTION WITH ANY OTHER EQUIPMENT THAT INVOLVES THE LIFTING OR MOVING OF **PERSONS.**

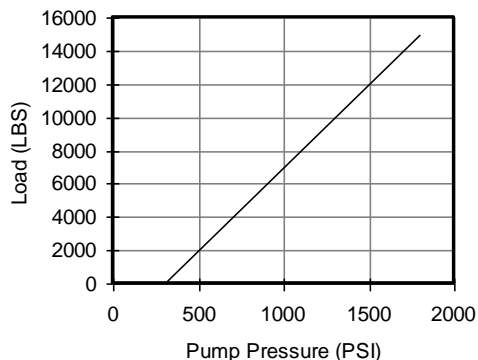
ALWAYS CONSULT THE VEHICLE LIFTING GUIDE FOR THE PROPER LIFTING POINTS ON ANY VEHICLE. THESE GUIDES ARE AVAILABLE FROM THE VEHICLE MANUFACTURERS. AFTER LIFTING THE VEHICLE TO THE DESIRED HEIGHT, ALWAYS LOWER THE UNIT ONTO THE MECHANICAL SAFETIES. THE FORMING OF GOOD OPERATIONAL WORK HABITS WILL ELIMINATE OVERSIGHTS IN THE USE OF PROVIDED SAFETY DEVICES.

LIFT SPECIFICATIONS**LMF-12/TP-15/TP-16/TP-18 SPECIFICATIONS**

LIFT TYPE / TWO POST	ELEC / HYDRAULIC
LIFTING CAPACITY – LMF-12	12,000 LBS.
LIFTING CAPACITY – TP-15	15,000 LBS.
LIFTING CAPACITY – TP-16	16,000 LBS.
LIFTING CAPACITY – TP-18	18,000 LBS.
PER ARM CAPACITY – LMF-12	3,000 LBS.
PER ARM CAPACITY – TP-15	3,750 LBS.
PER ARM CAPACITY – TP-16	4,000 LBS.
PER ARM CAPACITY – TP-18	4,500 LBS.
LIFTING SPEED (LOADED)	70-80 SECONDS APPROX
LOWERING SPEED (LOADED)	75 SECONDS APPROX
LIFTING HEIGHT (STROKE)	72 INCHES
OVERALL WIDTH	151-1/2 INCHES
WIDTH BETWEEN POST	120 INCHES
WIDTH BETWEEN LIFTING ARMS	102 – 7/8 INCHES
POST HEIGHT	104 INCHES
CYLINDER EXTENSION	162 INCHES
OVERHEAD HYDRAULIC LINES	180 INCHES
LIFTING PAD HEIGHT (MIN)	5 INCHES
LIFTING PAD HEIGHT (MAX)	87 INCHES
SHIPPING WEIGHT	3,100 LBS.

POWER UNIT SPECIFICATIONS

BRAND NAME	MONARCH
MODEL	M-4509-0191
POWER UNIT TYPE	VERTICAL
MOTOR VOLTAGE	208 / 230
F.L.A. AT RATED CAPACITY	22.5 / 20.4
MOTOR HORSEPOWER	4
MOTOR PHASE	SINGLE
MOTOR CYCLE / HERTZ	60
MOTOR SPEED (R.P.M.)	3450
PUMP FLOW (G.P.M.)	3.2 @ 3450 R.P.M.
RELIEF VALVE SETTING – LMF-12	1650 PSI
RELIEF VALVE SETTING – TP-15	2050 PSI
RELIEF VALVE SETTING – TP-16	2150 PSI
WORKING PRESSURE – LMF-12	1430 PSI
WORKING PRESSURE – TP-15	1800 PSI
WORKING PRESSURE – TP-16	1900 PSI
RESERVOIR CAPACITY	5 GALLONS
HYDRAULIC FLUID MEDIUM	DEXRON III

Performance Table**SUGGESTED SITE SELECTION / BAY SIZE**

WIDTH	DEPTH	HEIGHT
15 FEET	30 FEET	15 FEET

NOTE

THE PLACEMENT OF THE UNIT IS DETERMINED BY THE TYPE (LENGTH, WIDTH, HEIGHT) OF VEHICLE BEING SERVICED.

WEJ-IT ANCHOR SPECIFICATIONS

LENGTH	DRILL DEPTH	DRILL SIZE	DRILL SIZE MIN. MAX.	TORQUE
6 IN.	THRU	3/4 IN.	.775 IN. .787 IN.	SEE ANCHOR SPECS

PRE-EXISTING FLOOR REQUIREMENTS

MINIMUM THICKNESS	MINIMUM COMPRESSIVE STRENGTH	MINIMUM AGING
6 - 1/2 IN	4000 P.S.I.	28 DAYS

DO NOT INSTALL ANY MOHAWK LIFT ON ANY SURFACE OTHER THAN CONCRETE CONFORMING TO THE MINIMUM COMPRESSIVE STRENGTH, MINIMUM AGING, AND THE MINIMUM THICKNESS STATED ABOVE.

DO NOT INSTALL ANY MOHAWK LIFT ON EXPANSION SEAMS OR ON CRACKED, OR DEFECTIVE CONCRETE.

DO NOT INSTALL ANY MOHAWK LIFT ON SECONDARY FLOOR LEVELS OR ANY SURFACE WITH A BASEMENT BENEATH WITHOUT WRITTEN AUTHORIZATION FROM THE BUILDING ARCHITECT. NEVER HAND MIX YOUR OWN CONCRETE.

IF FOR ANY REASON A NEW CONCRETE SLAB SECTION IS REQUIRED, FOLLOW THE INSTRUCTIONS FOR THE FLOOR MODIFICATION DATA.

**FLOOR MODIFICATION DATA
NEW FLOOR SECTION**

THICKNESS	SLAB SIZE WIDTH X LENGTH	CUBIC YARDS
12 INCHES	72 INCHES x 168 INCHES	2.1

IF, FOR ANY REASON, A NEW CONCRETE SLAB SECTION IS REQUIRED, MINIMUM THICKNESS, COMPRESSIVE STRENGTH, AND PROPER AGING IS MANDATORY.

THE NEW SLAB SECTION MUST BE TOTALLY SURROUNDED BY AN EXISTING CONCRETE FLOOR THAT IS STRUCTURALLY SOUND. CERTIFIED STRENGTH DOCUMENTATION SHOULD BE OBTAINED FROM THE FIRM WHO SUPPLIES THE CONCRETE MIXTURE AT THE TIME OF THE POUR.

NEVER HAND MIX THE CONCRETE. **REFER TO NEW SLAB RECOMMENDATIONS SECTION.**

LMF-12/TP-15/TP-16/TP-18 WITH AIRLOCKS PACKING LIST***** ALSO SEE DRAWINGS MAN511, MAN512, & MAN513 IN PARTS MANUAL *****

ORDER NUMBER	PART NUMBER	PART DESCRIPTION	QTY.
	015-000-014	PARTS BOX #1 CONTENTS	1
623	007-007-075	SHIM BAG	1
040	012-012-047	LIFTING PAD	4
627	012-012-058	SMALL PARTS BAG	1
145	012-012-113	SWING ARM PIN	4
	600-670-003	WEJ-IT ANCHOR (3/4 X 6")	16
482	600-690-008	LOCK NUT, 1-3/8-12 NF	8
460	601-170-008	HUBBLE CONNECTOR (FEMALE)	1
	016-000-019	MANUAL, LMF-12/TP-15/TP-16 (I/O/M)	1
627	012-012-058	SMALL PARTS BAG CONTENTS	
171	600-640-019	BOLT, 1/4-20 X 1-1/2	10
258	600-690-005	LOCK NUT, 1/4-20 NC	10
259	600-710-004	WASHER, 1/4 SAE FLAT	4
021	601-310-005	BREATHING CAP	1
094	601-420-011	FITTING, DOUBLE MALE UNION # 6 JIC	4
409	601-710-001	DOUBLE LINE CLIP	6
	600-710-006	WASHER, FLAT, FENDER, 5/16 ID X 1 1/2 OD	6
623	007-007-075	SHIM BAG CONTENTS	
633	600-740-001	SHIM, 1/16 (BLUE)	8
634	600-740-002	SHIM, 1/8 (RED)	8
635	600-740-003	SHIM, 1/4 (BLACK)	8
	012-012-057	PARTS BOX #2 CONTENTS	
057	012-012-151	HEIGHT ADAPTER (7 1/2 INCH)	4
047	018-000-105	HEIGHT ADAPTER (10 INCH)	4
046	018-000-106	HEIGHT ADAPTER (5 INCH)	4
		OPTIONAL ITEMS INCLUDED in Place of 5" / 7 1/2" /10" Adapters and Lift Pads IF 3-Stage Arms Supplied with Unit (LC-12-3SA)	
045	025-002-128	HEIGHT ADAPTER (6 INCH)	4
044	025-002-127	HEIGHT ADAPTER (3 INCH)	4
035	025-002-035	LIFTING PAD	4

RECOMMENDED TOOL LIST

SIZE / QTY	DESCRIPTION	USED IN
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	BACKBOARD
7/16 IN	WRENCH & SOCKET	LINE CLIPS
1	RATCHET WRENCH	AS NEEDED
1	SNAP RING PLIERS	AS NEEDED
2IN	WRENCH & SOCKET	SWING ARM PINS
1	VICE GRIPS	AS NEEDED
2 1/4 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
1	DRILL BIT (3/4 INCH)	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

BEFORE INSTALLING A LIFT

IMPORTANT

BEFORE INSTALLING A MOHAWK LIFT THERE ARE A FEW ITEMS THAT MUST BE INSPECTED. EACH REPAIR SHOP BAY IS DIFFERENT. IN AN ATTEMPT TO PREVENT OVERSIGHTS, ALL OF THE FOLLOWING INFORMATION IS TO BE VERIFIED.

OVERHEAD OBSTRUCTIONS

THE AREA WHERE THE LIFT WILL BE LOCATED SHALL BE FREE OF OBSTRUCTIONS. HEATERS, BUILDING SUPPORTS, ELECTRICAL CONDUIT; ALL OF THESE ITEMS ARE TO BE TWELVE FEET ABOVE THE BAY FLOOR. **SEE FIGURE 1 & 8.**

DEFECTIVE CONCRETE

VISUALLY INSPECT THE BAY FLOOR AREA. THE UNIT CANNOT BE INSTALLED ON EXPANSION SEAMS, OR CONCRETE THAT IS CRACKED. THE UNIT IS ONLY AS STRONG AS THE FLOOR IT IS INSTALLED ON.

FLOOR REQUIREMENTS

THIS INFORMATION IS IN THE GENERAL FLOOR REQUIREMENTS. IF THE BAY FLOOR DOES NOT CONFORM TO THESE SPECIFICATIONS, REFER TO THE "NEW SLAB RECOMMENDATIONS" SECTION IN THIS MANUAL.

LOCATE THE MAIN SIDE POST ON THE HIGH SIDE OF THE FLOOR IF A SLOPE IS NOTED. **REFER TO FIGURE 9.**

POWER SUPPLY

THE STANDARD POWER UNIT IS 220-VOLT SINGLE PHASE. REFER TO THE POWER UNIT SPECIFICATIONS SECTION. REQUIREMENTS MAY VARY ON SPECIAL ORDERS.

THE MAIN SIDE POST WILL REQUIRE THE POWER SUPPLY FOR THE UNIT. NOTE THE LOCATION OF THE POWER SUPPLY.

AIR SUPPLY

THIS LIFT INCORPORATES AIR LOCK RELEASE. A CLEAN DRY AIR SUPPLY OF AT LEAST 60 PSI WILL BE NEEDED. THIS SUPPLY IS TO BE CONNECTED TO THE REGULATOR SUPPLIED, LOCATED NEXT TO THE HYDRAULIC POWER UNIT.

BAY SIZE

TO OPTIMIZE SHOP SPACE, IT IS ADVISED TO LOCATE A VEHICLE IN THE BAY PRIOR TO LAYOUT. NOTE WALKWAY'S OVERHEAD OBSTRUCTIONS, AND ABILITY TO MOVE EQUIPMENT IN THE BAY AREA. **REFER TO FIGURE 1 & 8.**

REQUIREMENTS MAY VARY ON SPECIAL ORDERS.

SPECIFICATIONS

REFERENCE ALL SPECIFICATIONS PRIOR TO INSTALLING A LIFT.

WARNING

BEFORE DRILLING THE MOUNTING HOLES

- ALL ANCHORS MUST BE A MINIMUM OF 6 INCHES AWAY FROM ANY EXPANSION SEAMS, CONTROL JOINTS, OR OTHER INCONSISTENCIES IN THE CONCRETE. REFER TO ANCHOR MANUFACTURER SPECIFICATIONS FOR SPECIFIC INFORMATION CONCERNING EDGE DISTANCES AND BOLT TO BOLT DISTANCE REQUIREMENTS. **REFER TO FIGURES 3 & 4.**
- REFERENCE ALL FIGURES PERTAINING TO DRILLING, WEJ-IT WARNINGS, AND INSTALLATION INSTRUCTIONS. **REFER TO FIGURES 3 & 4.**
- CHECK THE INSIDE DIMENSIONS OF THE POST AT THE BOTTOM FROM THE FACE OF THE MAIN SIDE POST TO THE FACE OF THE OFF SIDE POST. THE INSIDE DIMENSION IS 120 INCHES.
- USE A SHARP DRILL BIT TO PREVENT DRILLING AN UNDERSIZED HOLE. DRILL THE HOLE EQUAL TO THE LENGTH OF THE WEJ-IT ANCHOR. BLOW OUT THE HOLE WITH SHOP AIR, OR VACUUM. INSERT THE WEJ-IT ANCHOR SO THAT THE WASHER RESTS AGAINST THE POST FOOTING.
- NEVER USE AN IMPACT TOOL TO TIGHTEN THE WEJ-IT ANCHORS. USE A TORQUE WRENCH ONLY.
- MAKE SURE THE CONCRETE IS SOLID WHEN DRILLING. CRACKS AND EXPANSION SEAMS REDUCE THE EFFECTIVENESS OF THE WEJ-IT ANCHOR. NEVER INSTALL THE ANCHOR UNDER THESE CONDITIONS.
- DRILL EIGHT 3/4-INCH HOLES ALONG THE OUTSIDE OF THE MAIN SIDE POST USING THE HOLES AT THE BASE OF THE POST AS A GUIDE. INSERT AND TIGHTEN WEJ-IT ANCHORS PER SPECS LOCATED IN THE BACK OF THIS MANUAL.
- INSURE THE INSIDE DIMENSIONS BETWEEN THE MAIN AND OFF SIDE POST IS STILL CORRECT. 120 INCHES.
- DRILL EIGHT 3/4-INCH HOLES ALONG THE OUTSIDE OF THE OFF SIDE POST USING THE HOLES AT THE BASE OF THE POST AS A GUIDE. INSERT AND TIGHTEN THE WEJ-IT ANCHORS PER SPECS LOCATED IN THE BACK OF THIS MANUAL.

INSTALLATION INSTRUCTIONS

IMPORTANT

READ THIS MANUAL IN ITS ENTIRETY. BE FAMILIAR WITH PART NAMES AND HAVE A GOOD UNDERSTANDING OF HOW THIS UNIT IS TO BE ASSEMBLED AND OF HOW INDIVIDUAL PARTS OPERATE, BEFORE ASSEMBLING THE UNIT.

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

USING A CHALK LINE, LAYOUT THE FLOOR DIMENSIONS WHERE THE UNIT WILL BE LOCATED. **REFER TO FIGURES 1 & 8.**

CUT THE SWING ARM BANDING AND REMOVE THE SWING ARMS.

SECURE THE OVERHEAD LIFTING DEVICE TO THE MAIN SIDE POST USING STRAPS OR CHAINS.

WARNING

- EACH POST WEIGHS OVER 900 LBS. ERECT THE POSTS WITH CHAINS AND STRAPS ATTACHED TO THE TOP OF THE POST. DO NOT REMOVE THE CHAINS AND STRAPS UNTIL THE POST HAS BEEN SECURED.

SEPARATE THE POSTS. REMOVE THE PARTS BOX, HYDRAULIC LINES AND SUPPORTS. VERIFY PARTS BOX CONTENTS. IF MISSING PARTS ARE NOTED, THEY CAN BE OBTAINED BY CALLING 1-800-833-2006 OR BY CONTACTING YOUR LOCAL MOHAWK DISTRIBUTOR.

USING THE 5/8-INCH PACKING BOLTS, NUTS AND WASHERS, ASSEMBLE THE CARRIAGE STOPS TO THE TOP OF THE MAIN SIDE POST. TIGHTEN TO 150 FOOT POUNDS. **REFER TO FIGURE 2.**

ERECT THE MAIN AND OFF SIDE POSTS TO THE UP-RIGHT POSITION. ALIGN THE POST FOOTINGS TO THE CHALK LINE LAYOUTS.

SECURE THE MAIN AND OFF SIDE POSTS TO THE BAY FLOOR USING THE (16) 3/4 X 5 1/2 INCH WEJ-IT ANCHORS. REFER TO "BEFORE DRILLING THE MOUNTING HOLES" SECTION.

USING THE 5/8-INCH PACKING BOLTS, NUTS AND WASHERS, ASSEMBLE THE CARRIAGE STOPS TO THE TOP OF THE OFF SIDE POST. TIGHTEN TO 150 FOOT POUNDS. **REFER TO FIGURE 2.**

ASSEMBLE THE TWO OVERHEAD HYDRAULIC LINES (FLAT ON THE FLOOR) USING THE FOUR DOUBLE MALE UNIONS. **SEE MAN501.**

ASSEMBLE TWO OF THE DOUBLE LINE CLIPS TO THE CENTER SPAN OF THE OVERHEAD LINES APPROXIMATELY 3 INCHES FROM THE DOUBLE UNIONS.

ASSEMBLE THE TWO OVERHEAD LINE SUPPORT BRACKETS TO THE TOP OF THE MAIN AND OFF SIDE POST.

ERECT THE OVERHEAD HYDRAULIC LINE ASSEMBLIES AND AIR HOSE. ROUTE THE LINES THROUGH THE TOP OF EACH POST. ASSEMBLE THE LINES TO THE HYDRAULIC CONNECTIONS AT THE TOP OF EACH POST.

SECURE THE LINES TO THE OVERHEAD LINE SUPPORTS USING THE DOUBLE LINE CLIPS PROVIDED.

REMOVE THE BREATHER PORT PLUG ON THE POWER UNITS RESERVOIR AND DISCARD. **REFER TO FIGURE 11.**

VERIFY FLUID LEVEL. (1/2 IN. BELOW BREATHER PORT IN THE POWER UNIT RESERVOIR WHEN BOTH CYLINDERS ARE FULLY RETRACTED) INSTALL THE BREATHER CAP.

AT THIS TIME HAVE A QUALIFIED ELECTRICIAN CONNECT THE POWER SUPPLY TO THE UNIT

CONNECT AN AIR SUPPLY TO THE REGULATOR NEAR THE POWER UNIT. ADJUST THE REGULATOR TO 60-80 PSI. PRESS THE LOCK RELEASE BUTTON AT THE AIR REGULATOR AND ENSURE THAT LOCKS RELEASE AND THAT THERE ARE NO LEAKS IN THE AIR SYSTEM.

ENGAGE THE UP BUTTON ON THE POWER UNIT AND RAISE THE CARRIAGES APPROX. 3 FEET, OR TO A HEIGHT SUITABLE FOR INSTALLING THE SWING ARMS.

REMOVE & REASSEMBLE THE FOUR SWING ARM RESTRAINTS ONTO THE MAIN AND OFF SIDE CARRIAGES. **REFER TO MAN502.**

LIFTING UP ON THE SWING ARM RESTRAINT. INSERT THE FOUR SWING ARMS INTO THE CARRIAGES. **REFER TO MAN506.**

ALIGN THE THROUGH HOLES IN THE CARRIAGES WITH THE THROUGH HOLES IN THE SWING ARMS. SECURE THE SWING ARMS TO THE CARRIAGES USING THE FOUR SWING ARM PINS AND EIGHT NYLON LOCK NUTS.

PLACE THE FOUR LIFTING PADS INTO PLACE IN THE MOUNTING HOLE AT THE END OF EACH SLIDER. **REFER TO MAN506.**

INSTALLATION INSTRUCTIONS, CONT.

BLEEDING PROCEDURE

ENGAGE THE UP BUTTON ON THE POWER UNIT. OBSERVE THE CARRIAGE. WHEN THE MAIN AND OFF SIDE CARRIAGES HAVE REACHED FULL HEIGHT, CONTINUE TO RUN THE UNIT FOR 10 SECONDS.

RELEASE THE UP BUTTON AND WAIT ONE MINUTE, THEN HOLD THE UP BUTTON AGAIN FOR 10 SECONDS. REPEAT THIS PROCEDURE THREE TIMES (THIS WILL PURGE THE AIR FROM THE HYDRAULIC SYSTEM)

NOTE

- LISTEN FOR THE PRESSURE RELIEF VALVE. A NOTICEABLE INCREASE IN POWER UNIT VOLUME THIS MAY INDICATE THAT THE NUTS ON THE LIFTING RODS NEED TO BE ADJUSTED. ADJUST THE NUTS EVENLY ON BOTH SIDES OF THE CARRIAGE TO ALLOW THE CYLINDERS TO FULLY STROKE AT THE TOP.

PLACE THE FOUR 5 INCH., 7 ½ INCH AND 10 INCH HEIGHT ADAPTERS INTO PLACE INTO THE HEIGHT ADAPTER BRACKETS. **REFER TO MAN505.**

SHIMMING THE POST

LEVEL THE POST BY INSERTING THE SUPPLIED SHIMS UNDER THE POST FOOTING AROUND THE WEJ-IT ANCHOR. THE LIFT MUST BE LEVEL BOTH FRONT TO REAR AND SIDE TO SIDE. A LEVELING DEVICE AND A MEASURING TAPE MUST BE USED. **REFER TO FIGURES 5 & 6.**

- LEVEL THE MAIN SIDE POST FRONT TO REAR AND SIDE-TO-SIDE USING A BUBBLE LEVEL.
- LEVEL THE OFF SIDE POST FRONT TO REAR USING A BUBBLE LEVEL. SET THE POST PARALLEL TO THE MAIN SIDE POST USING A MEASURING TAPE, MEASURING FROM THE EDGE OF THE MAIN SIDE CHANNEL TO THE EDGE OF THE OFF SIDE CHANNEL AT THE BASE AND AT THE TOP OF THE POST.
- THE MEASUREMENT AT THE TOP OF THE POST MUST BE THE SAME AS THE MEASUREMENT AT THE BASE OF THE POST.

AT THIS TIME PERFORM THE PRE-OPERATION CHECK LIST AND MAINTENANCE PROCEDURES (DAILY - WEEKLY - MONTHLY) MAKE ALL ADJUSTMENTS PERTAINING TO THESE PROCEDURES.

DIVERTER VALVE OPERATION

WARNING

AS WITH ALL FUNCTIONS OF THE LIFT UNIT, NEVER OPERATE THE DIVERTER VALVE UNLESS YOU HAVE FIRST PERFORMED THIS OPERATION WITH NO VEHICLE, AND FULLY UNDERSTAND ITS FUNCTIONS.

BOTH MECHANICAL SAFETIES MUST BE ENGAGED BEFORE OPERATING THE DIVERTER VALVE.

PURPOSE

- THE PURPOSE OF THE DIVERTER VALVE IS TO ENABLE THE OPERATOR TO RAISE OR LOWER THE OFF SIDE CARRIAGE INDEPENDENTLY OF THE MAIN SIDE CARRIAGE.

TO OPERATE THE DIVERTER VALVE

ENGAGE THE DIVERTER VALVE BY PULLING DOWN ON THE DIVERTER VALVE PULL KNOB. **REFER TO MAN504**

- THIS WILL DIVERT ALL FUNCTIONS OF THE POWER UNIT TO THE OFF SIDE CYLINDER.

WITH THE VALVE ENGAGED, ENERGIZE THE POWER UNIT BY PUSHING THE UP BUTTON.

WHEN THE DESIRED HEIGHT HAS BEEN ACHIEVED, RELEASE THE DIVERTER VALVE PULL KNOB AND THE UP BUTTON.

PULLING DOWN ON THE LOWERING HANDLE, LOWER THE UNIT ONTO BOTH MECHANICAL SAFETIES ENDING THIS PROCEDURE.

SAFETY TIPS

PLEASE POST THE **AUTOMOTIVE LIFT SAFETY TIPS CARD**, (A COPY IS INCLUDED IN THE PARTS BOX) WHERE THEY WILL BE CONSTANTLY REMINDED TO YOUR LIFT OPERATOR. FOR INFORMATION SPECIFIC TO THE LIFT, ALWAYS REFER TO THE MOHAWK MANUAL.

- | | |
|--|--|
| <ul style="list-style-type: none"> • INSPECT YOUR LIFT DAILY. NEVER OPERATE IT IF IT MALFUNCTIONS OR IF IT HAS BROKEN OR DAMAGED PARTS. REPAIRS SHOULD BE MADE WITH ORIGINAL MOHAWK PARTS. • OPERATING CONTROLS ARE DESIGNED TO CLOSE WHEN RELEASED. DO NOT BLOCK OPEN OR OVERRIDE THEM. • NEVER OVERLOAD YOUR LIFT BEYOND STATED LIFTING CAPACITY. RATED CAPACITY IS SHOWN ON NAMEPLATE AFFIXED TO THE LIFT. • ONLY TRAINED AND AUTHORIZED PERSONNEL SHOULD DO POSITIONING OF VEHICLE AND OPERATION OF THE LIFT. • DO NOT ALLOW CUSTOMERS OR BY- STANDERS TO OPERATE THE LIFT OR TO BE IN A LIFTING AREA DURING ITS OPERATION. ONLY PROPERLY TRAINED PERSONNEL SHOULD BE ALLOWED TO OPERATE LIFT. • NEVER RAISE A VEHICLE WITH PERSONS INSIDE. • ALWAYS KEEP LIFT AREA FREE OF OBSTRUCTIONS, DEBRIS, GREASE, AND OIL. • PERFORM THE PRE-OPERATION CHECK LIST, PER INSTRUCTIONS, BEFORE RAISING VEHICLE TO DESIRED HEIGHT. • BEFORE DRIVING VEHICLE INTO THE BAY, POSITION ARMS AND SUPPORTS TO PROVIDE | <p>UNOBSTRUCTED CLEARANCE. DO NOT HIT OR RUN OVER LIFT ARMS, ADAPTERS, OR AXLE SUPPORTS. THIS COULD DAMAGE LIFT OR VEHICLE.</p> <ul style="list-style-type: none"> • LOAD VEHICLE ON LIFT CAREFULLY. POSITION LIFT SUPPORTS TO CONTACT AT THE VEHICLE MANUFACTURER'S RECOMMENDED LIFTING POINTS. RAISE LIFT UNTIL SUPPORTS CONTACT VEHICLE. CHECK SUPPORTS FOR SECURE CONTACT WITH VEHICLE. RAISE LIFT TO DESIRED WORKING HEIGHT. CAUTION: IF YOU ARE WORKING UNDER VEHICLE, LIFT SHOULD BE RAISED HIGH ENOUGH FOR LOCKING DEVICE TO BE ENGAGED. • NOTE THAT WITH SOME VEHICLES, THE REMOVAL OR INSTALLATION OF COMPONENTS MAY CAUSE A CRITICAL SHIFT IN THE CENTER OF GRAVITY, AND RESULT IN RAISED VEHICLE INSTABILITY. REFER TO THE VEHICLE MANUFACTURER'S SERVICE MANUAL FOR RECOMMENDED PROCEDURES WHEN VEHICLE COMPONENTS ARE REMOVED. • BEFORE LOWERING LIFT, BE SURE TOOL TRAY'S, STANDS, ETC. ARE REMOVED FROM UNDER VEHICLE. RELEASE LOCKING DEVICES BEFORE ATTEMPTING TO LOWER LIFT. • BEFORE REMOVING VEHICLE FROM THE LIFT AREA, POSITION LIFT ARMS AND SUPPORTS TO PROVIDE AN UNOBSTRUCTED EXIT. |
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LIFT FINAL CHECKOUT (AFTER INSTALLATION):

REV (6/28/2012)

THIS PROCEDURE OUTLINES THE FINAL CHECKS TO MAKE AFTER INITIAL INSTALLATION OF THE LIFT UNIT. REPEAT THIS PROCEDURE IF THE LIFT IS RELOCATED.

AFTER THE LIFT IS FULLY ASSEMBLED, RAISE THE LIFT EMPTY A FEW TIMES TO VERIFY:

- PROPER SYNCHRONIZATION OF LIFT ARMS
- UNIT IS RAISING SMOOTHLY (AIR IS BLEED FROM HYDRAULIC SYSTEM - SEE BLEEDING PROCEDURE FOR MORE DETAILS)
- NO LEAKS PRESENT AT ANY FITTING JUNCTIONS
- LOCKS ARE ENGAGING ON BOTH POSTS AS LIFT IS RAISING
- LOCKS ARE DIS-ENGAGING ON BOTH POSTS WHEN RELEASE CABLE PULLED (SEE J-BAR ADJUSTMENT PROCEDURE)
- LOCKS ARE RE-ENGAGING AFTER DIS-ENGAGED WHEN LIFT IS RAISED
- LIFT IS NOT DRIFTING DOWN WHEN RAISED (RAISE LIFT, THEN STOP, AND VERIFY DRIFT DOWN OF CYLINDERS)
- NO VIBRATIONS FROM LOOSE CLAMPING, ETC.
- SWING ARMS ROTATE SMOOTHLY WHEN LIFT FULLY LOWERED AND LOCK IN PLACE WHEN LIFT RAISED

ONCE THIS IS COMPLETE, LOCATE A REPRESENTATIVE VEHICLE INTO THE LIFTING AREA. USE A VEHICLE THAT WEIGHS AT LEAST 75 PERCENT OF THE CAPACITY OF THE LIFT. OBSERVING LIFTING PROCEDURES CONTAINED IN THIS MANUAL TO LOCATE VEHICLE IN LIFTING AREA, AND TO LOCATE LIFTING PADS AT LIFTING POINTS FOR VEHICLE, AND WHILE RAISING AND LOWERING.

RAISE LIFT APPROXIMATELY 1 FOOT. VERIFY THE FOLLOWING:

- PROPER SYNCHRONIZATION OF LIFT ARMS
- NO LOOSENING OF REAR ANCHOR BOLTS IN BASE PLATES AT FLOOR (LOOK FOR GAP BETWEEN FLOOR AND BASES)
- UNIT IS RAISING SMOOTHLY (AIR IS BLEED FROM HYDRAULIC SYSTEM - SEE BLEEDING PROCEDURE FOR MORE DETAILS)
- NO LEAKS PRESENT AT ANY FITTING JUNCTIONS
- LOCKS ARE ENGAGING ON BOTH POSTS AS LIFT IS RAISING
- LIFT IS NOT DRIFTING DOWN WHEN RAISED (RAISE LIFT, THEN STOP, AND VERIFY DRIFT DOWN OF CYLINDERS)
- NO VIBRATIONS FROM LOOSE CLAMPING, ETC.

RELEASE LOCKS AND LOWER UNIT. VERIFY THE FOLLOWING:

- PROPER SYNCHRONIZATION OF LIFT ARMS
- UNIT IS LOWERING SMOOTHLY (AIR IS BLEED FROM HYDRAULIC SYSTEM - SEE BLEEDING PROCEDURE FOR MORE DETAILS)
- NO LEAKS PRESENT AT ANY FITTING JUNCTIONS
- NO VIBRATIONS FROM LOOSE CLAMPING, ETC.
- LOCKS ARE NOT RE-ENGAGING WHILE LOWERING

RAISE LIFT TO FULL STROKE. VERIFY THE FOLLOWING:

- PROPER SYNCHRONIZATION OF LIFT ARMS
- NO EXCESSIVE DEFLECTION OF POSTS OR ARMS
- NO LOOSENING OF REAR ANCHOR BOLTS IN BASE PLATES AT FLOOR (LOOK FOR GAP BETWEEN FLOOR AND BASES)
- UNIT IS RAISING SMOOTHLY (AIR IS BLEED FROM HYDRAULIC SYSTEM - SEE BLEEDING PROCEDURE FOR MORE DETAILS)
- NO LEAKS PRESENT AT ANY FITTING JUNCTIONS
- LOCKS ARE ENGAGING ON BOTH POSTS AS LIFT IS RAISING
- LIFT IS NOT DRIFTING DOWN WHEN RAISED (RAISE LIFT, THEN STOP, AND VERIFY DRIFT DOWN OF CYLINDERS)
- NO VIBRATIONS FROM LOOSE CLAMPING, ETC.

LOWER LIFT ONTO LOCKS. VERIFY THE FOLLOWING:

- LOCK IS ENGAGING UPON DESCENT
- PROPER SYNCHRONIZATION OF LIFT ARMS

RAISE, THEN RELEASE LOCKS, THEN LOWER VEHICLE TO FLOOR. VERIFY THE FOLLOWING:

- PROPER SYNCHRONIZATION OF LIFT ARMS
- UNIT IS RAISING & LOWERING SMOOTHLY (AIR IS BLEED FROM HYDRAULIC SYSTEM - SEE BLEEDING PROCEDURE FOR MORE DETAILS)
- NO LEAKS PRESENT AT ANY FITTING JUNCTIONS
- NO VIBRATIONS FROM LOOSE CLAMPING, ETC.
- LOCKS ARE NOT RE-ENGAGING WHILE LOWERING
- NO LOOSENING OF REAR ANCHOR BOLTS IN BASE PLATES AT FLOOR (LOOK FOR GAP BETWEEN FLOOR AND BASES)

ENSURE THAT ALL MANUALS AND OTHER INSTRUCTIONAL MATERIALS ARE DELIVERED TO OWNER/USER/EMPLOYER. ENSURE THAT USERS ARE INSTRUCTED IN THE SAFE AND PROPER USER OF THE LIFT.

FINAL CHECKOUT OF LIFT IS COMPLETE.

2-POST LIMITATIONS AND ADAPTER**USAGE:**
REV (2/9/2006)**2-POST LIMITATIONS:**

ALL MOHAWK 2-POST LIFTS ARE FOR INDOOR USE UNLESS SPECIFICALLY QUALIFIED AND MODIFIED FOR A CUSTOM ENVIRONMENT.

ALL MOHAWK 2-POST LIFTS MUST ACCOMPLISH THREE MAIN CRITERIA IN ORDER TO LIFT A VEHICLE SAFELY:

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 WHEEL BASE 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.

FOR A-7, A-7A, SYSTEM IA, SYSTEM IA-10, TOMAHAWK-9000: THESE LIFTS COME STANDARD WITH (4) 3" AND (4) 6" HEIGHT ADAPTERS. THESE LIFTS ARE ONLY ALLOWED TO USE 2 ADAPTERS WHEN STACKED: ONE (1) 6" AND ONE (1) 3" ADAPTER, RESULTING IN 9" MAXIMUM STACKING HEIGHT. LONGER CUSTOM SINGLE PIECE ADAPTERS ARE AVAILABLE UPON REQUEST.

FOR LMF-12, TP-15, TP-16, TP-18, TP-20, TP-26, TP-30: THESE LIFTS COME STANDARD WITH (4) 5", (4) 7 $\frac{1}{2}$ ", AND (4) 10" HEIGHT ADAPTERS. THESE LIFTS ARE ONLY ALLOWED TO USE 2 ADAPTERS WHEN STACKED: ONE (1) 10" AND ONE (1) 7 $\frac{1}{2}$ " ADAPTER, RESULTING IN 17 $\frac{1}{2}$ " MAXIMUM STACKING HEIGHT. LONGER CUSTOM SINGLE PIECE ADAPTERS ARE AVAILABLE UPON REQUEST.

THE USER SHOULD BE WARNED THAT ANY SITUATION PRODUCING AN OFF-VERTICAL SLANTING OF THE HEIGHT ADAPTERS, SUCH AS DEFLECTION OF THE ARM DUE TO HEAVY LOAD, DEFLECTION OF THE ARM DUE TO SLOP, ECCENTRIC CORNER LOADING OF THE LIFT PAD, ETC. MUST BE AVOIDED. CUPPED OR YOKE STYLE LIFTING PADS (WHICH DO NOT RELY ON FRICTION) ARE ALSO AVAILABLE FOR SITUATIONS INVOLVING LIFTING NON-FLAT SURFACES. CONSULT MOHAWK SERVICE DEPARTMENT FOR CUSTOM PAD REQUESTS FOR YOUR APPLICATION.

PRE - OPERATION CHECK LIST**TRAINED OPERATOR**

- THE OPERATOR MUST BE FULLY TRAINED AND QUALIFIED TO SAFELY AND EFFECTIVELY OPERATE THIS EQUIPMENT OF THIS SPECIFIC MAKE AND MODEL.

ABSENCE OF OBSTRUCTIONS

- THE TOTAL WORK AREA MUST BE FREE OF ANY AND ALL OBSTRUCTIONS AND BE GENERALLY CLEAN. (FREE OF OIL AND DEBRIS)

VISUAL INSPECTION

- THOROUGHLY INSPECT THE UNIT WITH A TRAINED EYE, NOTING ANY PROBLEM AREAS. INSPECT THE FLOOR AND THE ANCHORING FASTENERS AS WELL. REPORT ANY QUESTIONABLE ITEMS.
- THOROUGHLY INSPECT ALL LIFTING PADS AND HEIGHT ADAPTERS FOR ANY WEAR, RUST, DEBRIS, OR DEFORMITIES. IF NEEDED, THOROUGHLY CLEAN AND OIL WITH LIGHT OIL OR LUBRICANT, SUCH AS WE-40. ENSURE NO OIL OR GREASE IS PRESENT ON TOP SURFACES OF PADS, WHERE PADS CONTACT VEHICLE PICK POINTS.

NO LOAD PERFORMANCE CHECK

- ALL MECHANICAL SAFETIES OPERATE PROPERLY AND CONSISTENTLY.
- NO EXTERNAL FLUID LEAKS.
- NO BLEED DOWN.
- EFFORTLESS AND SIMULTANEOUS MOVEMENT.
- LEVEL LIFTING.
- CONTROLS FUNCTION PROPERLY.
- ALL SAFETY MECHANISMS FULLY FUNCTIONAL.

PREVIOUS DAY'S OPERATION REPORT

- VERIFY WITH SUPERVISOR THAT THERE WAS NO PROBLEMS EXPERIENCED THE PREVIOUS DAY. IF THERE WERE ANY PROBLEMS, VERIFY THAT ALL NECESSARY REPAIRS HAVE BEEN COMPLETED.

LIFTING PROCEDURES**LIFT PREPARATION AND VEHICLE POSITIONING**

- PERFORM PRE-OPERATION CHECK LIST ITEM BY ITEM.
- POSITION THE SWING ARM TO THE OUTSIDE OF THE UNIT.
- POSITION THE VEHICLE CENTERED BETWEEN THE POSTS

NOTE:

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 VEHICLE IS ACHIEVED WHEN ALL 4 CAM FOLLOWER BEARINGS ARE FREE TO SPIN.

- PLACE THE LIFTING PADS PER MFG'S RECOMMENDED LIFT POINTS FOR THE VEHICLE. REFER TO ALI/LP-GUIDE, ALI/SM01-2 "LIFTING IT RIGHT" GUIDE, AND REFER TO THE RECOMMENDED LOCATION AND FORMAT OF THE VEHICLE LIFT POINT LABEL PER ANSI/SAE J2184-OCT92.
- PLACE THE LIFTING PADS PER MFG'S RECOMMENDED LIFT POINTS FOR THE VEHICLE. REFER TO ALI/LP-GUIDE, ALI/SM01-2 "LIFTING IT RIGHT" GUIDE, AND REFER TO THE RECOMMENDED LOCATION AND FORMAT OF THE VEHICLE LIFT POINT LABEL PER ANSI/SAE J2184-OCT92.
- FRAME RAILS/PICK POINTS ARE TO BE CENTERED ON LIFTING PADS AND REST FLAT ON LIFTING PAD SURFACES (SEE FIGURE 13)
- LIFT PAD IS TO BE FULLY INSERTED INTO SLIDER HOLE OR HEIGHT 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 CAN NOT BE REACHED BY THE LIFTING PADS, DO NOT RAISE THIS VEHICLE!

TO RAISE

- ENGAGE THE UP-BUTTON ON THE POWER UNIT.
- RAISE VEHICLE TO THE DESIRED WORKING HEIGHT.
- LOWER THE UNIT ONTO THE MECHANICAL SAFETIES.

TO LOWER

- INSPECT THE LIFTING AREA TO INSURE THAT ALL PERSONNEL AND DEBRIS HAVE BEEN CLEARED FROM THE LIFTING AREA.
- ENGAGE THE UP-BUTTON ON THE POWER UNIT.
- RAISE UNIT APPROXIMATELY TWO INCHES.
- DISENGAGE THE MECHANICAL SAFETIES BY PRESSING THE AIR LOCK RELEASE BUTTON NEAR THE POWER UNIT.
- WHILE HOLDING THE LOCK RELEASE BUTTON, PRESS THE LOWER HANDLE AND LOWER UNIT TO THE DESIRED WORKING HEIGHT.
- ALWAYS ENGAGE THE UP-BUTTON ON THE POWER UNIT AND RAISE UNIT UNTIL BOTH MECHANICAL SAFETIES RE-ENGAGE.
- LOWER THE UNIT ONTO THE MECHANICAL SAFETIES BY PRESSING THE LOWER HANDLE ONLY.
- IF WORK IS COMPLETE, CONTINUE LOWERING THE UNIT (PRESSING THE LOWER HANDLE AND THE LOCK RELEASE SIMULTANEOUSLY) UNTIL BOTH CARRIAGES ARE FULLY LOWERED.

NOTE: 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.

MAINTENANCE PROCEDURES

-- TRAINED LIFT SERVICE PERSONNEL ONLY --

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

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 AREA AROUND THIS EQUIPMENT FREE OF DIRT, SAND, WATER, ETC.

WEEKLY

- PERFORM THE DAILY OPERATION CHECK LIST.
- 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.
(DO NOT USE GREASE)
- CYCLE UNIT TO FULL HEIGHT, AND BLEED APPROXIMATELY 30 SECONDS.

MONTHLY

- INSPECT LIFTING COMPONENTS FOR DEFORMATION, WEAR OR CORROSION.
- INSPECT ALL HYDRAULIC COMPONENTS FOR LEAKS, DEFORMATION, WEAR OR CORROSION.
- TIGHTEN ALL FASTENERS AND HYDRAULIC FITTINGS AS REQUIRED.
 1. ALL O - RING BOSS FITTINGS JAM NUTS ARE TO BE TIGHTENED TO 15-FOOT POUNDS TORQUE.
 2. ALL PIPE FITTINGS, IF LEAKING IS TO BE REMOVED, RE-SEALED, AND RE - INSTALLED. (SELECT - UNITE THREAD SEALANT OR EQUIVALENT ON FITTING, THREADS)
- INSPECT ANCHOR CONDITIONS FOR ANY POSSIBLE CORROSION AND INSPECT THE FLOOR FOR ANY SIGNS OF FATIGUE OR FRACTURES.

SEMI- ANNUAL

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

- VERIFY ALL FASTENERS TO PROPER TORQUE:
SWING ARM NUTS TIGHTEN TO 1000 FT-LB,
THEN BACK OFF UNTIL ARMS MOVE FREELY.
CARRIAGE STOP FASTENERS TO 150 FT-LB
CARRIAGE SIDE ROLLER NUTS TO 250 FT-LB
LIFTING ROD NUTS TO 650 FT-LB
CYLINDER TOP BOLT TO 650 FT-LB
ANCHORS (SEE ANCHOR SPECIFICATION SECTION)
- 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.
- THE CHANNEL SECTIONS WHERE THE CARRIAGE BEARINGS RIDE AGAINST SHOULD BE CLEANED AND LUBRICATED USING SLIP PLATE OR A LIGHT LUBRICANT (WD-40).
- THE MAIN CARRIAGE BEARINGS ARE FACTORY LUBRICATED AND SEALED. THEY DO NOT REQUIRE ANY ADDITIONAL PERIODIC LUBRICATION. HOWEVER, IF ADDITIONAL LUBRICATION IS DESIRED ON THESE UNDER THE CUSTOMER'S OWN INSPECTION AND MAINTENANCE PROGRAM, IT IS RECOMMENDED TO USE CAM2 - MULTIPURPOSE #2 GREASE (PART NO. 86035) OR EQUIVALENT. USE APPROXIMATELY 2 OZ. PER BEARING.

ANNUALLY

- CHECK YOUR HYDRAULIC FLUID ANNUALLY. EVERY FIVE YEARS REPLACE AND RE-BLEED THE HYDRAULIC FLUID. ALWAYS USE A CLEAN FUNNEL AND FILTER. USE DEXRON III HYDRAULIC FLUID.
- INSPECT ALL BEARINGS FOR UNUSUAL OR EXCESSIVE WEAR. (REPLACE IF NEEDED)
- REMOVE THE SWING ARM RESTRAINTS. THOROUGHLY CLEAN. USE A LIGHT LUBRICANT (WD-40 OR EQUIVALENT) REINSTALL. **DO NOT USE GREASE.**
- REMOVE THE SWING ARMS. THOROUGHLY CLEAN. USE A LIGHT LUBRICANT (WD-40 OR EQUIVALENT) REINSTALL. **DO NOT USE GREASE.**
- PERFORM THE DAILY, WEEKLY, AND MONTHLY MAINTENANCE PROCEDURES.

PART REPLACEMENT NOTES

- REPLACE ALL WORN OR BROKEN PARTS WITH GENUINE LIFT MANUFACTURER SUPPLIED PARTS (FROM MOHAWK RESOURCES LTD. ONLY)
- ALL REPLACEMENTS OF PARTS ARE TO BE PERFORMED BY TRAINED LIFT SERVICE PERSONNEL ONLY.
- UPON PART REPLACEMENT, LIFT MUST PASS A FULL LIFT INSPECTION AS DEEMED SUITABLE BY TRAINED LIFT SERVICE PERSONNEL.

HYDRAULIC SAFETY CHECKS / TROUBLE SHOOTING

WARNING: NEVER ATTEMPT TO LOOSEN HYDRAULIC FITTINGS, OR OVERRIDE SAFETY DEVICES IN AN ATTEMPT TO CORRECT A PROBLEM. ALL TESTS ARE TO BE PERFORMED WITH **NO** VEHICLE.

NOTE: THE HYDRAULIC SAFETY CHECK IS TO BE PERFORMED WITH NO VEHICLE ON THE UNIT. THE HYDRAULIC SYSTEM CHECKS WILL DETECT INTERNAL HYDRAULIC LEAKS. CONTACT YOUR LOCAL MOHAWK DISTRIBUTOR OR THE MOHAWK FACTORY SERVICE DEPARTMENT IF A CHECK SHOULD FAIL.

MAINSIDE SAFETY CHECK:

1. RAISE THE UNIT APPROXIMATELY 3 FEET
2. DISENGAGE THE **OFFSIDE** MECHANICAL SAFETY
3. LOWER THE UNIT ONTO THE **MAINSIDE** MECHANICAL SAFETY
4. WHILE CONTINUING TO HOLD DOWN THE POWER UNIT LOWERING HANDLE, OBSERVE THE **OFFSIDE** CARRIAGE FOR MOVEMENT. THE UNIT HAS CHECK OUT OK IF THERE IS NO MOVEMENT (**OFFSIDE** CARRIAGE DOES NOT CONTINUE TO LOWER)

OFFSIDE SAFETY CHECK:

1. RAISE THE UNIT APPROXIMATELY 3 FEET
2. DISENGAGE THE **MAINSIDE** MECHANICAL SAFETY
3. LOWER THE UNIT ONTO THE **OFFSIDE** MECHANICAL SAFETY
4. WHILE CONTINUING TO HOLD DOWN THE POWER UNIT LOWERING HANDLE, OBSERVE THE **MAINSIDE** CARRIAGE FOR MOVEMENT. THE UNIT HAS CHECK OUT OK IF THERE IS NO MOVEMENT (**MAINSIDE** CARRIAGE DOES NOT CONTINUE TO LOWER)

OFFSIDE CYLINDER / DIVERTER VALVE CHECK: (TO BE PERFORMED WHEN OFFSIDE CYLINDER DRIFTS DOWN)

1. RAISE THE UNIT APPROXIMATELY 3 FEET
2. DISENGAGE BOTH MECHANICAL SAFETIES
3. REMOVE THE BLEED LINE FROM THE TOP OF THE OFFSIDE CYLINDER AND CAP USING MOHAWK PN #601-420-001.
4. IF THE OFFSIDE CYLINDER NO LONGER DRIFTS DOWN, THEN THE OFFSIDE CYLINDER WILL NEED TO BE SERVICED.
5. IF THE OFFSIDE CYLINDER CONTINUES TO DRIFT DOWN, THEN THE DIVERTER PULL VALVE WILL NEED TO BE SERVICED.

MAINSIDE CYLINDER PISTON CHECK: (THIS CHECK IS TO BE PERFORMED AFTER ALL THE OTHER HYDRAULIC SAFETY CHECKS HAVE BEEN PERFORMED)

1. RAISE A VEHICLE SO THAT ALL FOUR TIRES ARE OFF THE FLOOR.
2. MEASURE AND RECORD THE CARRIAGE HEIGHTS ON THE MAINSIDE AND OFFSIDE.
3. CYCLE THE LIFT UP AND DOWN FOUR TIMES WITHOUT GOING TO FULL HEIGHT OR LETTING THE VEHICLE TIRES CONTACT THE FLOOR.
4. LOWER THE UNIT, STOPPING WHEN THE TIRES ARE AT THE APPROXIMATE HEIGHT AT THE BEGINNING.
5. MEASURE MAINSIDE AND OFFSIDE CARRIAGE HEIGHTS AGAIN.
6. THE CHECK HAS FAILED IF THE MEASUREMENTS CHANGE MORE THAN ¼ INCH.

TROUBLE SHOOTING

WARNING: NEVER ATTEMPT TO LOOSEN HYDRAULIC FITTINGS, OR OVERRIDE SAFETY DEVICES IN AN ATTEMPT TO CORRECT A PROBLEM. ALL TESTS ARE TO BE PERFORMED WITH **NO** VEHICLE.

POSSIBLE CAUSE	SOLUTION
NOT RAISING LOAD	
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	CONTACT MOHAWK SERVICE DEPARTMENT.
PRESSURE RELIEF CONTAMINATION	REFER TO POWER UNIT SPECIFICATIONS. REMOVE AND CLEAN DEBRIS FROM VALVE ASSEMBLY.
VOLTAGE TO POWER UNIT	REFER TO POWER UNIT SPECIFICATIONS. CONSULT AN ELECTRICIAN
UNIT OVERLOADED	VEHICLE IS TOO HEAVY TO BE RAISED
NOT LOWERING	
MECHANICAL LOCKS ENGAGED	RAISE UNIT. PRESS LOCK RELEASE BUTTON. WHILE HOLDING LOCK RELEASE BUTTON, PRESS THE LOWER HANDLE.
NO AIR SUPPLY FOR AIRLOCK RELEASE	VERIFY AT REGULATOR THAT AIR SUPPLY IS BETWEEN 60-80 PSI.
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. SEE FIGURE 5 & 6..
DEBRIS IN POSTS (TOOLS ETC.)	CLEAN UNIT
OBSTRUCTION UNDER VEHICLE OR LIFT	REMOVE OBSTRUCTION.
RAISING UNEVEN	
<u>RULE OF THUMB:</u> IF THE MAIN SIDE IS HIGH, RUN UNIT TO FULL HEIGHT. IF THE MAIN SIDE IS LOW, LOWER UNIT TO FLOOR. ALLOW TIME FOR THE OFF SIDE TO EQUALIZE.	
AIR IN SYSTEM	BLEED UNIT. REFER TO BLEEDING PROCEDURES.
CARRIAGE BEARINGS CONTACTING CARRIAGE STOPS	CARRIAGE BEARINGS ON THE MAIN SIDE MUST NOT CONTACT CARRIAGE STOPS. (RESULT OF INCORRECT ADJUSTMENT OF NUTS ON LIFTING RODS.) SEE FIGURE 7.
POSTS OUT OF SQUARE	VERIFY LEVEL ASSEMBLY. MAKE ANY AND ALL NECESSARY ADJUSTMENTS. SEE FIGURE 5 & 6.
SHOP FLOOR UNEVEN	VERIFY PROPER INSTALLATION OF MAIN SIDE POST. MAIN SIDE TO BE ON HIGH SIDE. SEE FIGURE 9.

TROUBLE SHOOTING, CONTINUED

POSSIBLE CAUSE	SOLUTION
RAISING UNEVEN, CONTINUED	
SHOP FLOOR UNEVEN	USE SPECIAL LIFT PADS. SEE FIGURE 10.
DIVERTER VALVE	REMOVE BLEED LINE FROM THE TOP OF THE OFF SIDE 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.
OFF SIDE CYLINDER	REMOVE BLEED LINE FROM THE TOP OF THE OFF SIDE CYLINDER AND CAP USING MOHAWK PART # 601-420-001. IF THE UNIT NO LONGER DRIFTS DOWN THE OFF SIDE CYLINDER WILL NEED TO BE SERVICED..
MAIN SIDE CYLINDER	PERFORM HYDRAULIC SAFETY CHECKS. CHECK FOR INTERNAL HYDRAULIC LEAKS
SLOW DRIFT DOWN	
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 OFF SIDE 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.
OFF SIDE CYLINDER	REMOVE BLEED LINE FROM THE TOP OF THE OFF SIDE CYLINDER AND CAP USING MOHAWK PART # 601-420-001. IF THE UNIT NO LONGER DRIFTS DOWN THE OFF SIDE CYLINDER WILL NEED TO BE SERVICED..
EXTERNAL HYDRAULIC LEAKS	
NOTE: TIGHTEN ALL FITTINGS PER SPECIFICATIONS	
MAIN SIDE CYLINDER	THOROUGHLY CLEAN THE CYLINDER. VERIFY LEAK ORIGIN. FITTINGS ARE TO BE TIGHTENED PER SPECIFICATIONS
OFF SIDE 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
LOOSE PIPE FITTING	REMOVE, RESEAL, AND RE-INSTALL FITTING. SEAL ALL PIPE FITTING CONNECTIONS WITH THREAD SEALANT MOHAWK PART # 601-610-002 NOTE: DO NOT USE TEFLON TAPE.

SERVICE CHART

MODEL: _____
SERIAL NUMBER: _____
DATE OF INSTALLATION: _____

DATE	PART REPLACED / SERVICED	SERVICE COMPANY	SERVICED BY

MAINTENANCE CHART

DATE	MAINTENANCE PERFORMED	SERVICE COMPANY	SERVICED BY

TO BE USED IN CONJUNCTION WITH ELECTRICAL SCHEMATIC**2-POST ELECTRICAL RATINGS:****Models A-7, System 1A, LC-12 - 2 HP, 60 HZ**

	VOLTS (VAC)	Ph (Ø)	FULL LOAD AMPS	MAXIMUM CIRCUIT BREAKER	MINIMUM SUPPLY WIRE AMPACITY
	208-230	1	13.9-13	35	25 (14 GA)
	208-230	3	6	15	25 (14 GA)
	460	3	3	7.5	25 (14 GA)

Models LMF-12 & TP-16: (4HP/1Ph/60Hz) (5HP/3PH/60Hz)

	VOLTS (VAC)	Ph (Ø)	FULL LOAD AMPS	MAXIMUM CIRCUIT BREAKER	MINIMUM SUPPLY WIRE AMPACITY
	208-230	1	19.7-17.8	45	30 (12 GA)
	208-230	3	13.7-12.4	20	25 (14 GA)
	440-480	3	6.5-5.9	10	25 (14 GA)

Models TP-18 & TP-20: (4HP/1Ph/60Hz) (5HP/3PH/60Hz)

	VOLTS (VAC)	Ph (Ø)	FULL LOAD AMPS	MAXIMUM CIRCUIT BREAKER	MINIMUM SUPPLY WIRE AMPACITY
	208-230	1	18.5-16.7	45	30 (12 GA)
	208-230	3	13.7-12.4	20	25 (14 GA)
	440-480	3	6.5-5.9	10	25 (14 GA)

1. CIRCUIT BREAKER TO BE THERMAL MAGNETIC.
2. WIRE TO BE COPPER STRANDED, TYPE THHN, 90°C.
3. DO NOT USE BELOW GARAGE FLOOR OR GRADE LEVEL.
NE PAS UTILISER À UN NIVEAU INFÉRIEUR À CELUI DU
PLANCHER DU GARAGE OU DU SOL.

REV:5/2011 601-800-303

1. ALL ELECTRICAL EQUIPMENT AND WIRING SHALL CONFORM TO ANSI/NFPA 70, NATIONAL ELECTRICAL CODE.
2. IT SHALL BE THE RESPONSIBILITY OF THE OWNER / EMPLOYER TO PROVIDE NECESSARY LOCKOUTS / TAGOUTS OF ENERGY SOURCES IN ACCORDANCE WITH ANSI Z244.1, BEFORE ATTEMPTING REPAIRS.
3. ALL FIELD WIRING / ELECTRICAL RELATED LABOR SHALL BE PERFORMED BY CERTIFIED ELECTRICIANS.
4. UNIT MUST BE PROPERLY GROUNDED IN ACCORDANCE TO NEC ARTICLE 250 (GROUNDING), AND APPLICABLE LOCAL CODES.
5. ## DENOTE WIRE NUMBERS. (WHERE APPLICABLE)
6. LABEL MARKERS SHALL BE PLACED ON ALL WIRES (BOTH ENDS), SWITCHES, RELAYS, LAMPS, ETC., ALL WIRES TO BE INSTALLED WITH TERMINAL LUGS. ALL CONNECTIONS SHALL BE WRENCH TIGHT. (WHERE APPLICABLE)
7. THE FOLLOWING COLOR WIRES SHALL BE RESERVED.
GREEN: ALL EQUIPMENT GROUNDING CONDUCTORS.
WHITE: ALL NEUTRAL CONDUCTORS.
8. VERIFY PROPER MOTOR WIRING FOR PROPER VOLTAGE & ROTATION AT INITIAL START-UP.
9. TRANSFORMER TERMINALS TO BE WIRED AND FUSED ACCORDING TO CUSTOMER'S POWER SUPPLY. SEE TABLES ABOVE FOR FUSE SIZES, HEATER ELEMENT SIZES, & TRANSFORMER WIRING. (WHERE APPLICABLE)
10. ALL FUSES TO BE CLASS CC TIME DELAY TYPE. (WHERE APPLICABLE)

MOHAWK

MODEL LMF-12 TP-15, TP-16 & TP-18

FIGURES & DIAGRAMS



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.
AMSTERDAM, NY 12010
TOLL FREE: 1-800-833-2006
LOCAL: 1-518-842-1431
FAX: 1-518-842-1289

INTERNET: WWW.MOHAWKLIFTS.COM
E-MAIN: SERVICE@MOHAWKLIFTS.COM

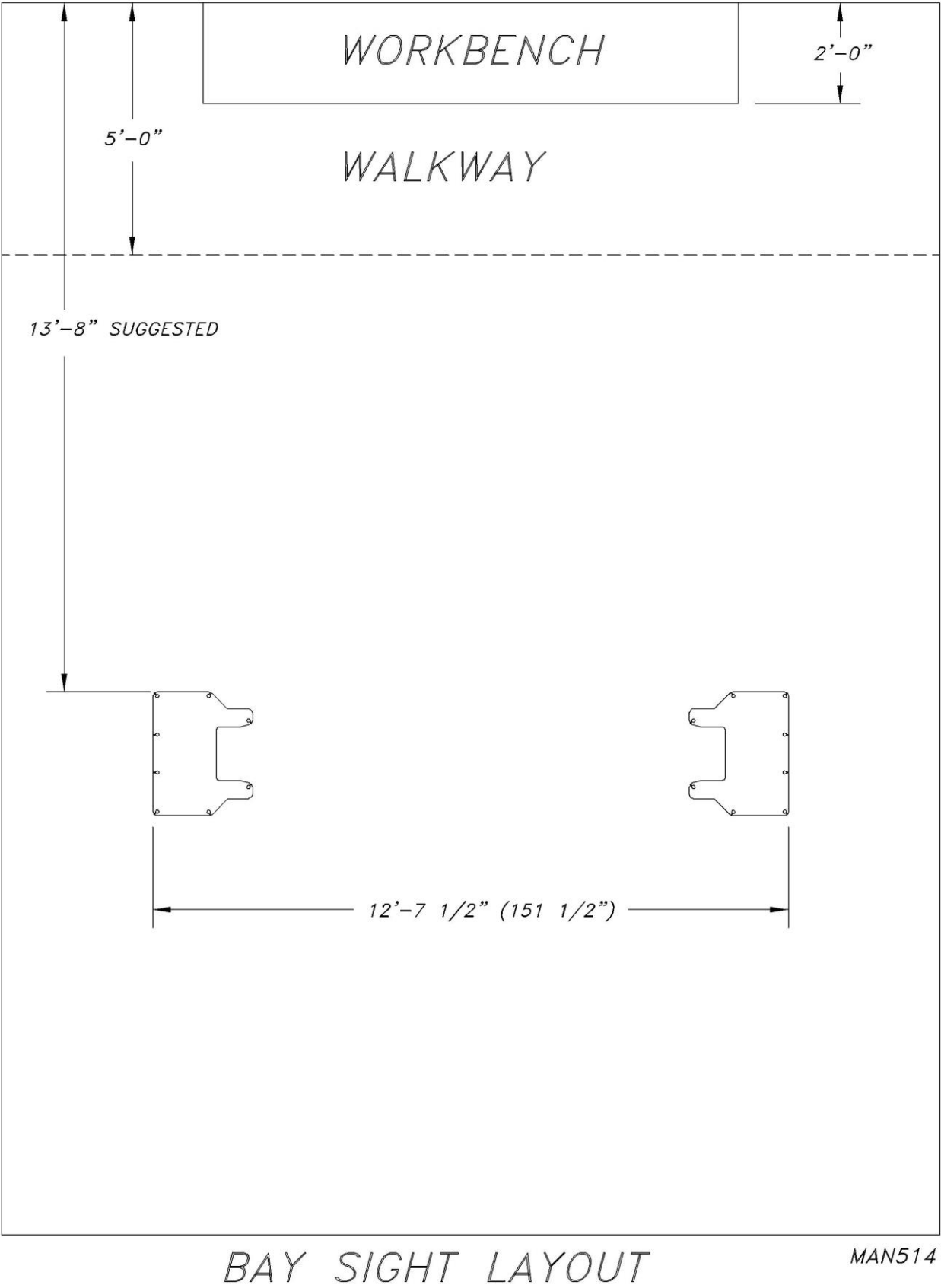
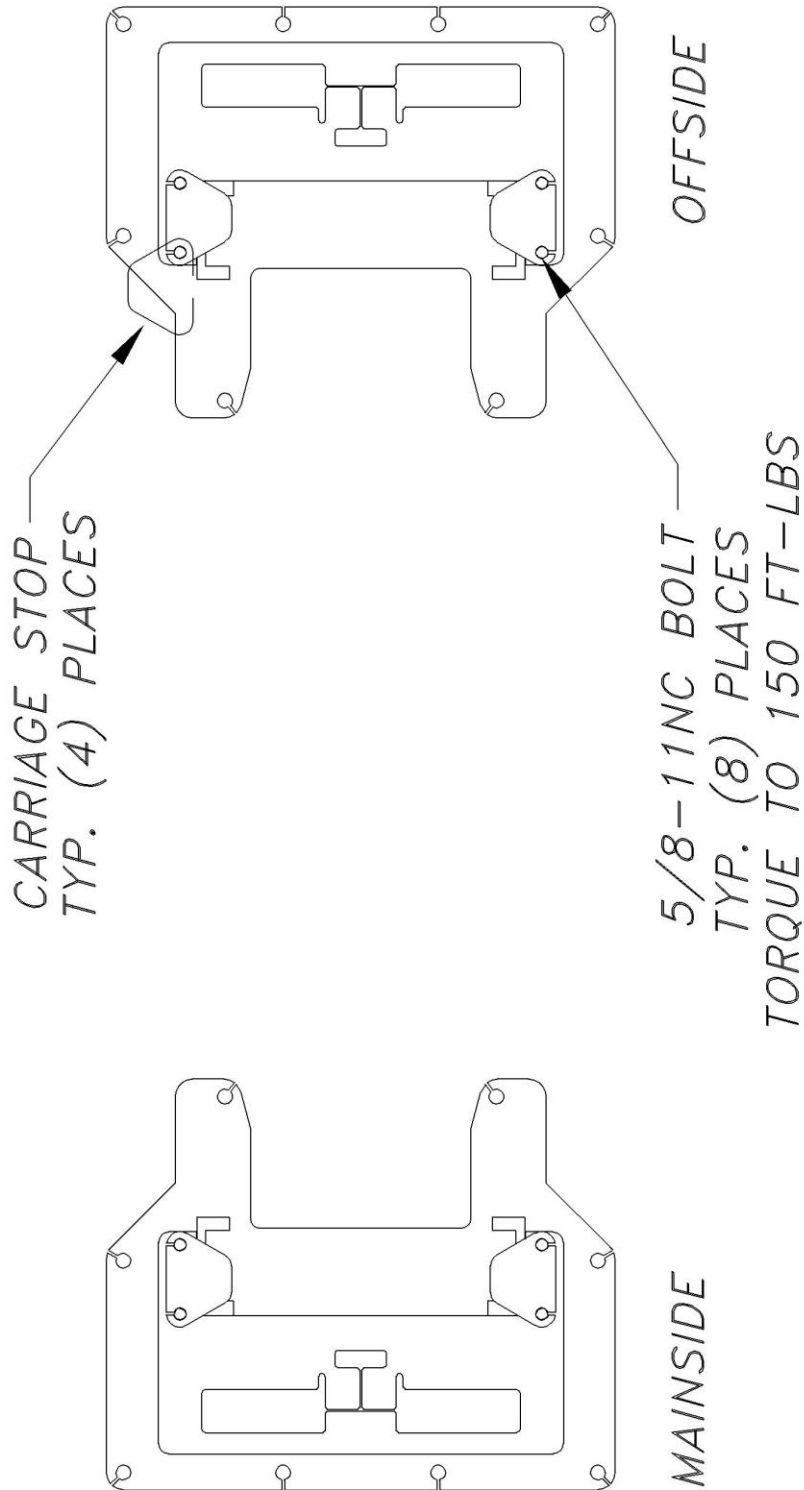


Figure 1

—CAUTION—

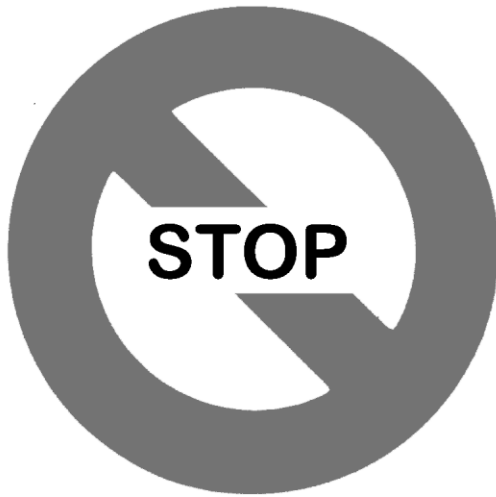
THESE CARRIAGE STOPS ARE TO BE USED IN THE ASSEMBLY OF THIS LIFT. IT IS EXTREMELY IMPORTANT TO PLACE THESE IN THEIR DESIGNATED POSITION WHICH IS SHOWN BELOW.



MAN515

Figure 2

WEJ-IT INSTALLATION



**DO NOT USE
IMPACT WRENCH**

USE HAND WRENCH ONLY

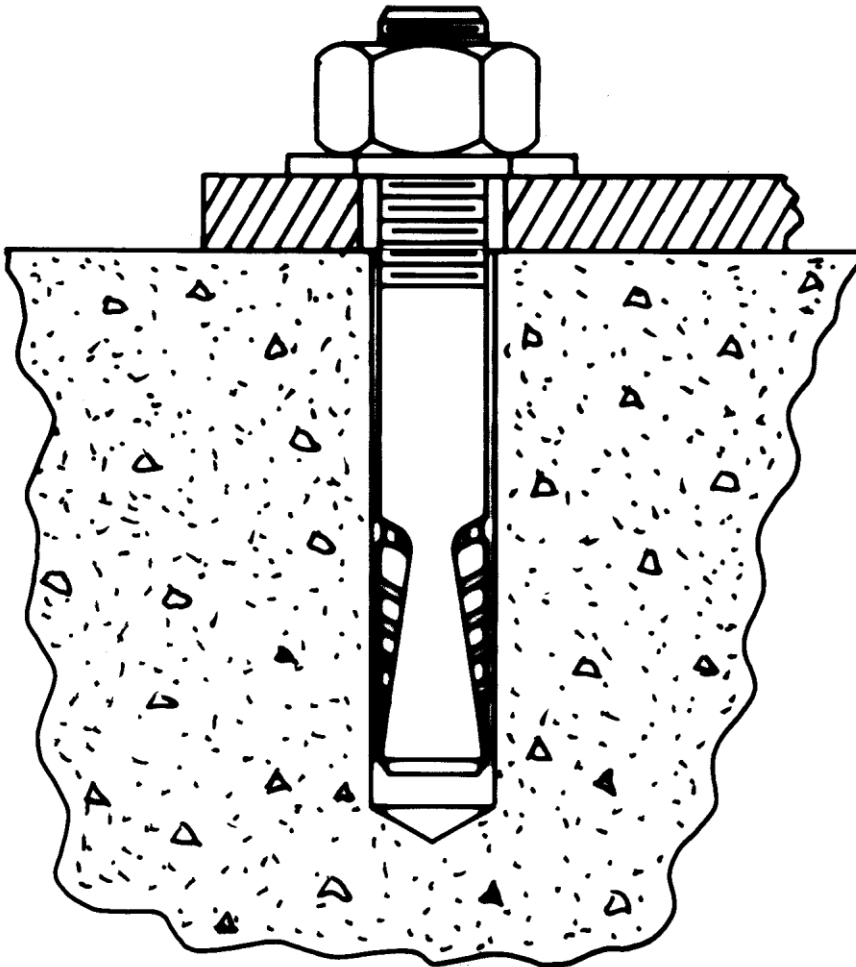
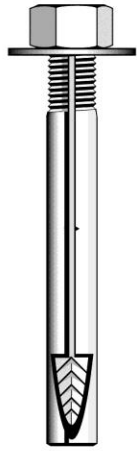


Figure 3



The Original **wej-it**® Wedge Anchors

KEY FEATURES/BENEFITS

- **Time-Tested, Proven Reliability.** An industry standard for over 45 years.
- **Fully Assembled and Ready to Use.** Unparalleled job-site convenience.
- **BOLT SIZE IS HOLE SIZE.®** Allows precision placement of equipment through pre-drilled holes.
- **Exclusive "Positive Wedge Connections."** Minimizes wedge loosening due to vibratory loads.



SPECIFICATIONS, APPROVALS AND LISTINGS

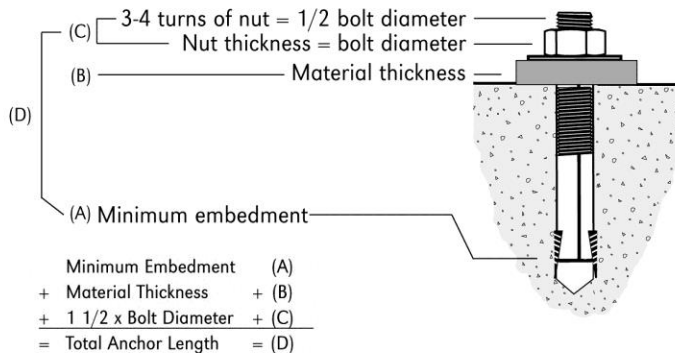
TYPE	
Zinc Plating	ASTM B-633, Type III, SCI
ICBO-ES	Report #1821
City of Los Angeles	#RR 24939
DOT	Please call Customer Service for specific information by state.
Federal Specifications	QQZ-325C, Type II, Class 3 (Clear Chromate added) FFS-325, Group II, Type 4, Class 1

MAXIMUM TENSILE AND SHEAR CAPACITY FOR STATIC LOADS

	LIMESTONE AGGREGATE			UNREINFORCED STONE AGGREGATE CONCRETE ZIN PLATED ARBON STEEL								UNREINFORCED LIGHTWEIGHT (IDEALITE)		
Anchor & Hole Size	Embed- ment (in)	2000 psi		Embed- ment (in)	3000 psi		5000 psi		7000 psi		Embed- ment (in)	5000 psi		
		Tension (lbs)	Shear (lbs)		Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)				
3/4	•	•	•	3	11579	15537	19299	21000	27019	23103	3 1/2	17293	19050	
3/4	•	•	•	7	15444	15537	25740	21000	36036	23103	•	•	•	
1	•	•	•	5 1/2	16351	•	27252	33083	38153	35700	4 1/2	21616	31666	
1	•	•	•	7	17837	•	29728	33083	41619	35700	•	•	•	
Source	1			2								2		

Sources (available upon request): 1) University of Texas, Austin, TX (using new ICBO-ES testing criteria); 1993. 2) AA Engineers & Associates, Inc., Denver, CO; 1981.

LENGTH SELECTION GUIDE



EDGE DISTANCE AND SPACING REQUIREMENTS

Embedment (E) in Anchor Diameters (d)	Spacing	Edge Distance
$E < 6d$ (shallow)	3.50E	1.75E
$6d \leq E \leq 8d$ (standard)	2.00E	1.00E
$8d < E$ (deep)	1.50E	0.75E

NOTES:

- Information provided only for the use of a qualified design engineer. Use of technical data by persons not qualified could cause serious damage, injury, or even death.
- Ultimate values shown. For static loads, use one-fourth of the maximum tensile and shear capacities for the recommended 4:1 safety factor.

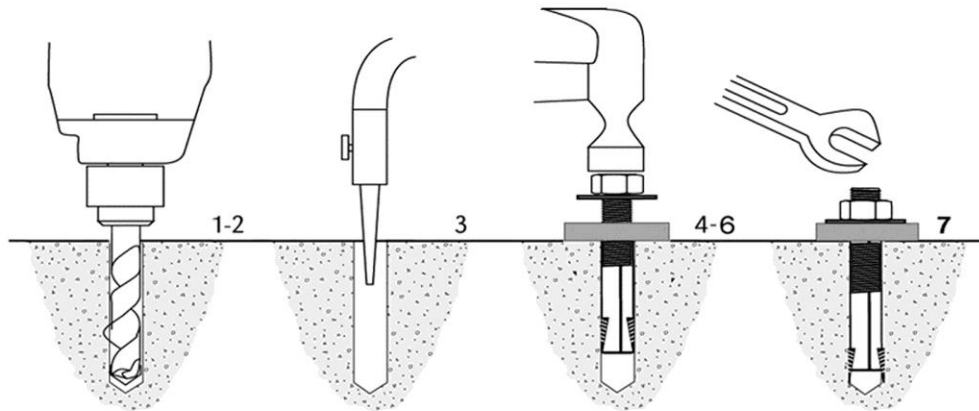
Figure 4a

INSTALLATION INSTRUCTIONS – MOHAWK LIFTS

1. Drill the hole perpendicular to the work surface.* The drill bit diameter will be the same as the anchor diameter that you are installing. To assure full holding power, do not ream the hole or allow the drill to wobble. **Ensure all holes are a minimum of 6 inches away from any cracks, seams or defects in the concrete.**
2. Drill the hole 1 diameter deeper than the intended embedment of the anchor, but not closer than two diameters to the bottom (opposite) surface of the concrete.
3. Clean the hole using compressed air and a nylon brush. A clean hole is necessary for proper performance.
4. For ease of installation, make certain that the spear heads are located up against the wedge pockets.
5. Turn the nut onto the anchor until contact is made with the top of the spears and the bottom of the washer. Insert anchor into hole.
6. Tap anchor into hole with a 2 ½ lb. hammer until the washer rests solidly against the base plate.
7. Tighten the nut from 1 ½ to 3 turns past hand tight position to estimated installation torque below. Use of an Impact wrench for Installation of the anchor is NOT recommended.

TORQUE VALUES

Anchor Diameter (in)	Drill Bit Diameter (in)	Estimated Install Torque (ft-lb)
3/4	3/4	75
1	1	130



INSPECTION & MAINTENANCE INSTRUCTIONS

1. Verify torque on anchors to 70 ft-lbs for 3/4 anchors and 120 ft-lbs for 1" anchors for future/annual inspections.

* Always wear safety glasses. Follow the drill manufacturer's safety instructions. Use only solid carbide-tipped drill bits meeting ANSI B212.15 diameter standards as listed on back cover.

REV: 11/07

Figure 4b

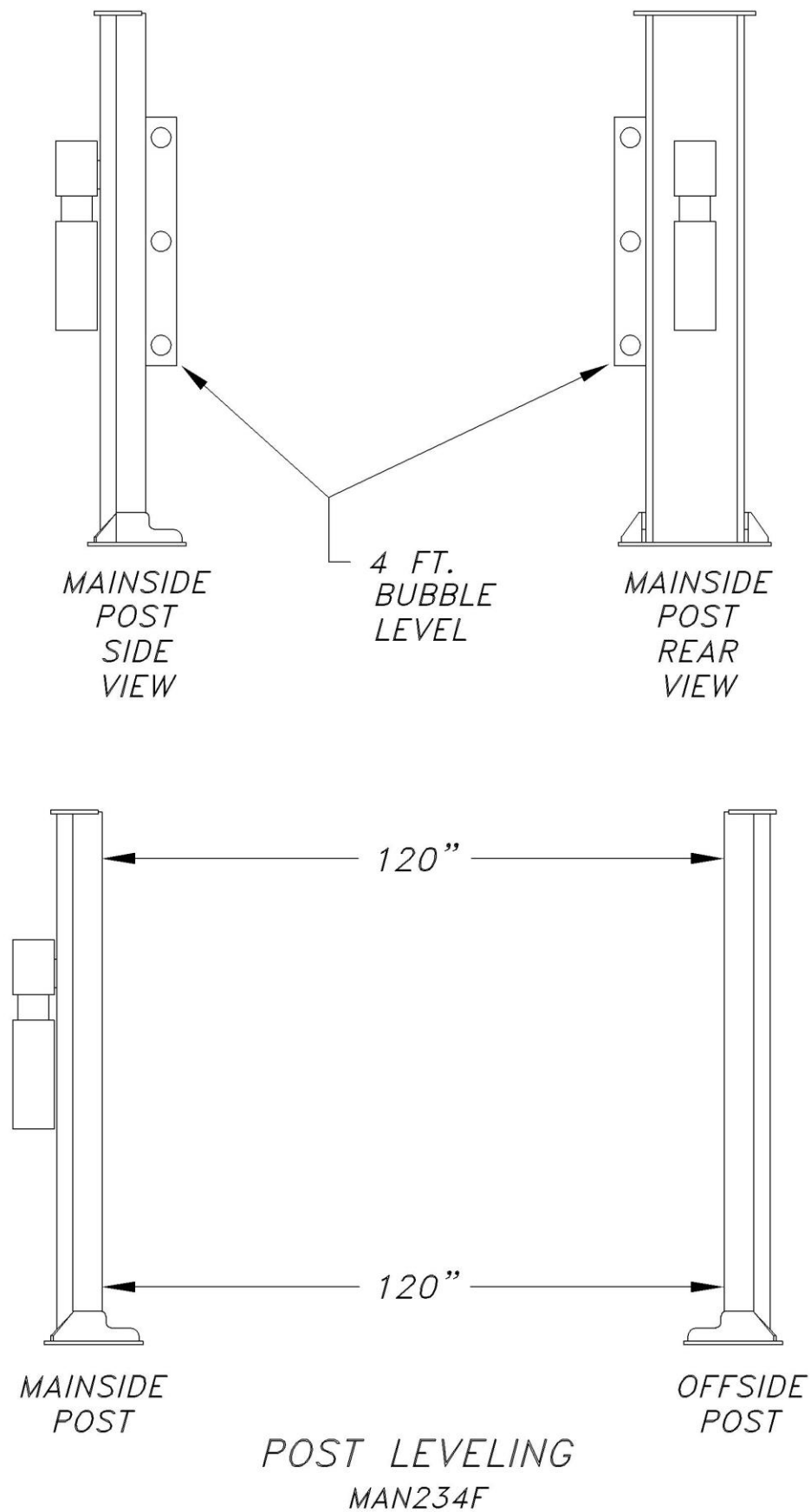
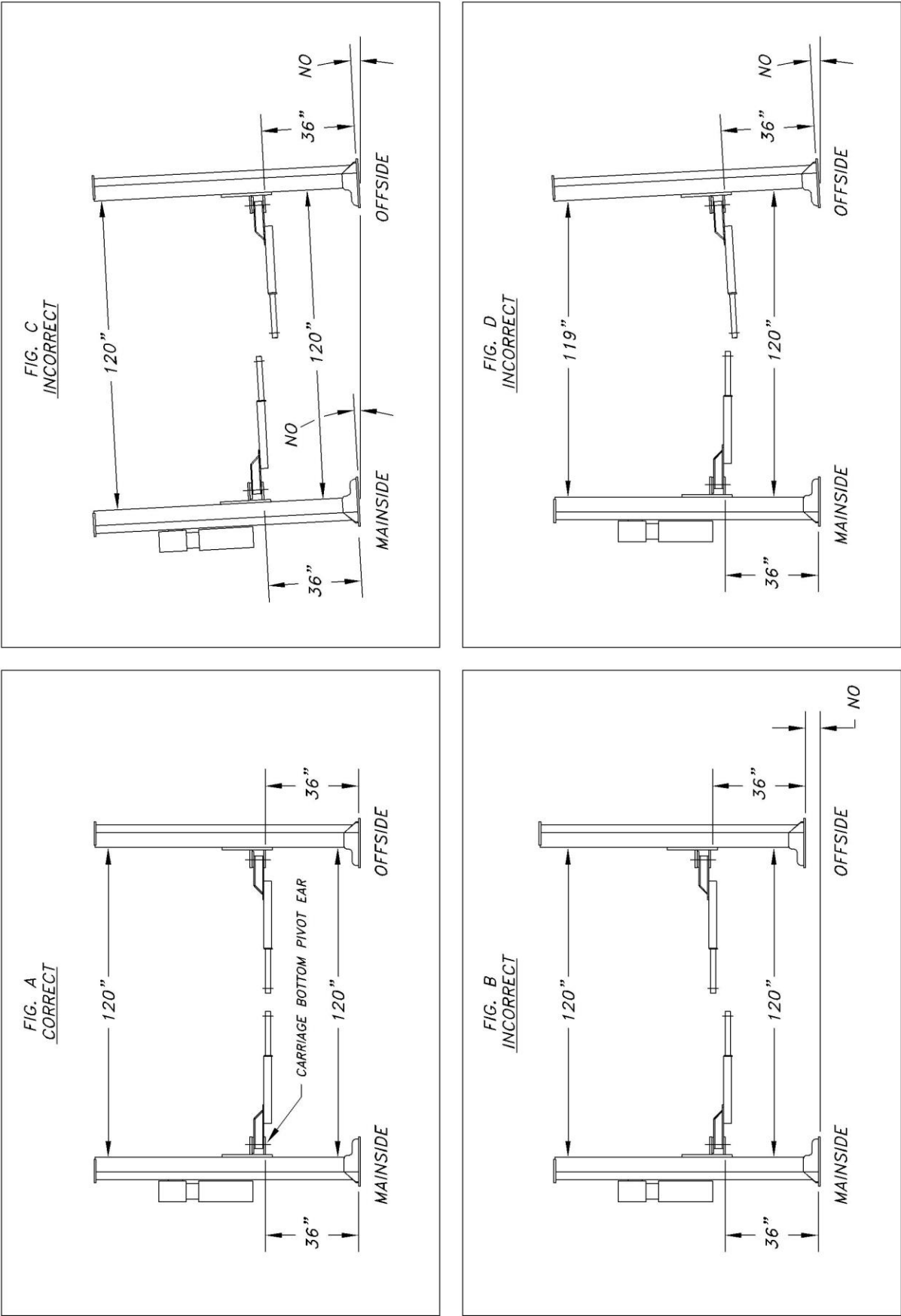


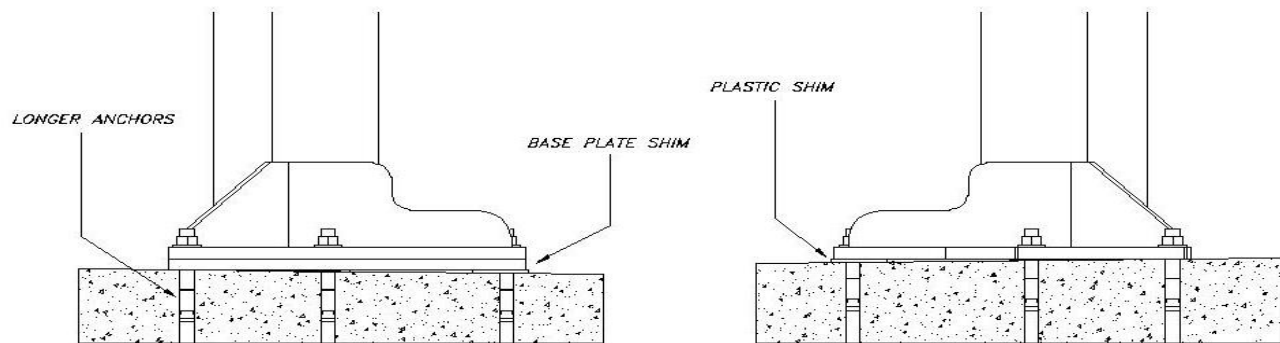
Figure 5



MAN234C

POST SHIMMING

Figure 6



GENERAL POST SHIMMING GUIDELINES:

1. High strength plastic shims are supplied with all lifts to accommodate slight slopes in floors for proper leveling of posts. These are not intended to compensate for larger slopes.
2. Post shimming should not exceed base plate thickness. If it does, it is recommended to use an additional base(s) as shims (ordered separately).
3. Any shimming, be it plastic shims or base plates, over 1/2 inch in total thickness, will require longer anchor bolts (ordered separately) to maintain proper anchor embedment depth in concrete.
4. For any gap filling in up to 1/2 inch, it is recommended to use high compression 2-part epoxy grouting under the base plate to spread the compressive load of the base plate onto the flooring. For filling gaps in excess of 1/2 inch, it is recommended to use high compression concrete grouting. Refer to Mohawk's recommendations on preferred grout types and methods.

FILE: MAN093.DWG

Figure 6A

ADJUSTING CARRIAGE NUTS

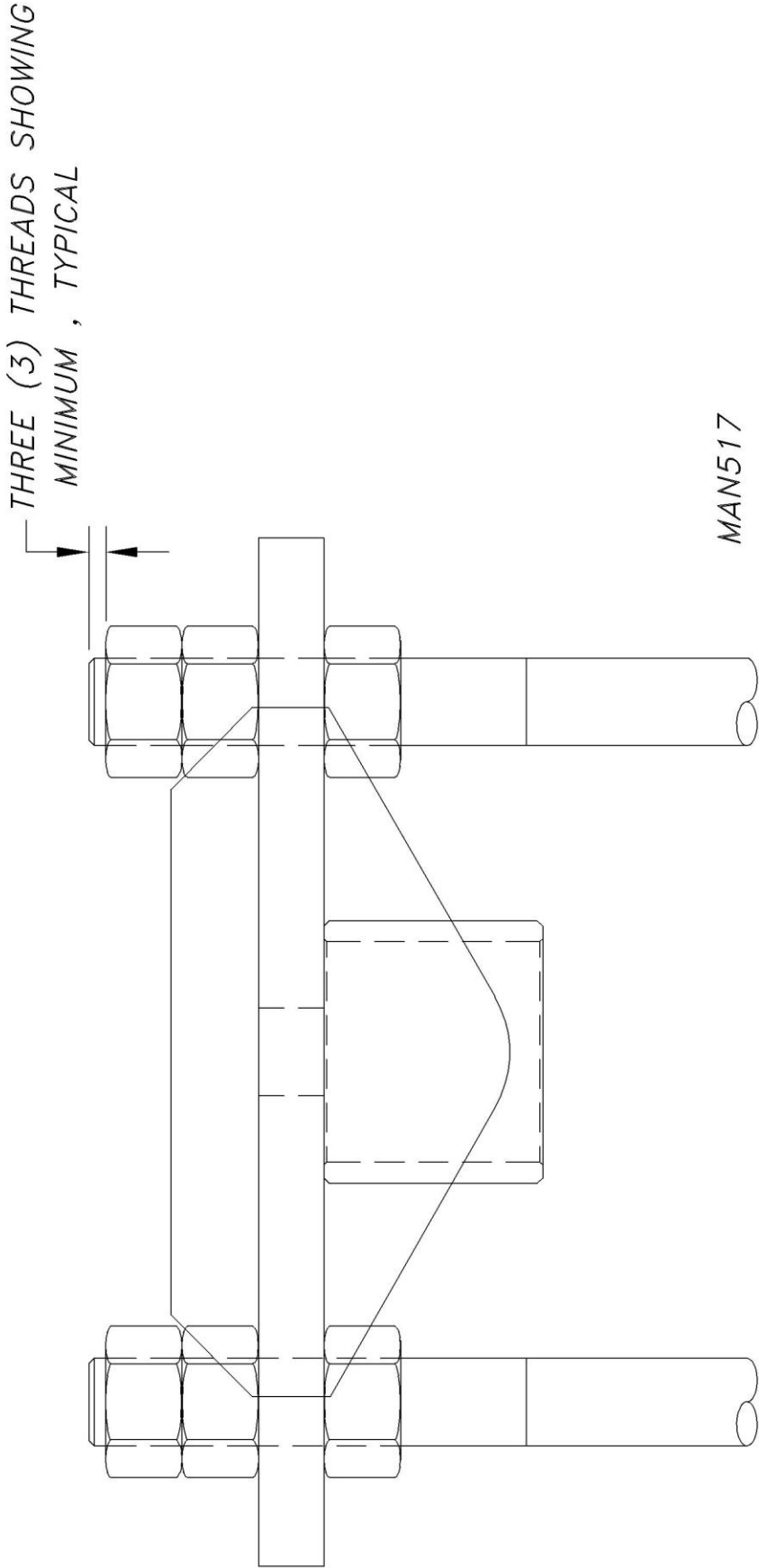


Figure 7

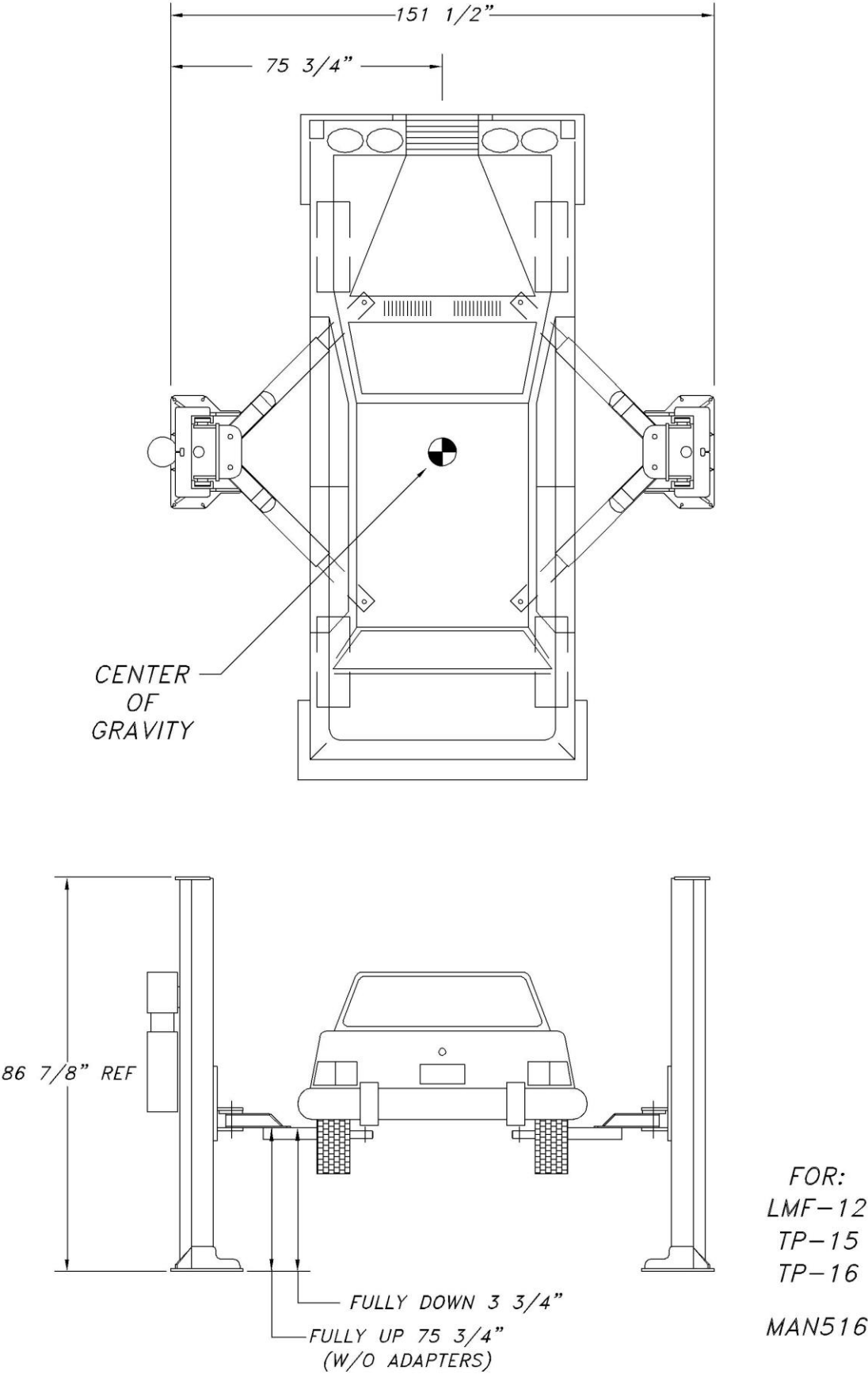


Figure 8

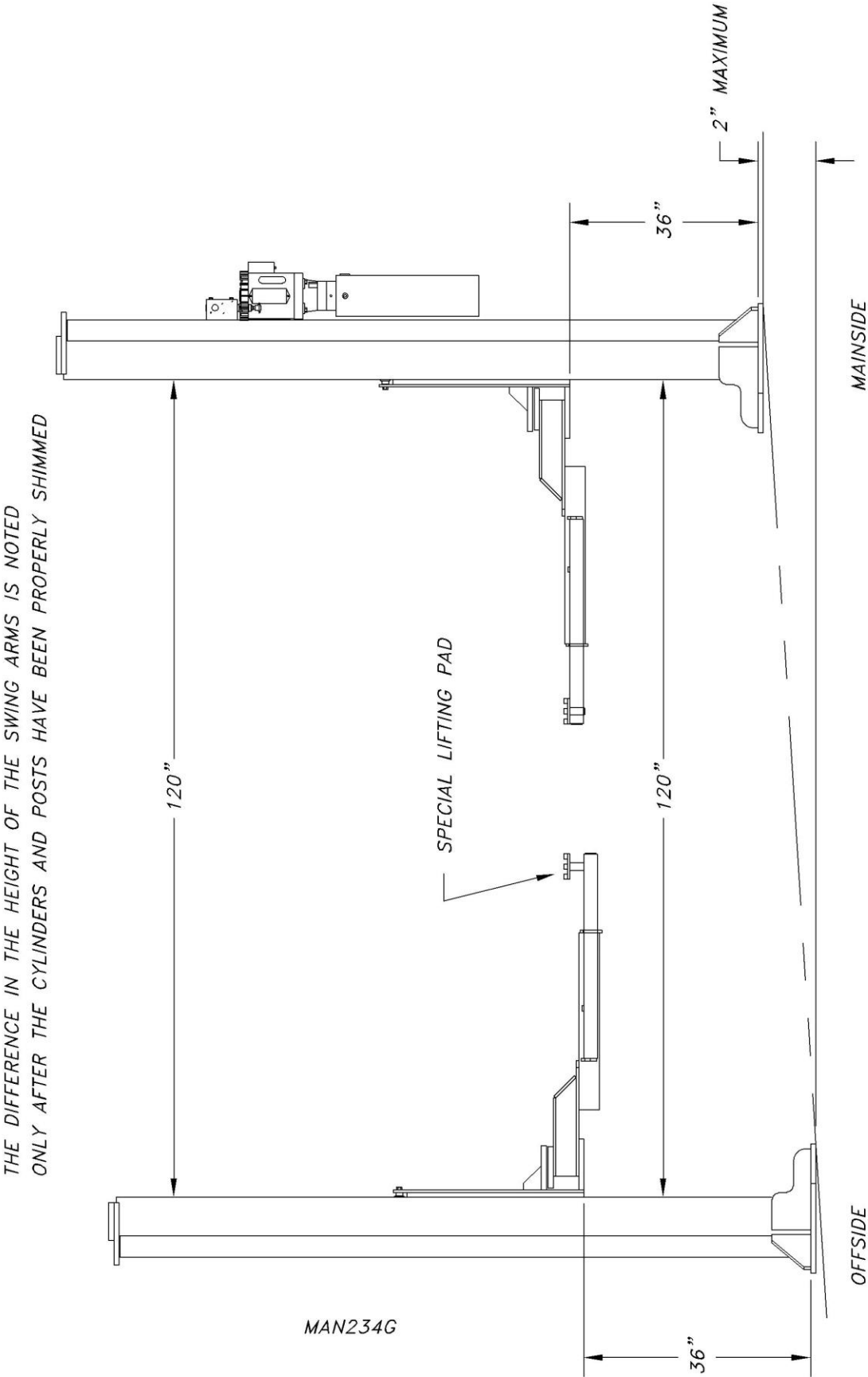
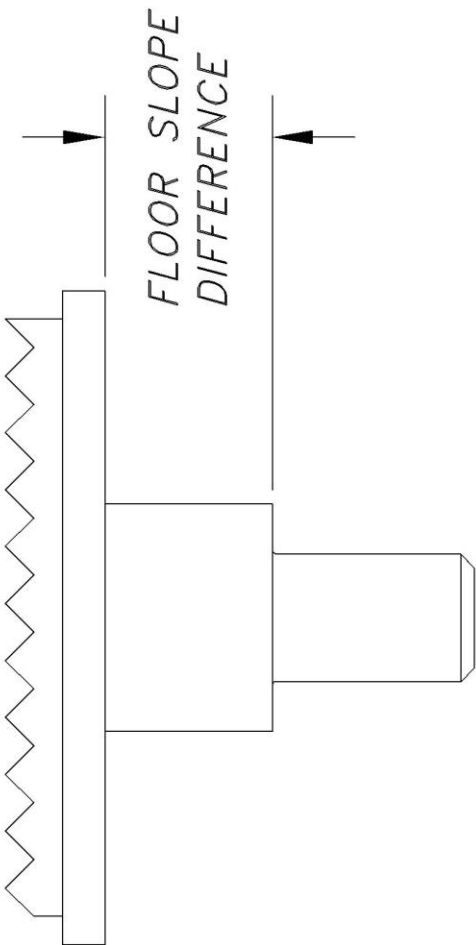
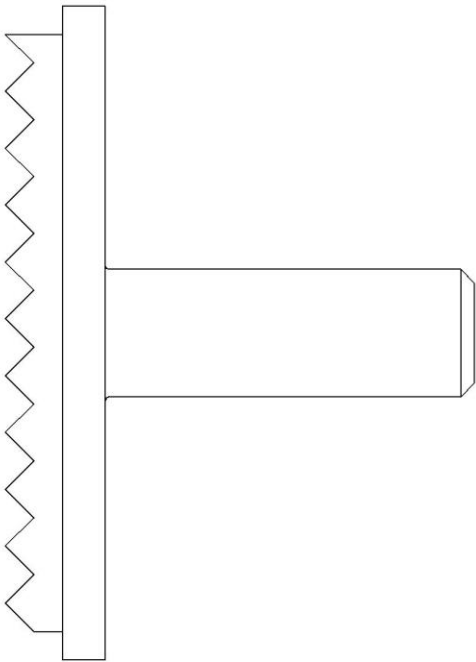


Figure 9



SPECIAL LIFTING PAD



STANDARD LIFTING PAD

MAN117F

Figure 10

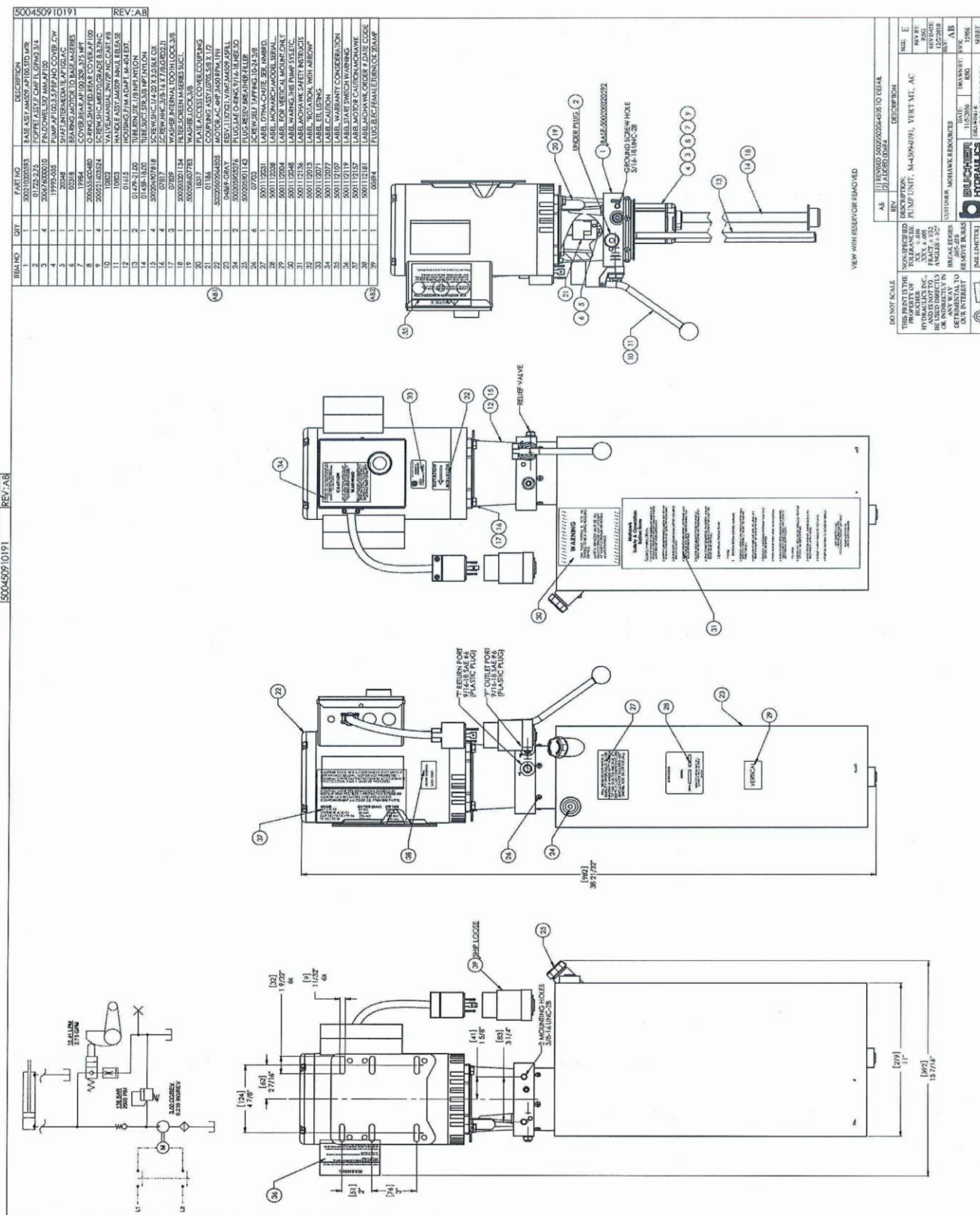


Figure 11



LIFTING PAD PROCEDURES:

NOTICE:

IF ANY OF THESE REQUIREMENTS CANNOT BE MET, DO NOT RAISE ANY EQUIPMENT WITH LIFT.

PRE-OPERATION CHECK:

VISUALLY INSPECT ALL LIFTING PADS AND HEIGHT ADAPTERS FOR ANY WEAR, RUST, DEBRIS, OR DEFORMITIES. IF NEEDED, THOROUGHLY CLEAN AND OIL WITH LIGHT OIL OR LUBRICANT, SUCH AS WD-40, ENSURE NO OIL OR GREASE IS PRESENT ON TOP SURFACES OF PADS, WHERE PADS CONTACT VEHICLE PICK POINTS.

PLACEMENT:

- LIFTING PADS ARE TO BE POSITIONED TO CONTACT THE FRAME RAILS OR PICK POINTS OF VEHICLES ACCORDING TO THE LOCATIONS SPECIFIED IN ALI/LP-GUIDE VEHICLE LIFTING POINT GUIDE.
- FRAME RAILS/PICK POINTS ARE TO BE CENTERED ON LIFTING PADS AND REST FLAT ON LIFTING PAD SURFACES (SEE DIAGRAMS BELOW).
- LIFT PAD IS TO BE FULLY INSERTED INTO SLIDER HOLE OR HEIGHT ADAPTER.
- NO MORE THAN (2) TWO HEIGHT ADAPTERS ARE TO BE USED AT ANY TIME FOR ANY SINGLE LIFTING PAD.

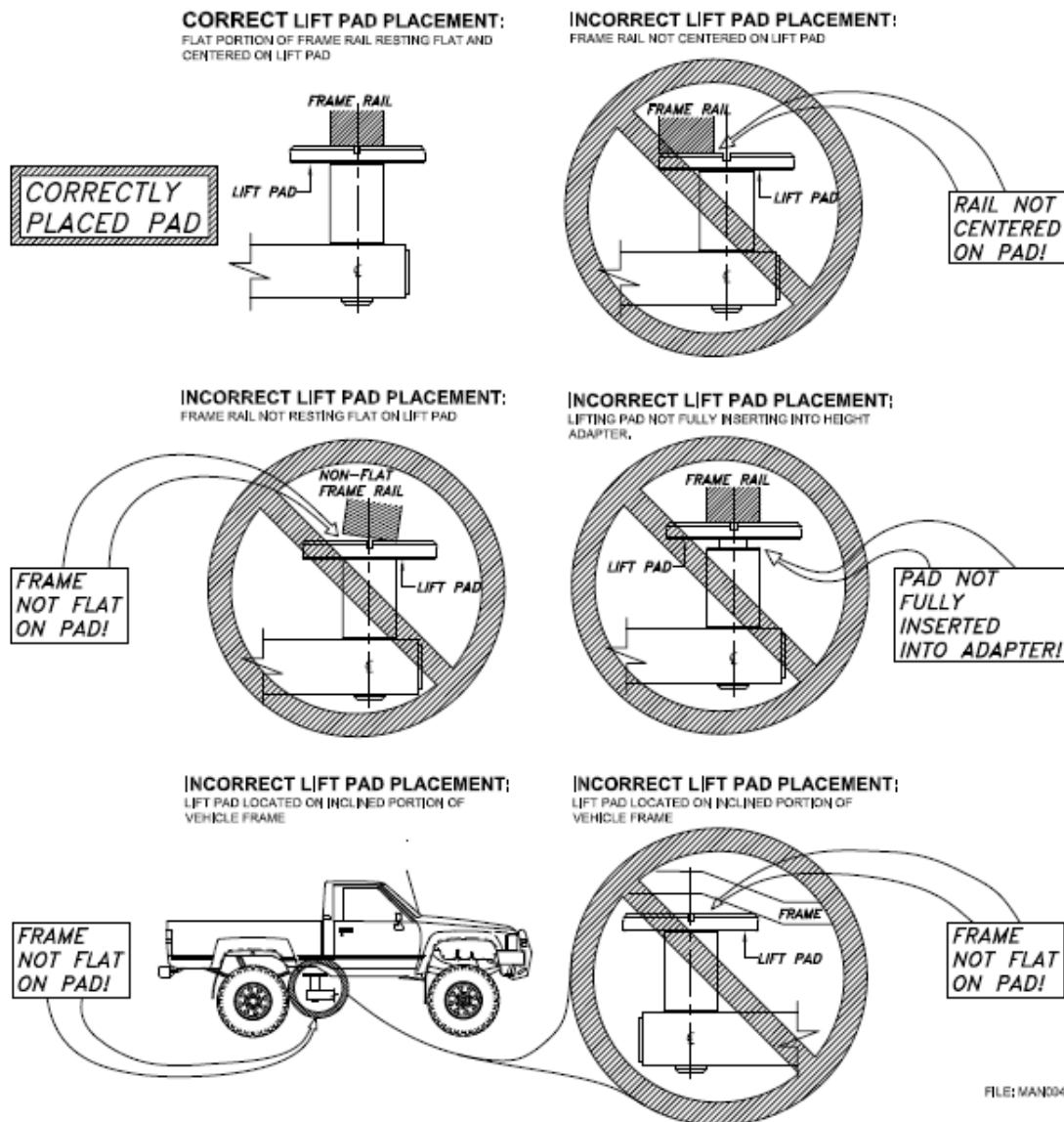


Figure 13

MOHAWK

MODEL LMF-12 TP-15, TP-16 & TP-18

PARTS



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.

AMSTERDAM, NY 12010

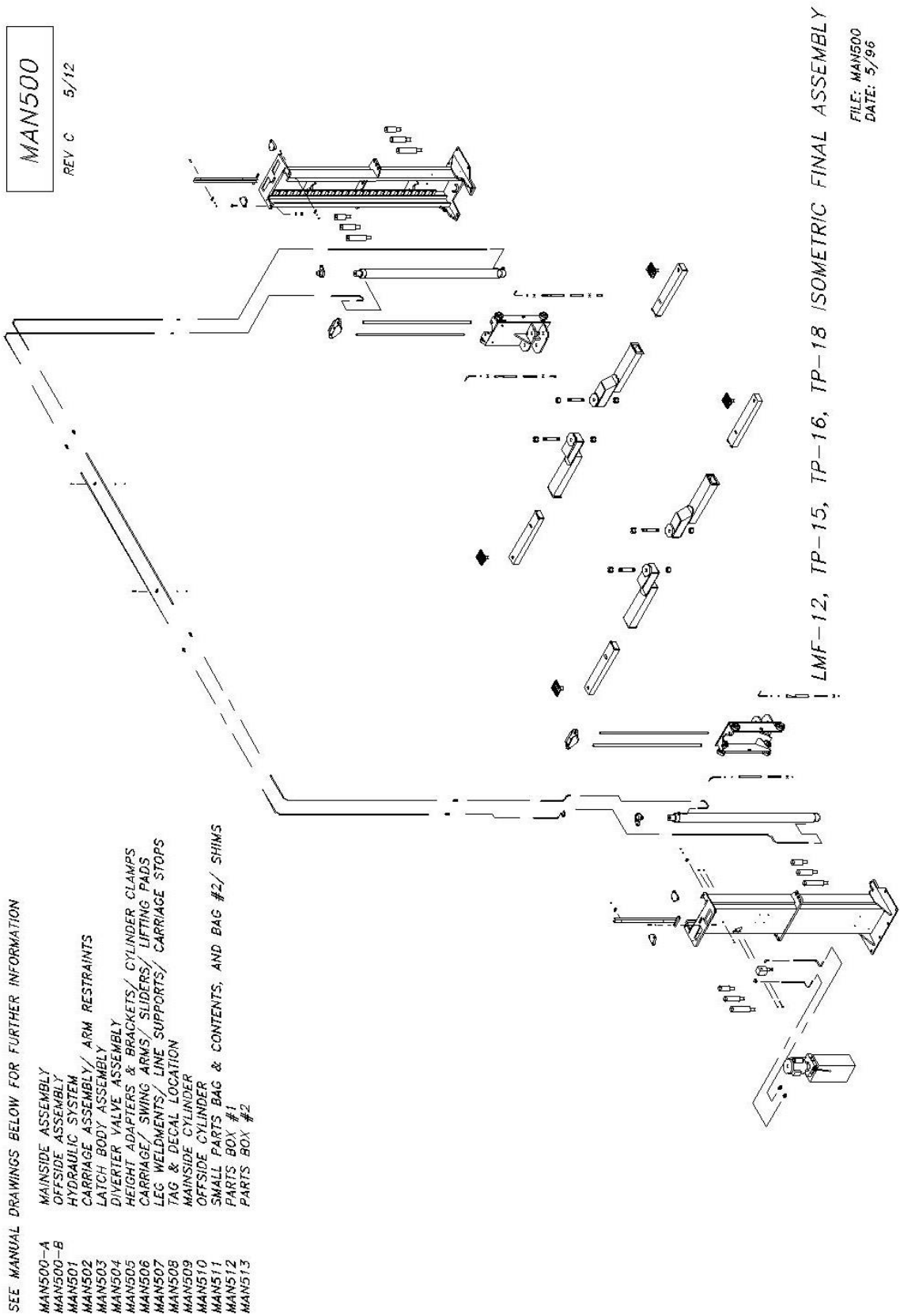
TOLL FREE: 1-800-833-2006

LOCAL: 1-518-842-1431

FAX: 1-518-842-1289

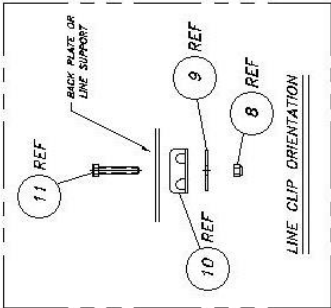
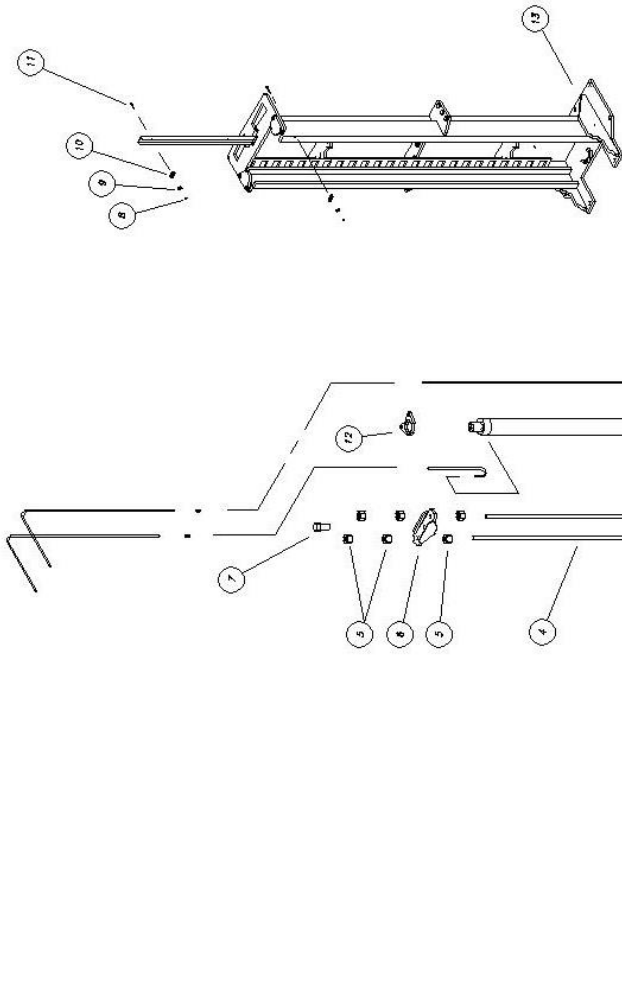
INTERNET: WWW.MOHAWKLIFTS.COM

E-MAIN: SERVICE@MOHAWKLIFTS.



MAN500-B

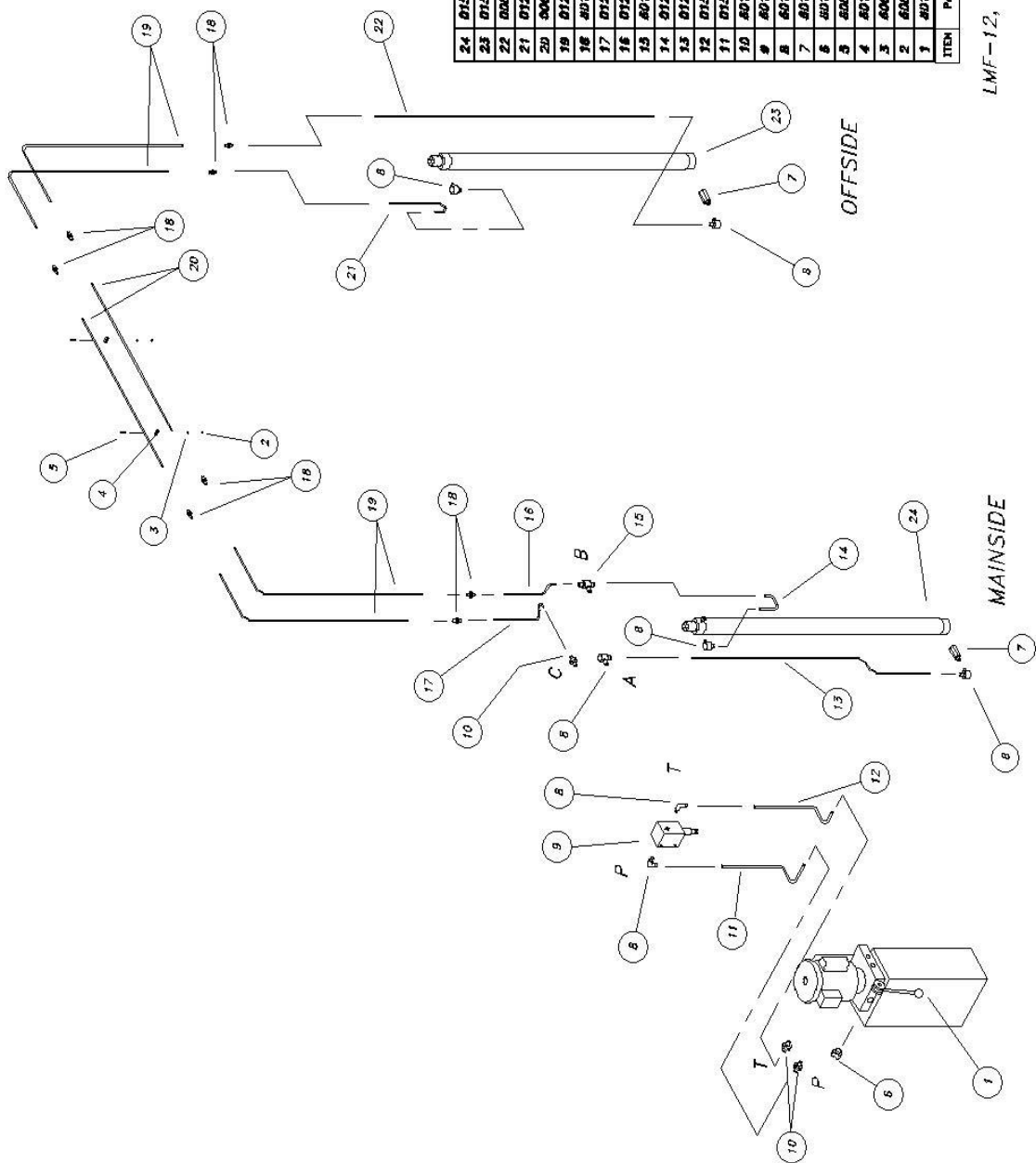
REV-F 5/12



ITEM	PART NUMBER	DESCRIPTION	QTY
1	MAN500	CARRIAGE/SHIMMER ARM/SOLDER/LIFTING PLUG	1
2	013-000-000	CARRIAGE ASSEMBLY	1
3	013-000-010	OFFSHORE ROLLER	2
4	012-012-121	LIFTING ROLL, 1" DIA. x 62 1/8"	2
8	000-000-004	NUT, PLAIN, 1-1/4" NF	22
7	000-000-005	BOLT, 3-1/4" NF x 2 1/2", HEX HEAD CAP	1
9	000-000-006	NUT, LOCK, 1/4-20 NF	2
10	001-710-001	ROUNDER LINE CLIP	2
11	000-000-010	BOLT, 1/4-20 NF x 1 1/2", HEX HEAD CAP	2
12	MAN500	HEIGHT ADAPTER & BRACKET	1
13	MAN500	LEG WELDMENT/LINE SUPPORT/CARRIAGE STAND	1

LMF-12, TP-15, TP-16, TP-18 OFFSIDE ASSEMBLY
FILE: MAN500-B
DATE: 5/96

MAN501
REV H 5/12

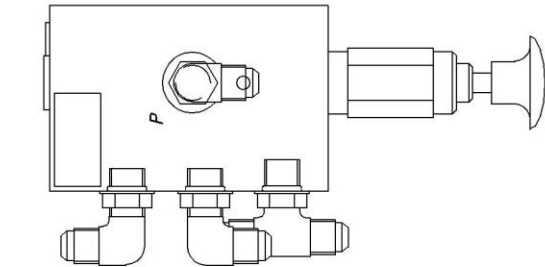


ITEM	PART NUMBER	DESCRIPTION	QTY
24	013-000-008	MAINSIDE CYLINDER ASSEMBLY	1
23	015-000-010	OFFSIDE CYLINDER ASSEMBLY	1
22	000-001-025	TUBING ASSEMBLY, 91"	1
21	012-012-027	TUBING ASSEMBLY, 25"	1
20	000-001-001	TUBING ASSEMBLY, 100"	2
19	012-012-071	TUBING ASSEMBLY, 100"	4
18	001-020-011	STRAIGHT, #8 JIC TO #8 JIC	6
17	012-012-008	TUBING ASSEMBLY, 22 1/2"	1
16	012-012-005	TUBING ASSEMBLY, 18 1/2"	1
15	001-020-046	TEE, BRANCH, #8 JIC TO #8 JIC TO #8 JIC	1
14	012-012-008	TUBING ASSEMBLY, 13"	1
13	015-000-024	TUBING ASSEMBLY, 23 3/4"	1
12	015-000-025	TUBING ASSEMBLY, 28 15/16"	1
11	001-020-019	STRAIGHT, #6 ODS TO #6 JIC	3
10	001-010-030	DIVERTER VALVE	1
9	001-020-017	ELBOW, 90°, #6 ODS TO #6 JIC	7
8	001-010-031	VALVE, VELOCITY FUSE, 4 GPM	2
7	001-010-005	BREATHER CAP	1
6	000-040-019	BOUL, 1/4-20 NC x 1 1/2	2
5	001-010-001	DOUBLE LINE CLIP	2
4	000-710-006	WASHER, FLAT (FENDER) 3/16 ID x 1 1/2 OD	2
3	000-000-005	NUT, LOCK, 1/4-20 NC	2
2	001-000-100	POWER UNIT, 4 HP, 1% SQUARE TANK	1

LMF-12, TP-15, TP-16 & TP-18 HYDRAULIC SYSTEM
(2012)
FILE: MAN501
DATE: 5/96

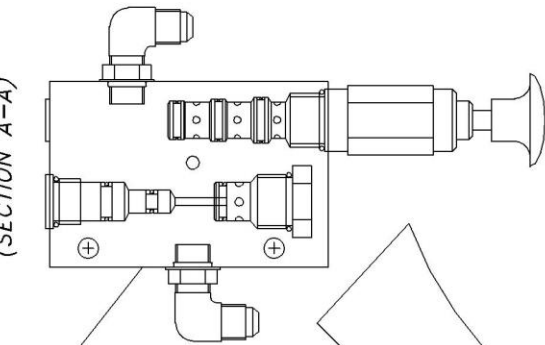
MAN504

LEFT SIDE VIEW:

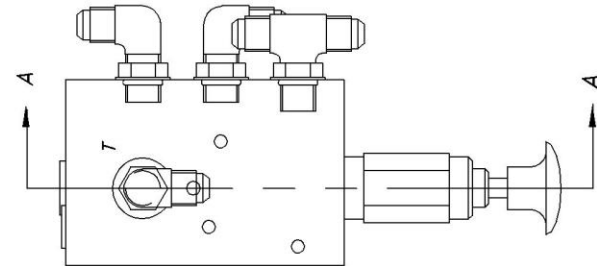


FRONT VIEW:

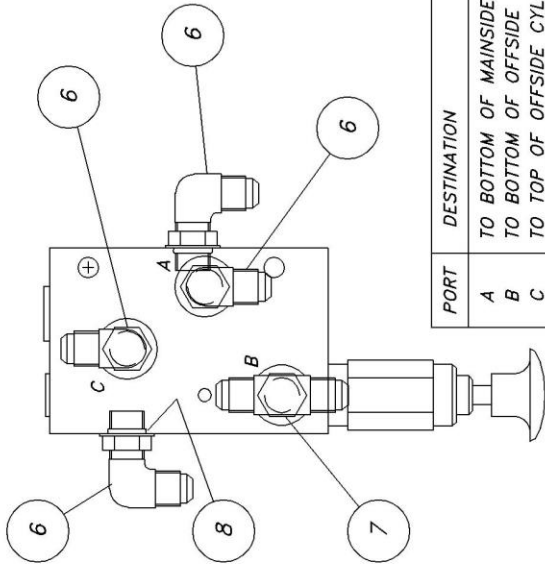
(SECTION A-A)



RIGHT SIDE VIEW:

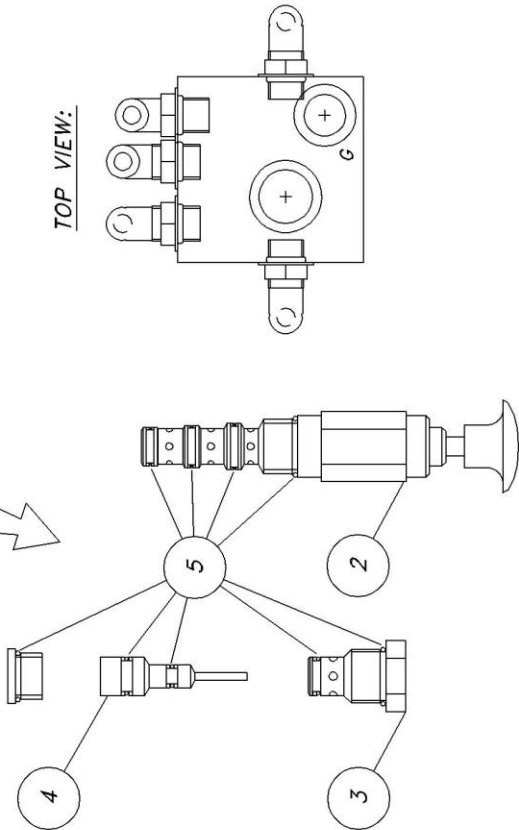


BACK VIEW:



PORT	DESTINATION
A	TO BOTTOM OF MAINSIDE CYLINDER
B	TO BOTTOM OF OFFSIDE CYLINDER
C	TO TOP OF OFFSIDE CYLINDER
P	TO PUMP PRESSURE PORT
T	TO TANK (RESERVOIR)

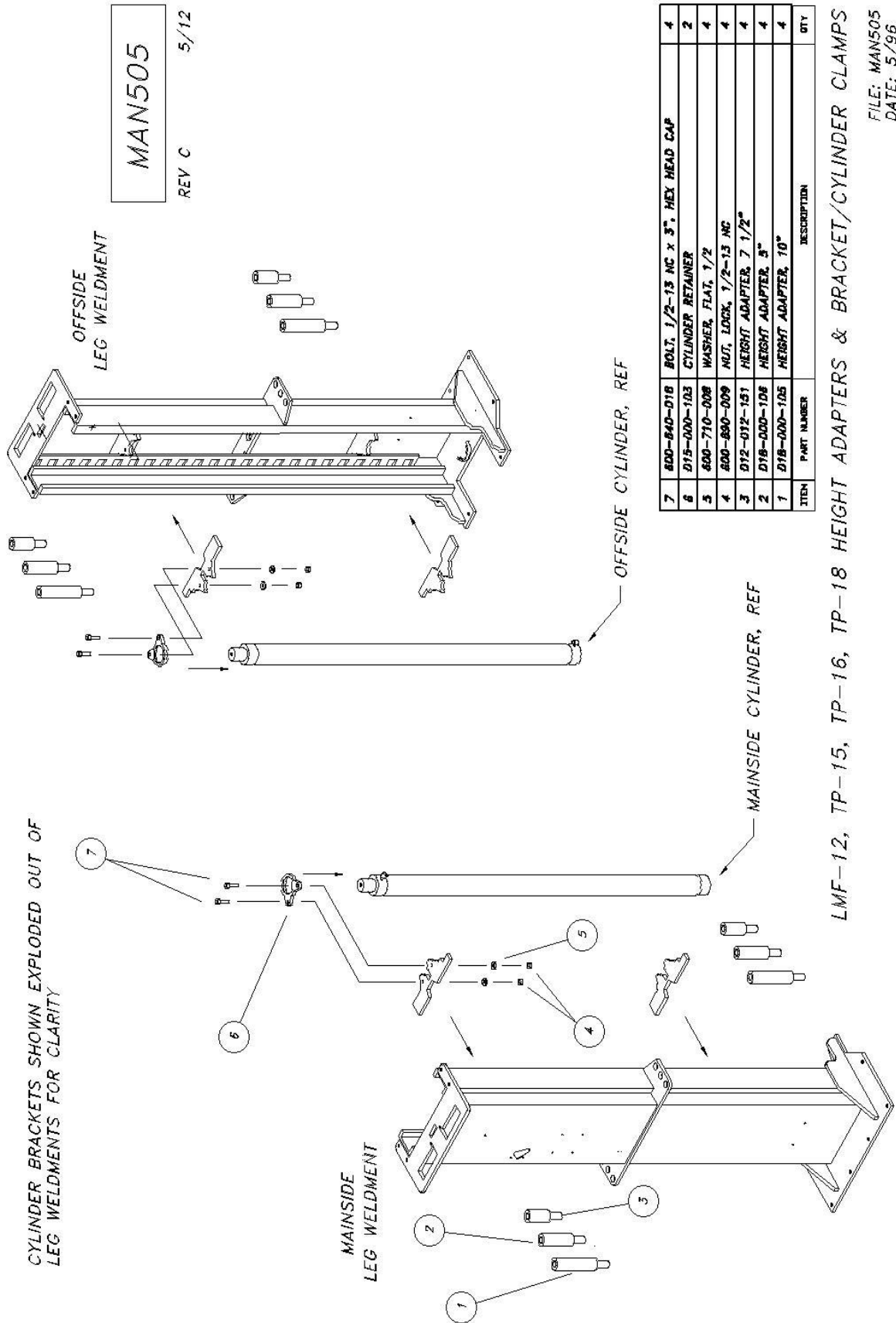
TOP VIEW:



ITEM	PART NUMBER	DESCRIPTION	QTY
8	601-030-017	O-RING	5
7	601-420-046	FITTING, TEE BRANCH, #6 JIC/ #6 JIC/ #6 ORB	1
6	601-420-017	FITTING, ELBOW, 90°, #6 ORB TO #6 JIC	4
5	212239ASK	SEAL REPAIR KIT	1
4	282247AA	PILOT PISTON ASSY	1
3	CV10-20-0-N-05	CHECK VALVE	1
2	MP10-42K-0-N	MANUAL PULL VALVE	1
1	601-410-030	DIVERTER VALVE	1

DIVERTER VALVE ASSEMBLY

FILE: MAN504
DATE 11/97

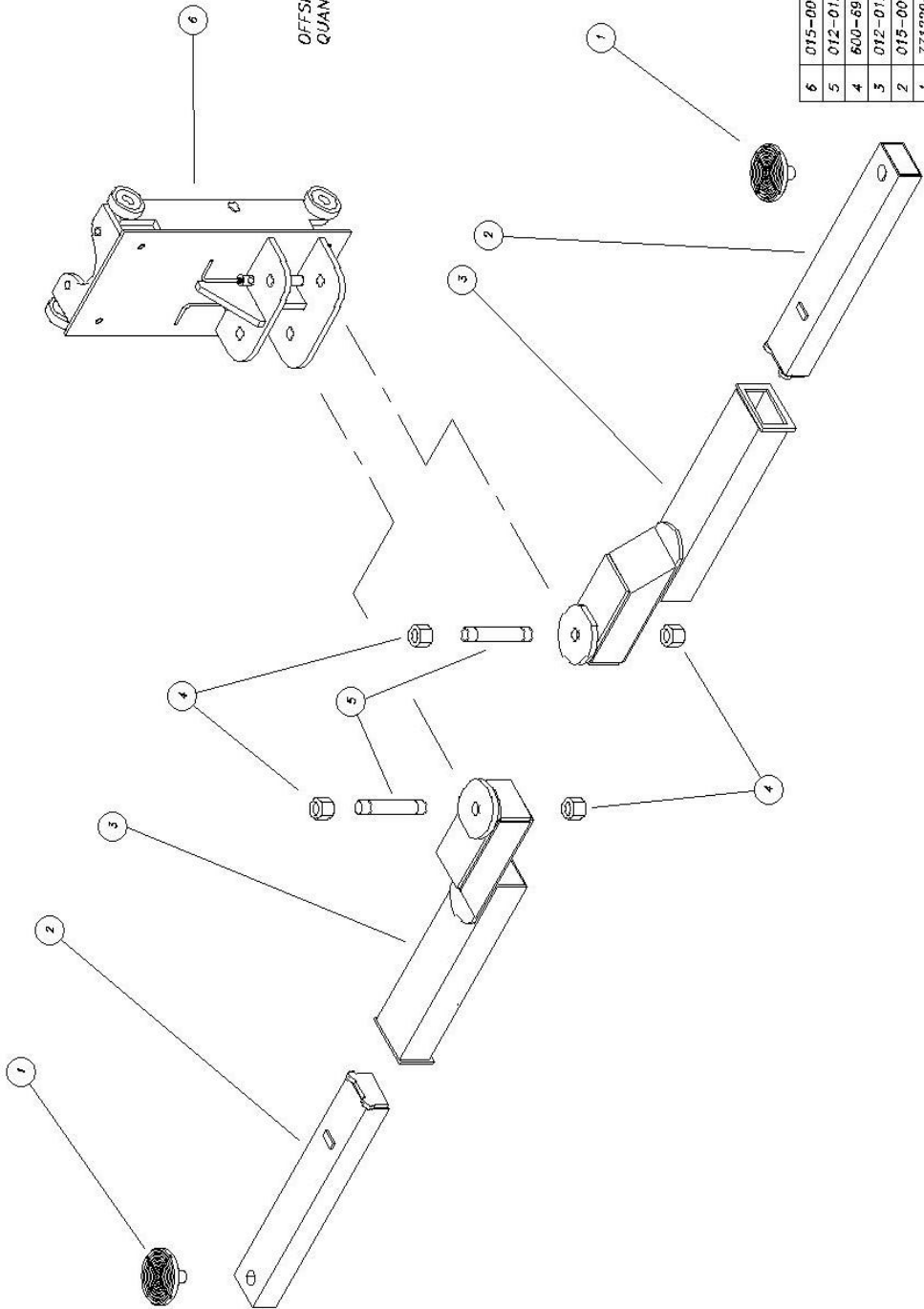


LMF-12, TP-15, TP-16, TP-18 HEIGHT ADAPTERS & BRACKET/CYLINDER CLAMPS

FILE: MAN505
DATE: 5/96

MAN506

REV C 6/2013

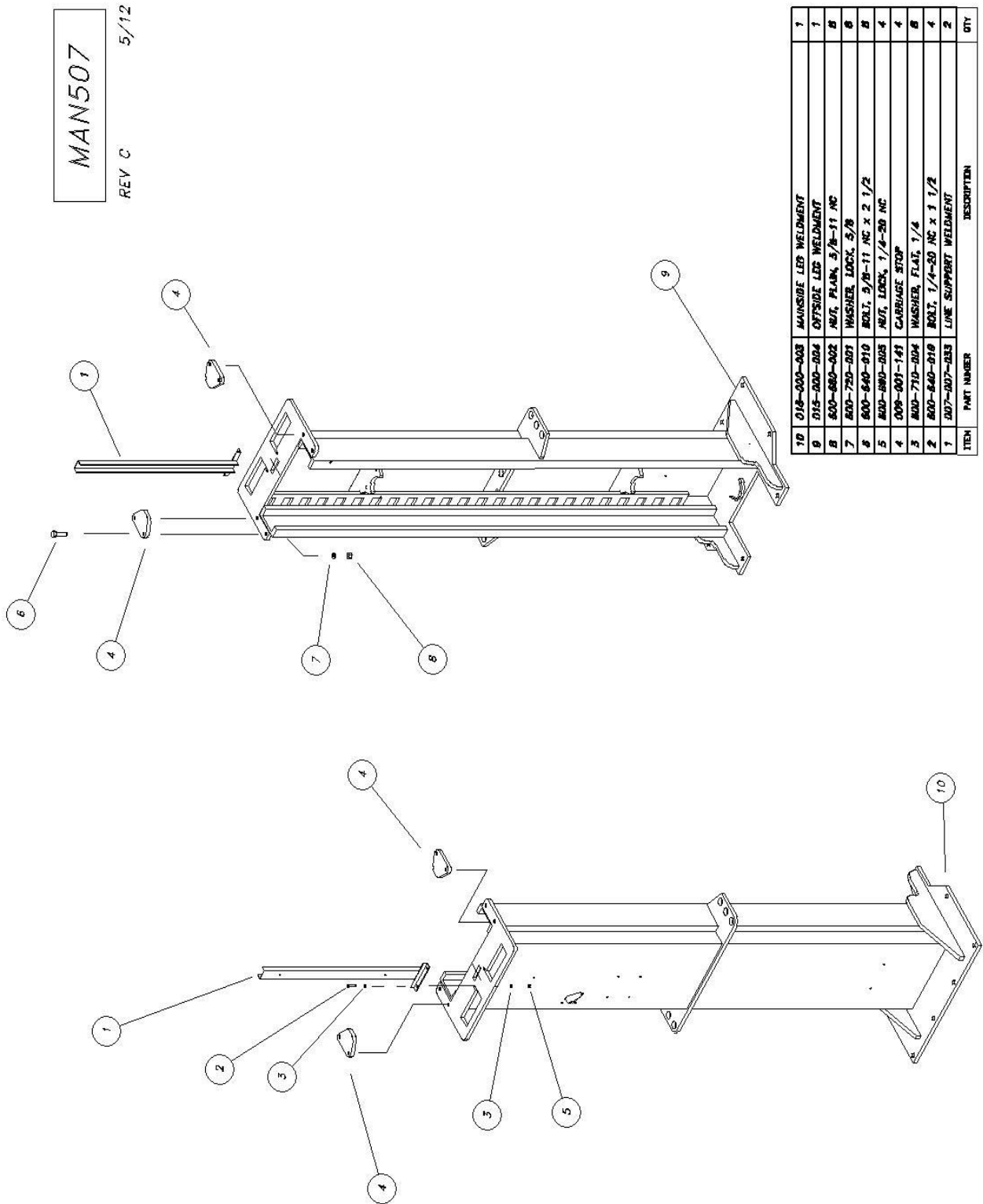


OFFSIDE CARRIAGE SHOWN
QUANTITIES ARE THE SAME FOR THE MAINSIDE

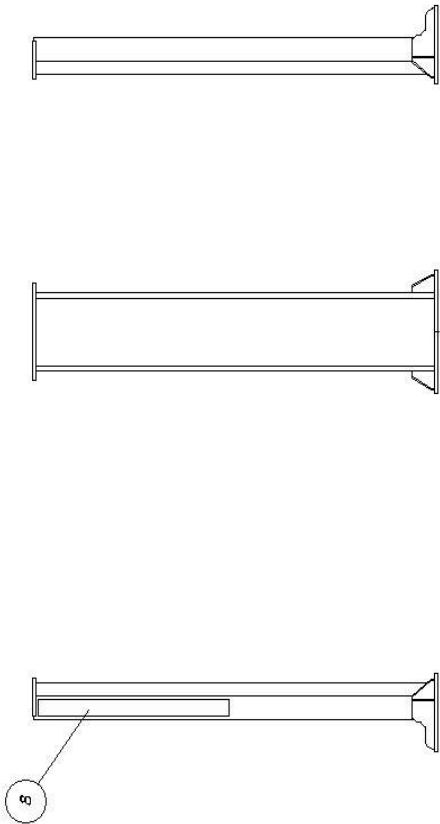
ITEM	PART NUMBER	DESCRIPTION	QTY
6	015-000-006	CARRIAGE ASSEMBLY	1
5	012-012-113	CARRIAGE PIN, 1 3/8 DIA x 11" LG	2
4	600-680-008	NUT, LOCK, 1 3/8-12 NF	4
3	012-012-013	SWING ARM WELDMENT ASSEMBLY	2
2	015-000-027	SLIDER WELDMENT	2
1	ZZ1229-P-002	LIFTING PAD WELDMENT	2

LMF-12, TP-15, TP-16, TP-18 CARRIAGE/SWING ARMS/SLIDERS/LIFTING PADS

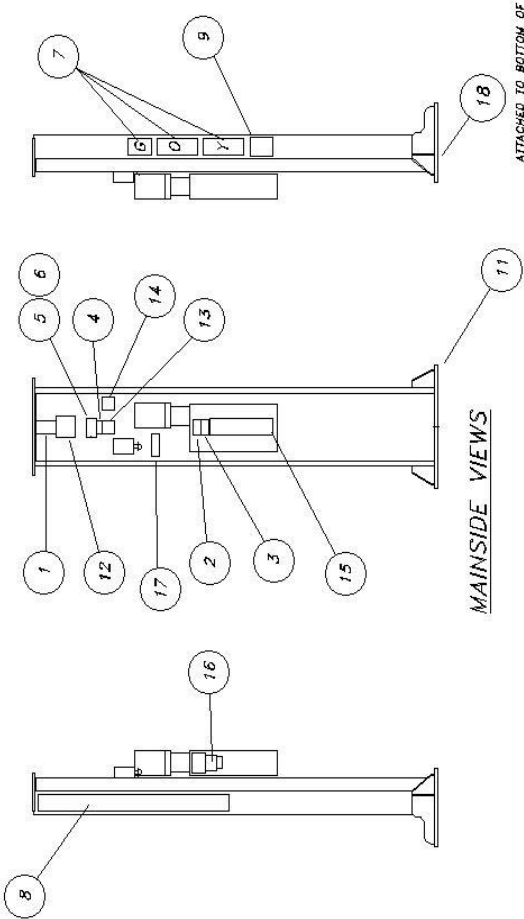
FILE: MAN506
DATE: 5/96



LMF-12, TP-15, TP-16, TP-18 LEG WELDMENTS/LINE SUPPORTS/CARRIAGE STOPS
FILE: MAN507
DATE: 5/96



OFFSIDE VIEWS



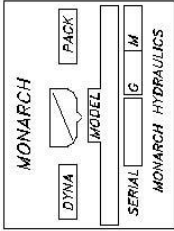
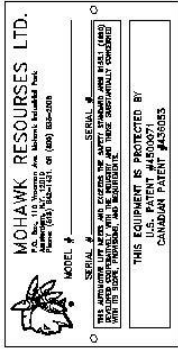
MAINSIDE VIEWS

MAN508

REV F 2/06

NOTES:

1. PLACE ITEM 5 IN POSITION SHOWN & MATCH DRILL (2) 3/32 DIA HOLES THRU BACK PLATE. SEE DETAIL A.



(MOHAWK SERIAL TAG)

(MONARCH POWER UNIT DECAL)

18	601-000-118	PACKING LIST ENVELOPE, 5 1/2 x 7 1/2	1
17	601-000-110	DECAL, WARNING, 2 1/2 x 6 1/2	3
16	---	MONARCH POWER UNIT DECAL	REF
15	601-000-107	"OPERATIONAL INSTRUCTIONS" DECAL	1
14	601-000-218	"SAFETY INSTRUCTIONS" DECAL	1
13	601-000-046	"AL/ETL CERTIFIED" DECAL, 5" x 3"	1
12	601-000-044	"MAXIMUM CAPACITY 3000 LBS" DECAL, 5" x 5"	1
12A	601-000-044	"MAXIMUM CAPACITY 3000 LBS" DECAL, 5" x 5"	1
12B	601-000-046	"MAXIMUM CAPACITY 3000 LBS" DECAL, 5" x 5"	1
12C	601-000-045	"MAXIMUM CAPACITY 3000 LBS" DECAL, 5" x 5"	1
11	615-000-007	MONARCH LEO ASSEMBLY	REF
10	615-000-002	OFFSIDE LEO ASSEMBLY	REF
9	601-000-006	"MAXIMUM SWING ARM CAPACITY, 1"	1
8	601-000-007	"MONARCH" DECAL, 3 3/8" x 4 1/4"	2
7	601-000-052	"CAUTION, WARNING, SAFETY" SET, 2" x 20 3/4"	1
6	600-000-007	SCREW, DRIVE, #4 x 1/4, MOUNT HEAD, TYPE D	2
5	601-000-026	"SERIAL, SPEC. PATENT", 2 7/16" x 4 9/16"	1
4	601-000-037	"AL/P PLATE, 1 1/2" x 5 1/4"	1
3	601-000-038	"CAUTION" DECAL, 3" x 5 1/2"	1
2	601-000-034	"WARNING" DECAL, 3" x 3 1/2"	1
1	601-000-050	"MADE IN AMERICA" DECAL, 5 1/8" x 5 3/16"	1
ITEM	PART NUMBER	DESCRIPTION	QTY

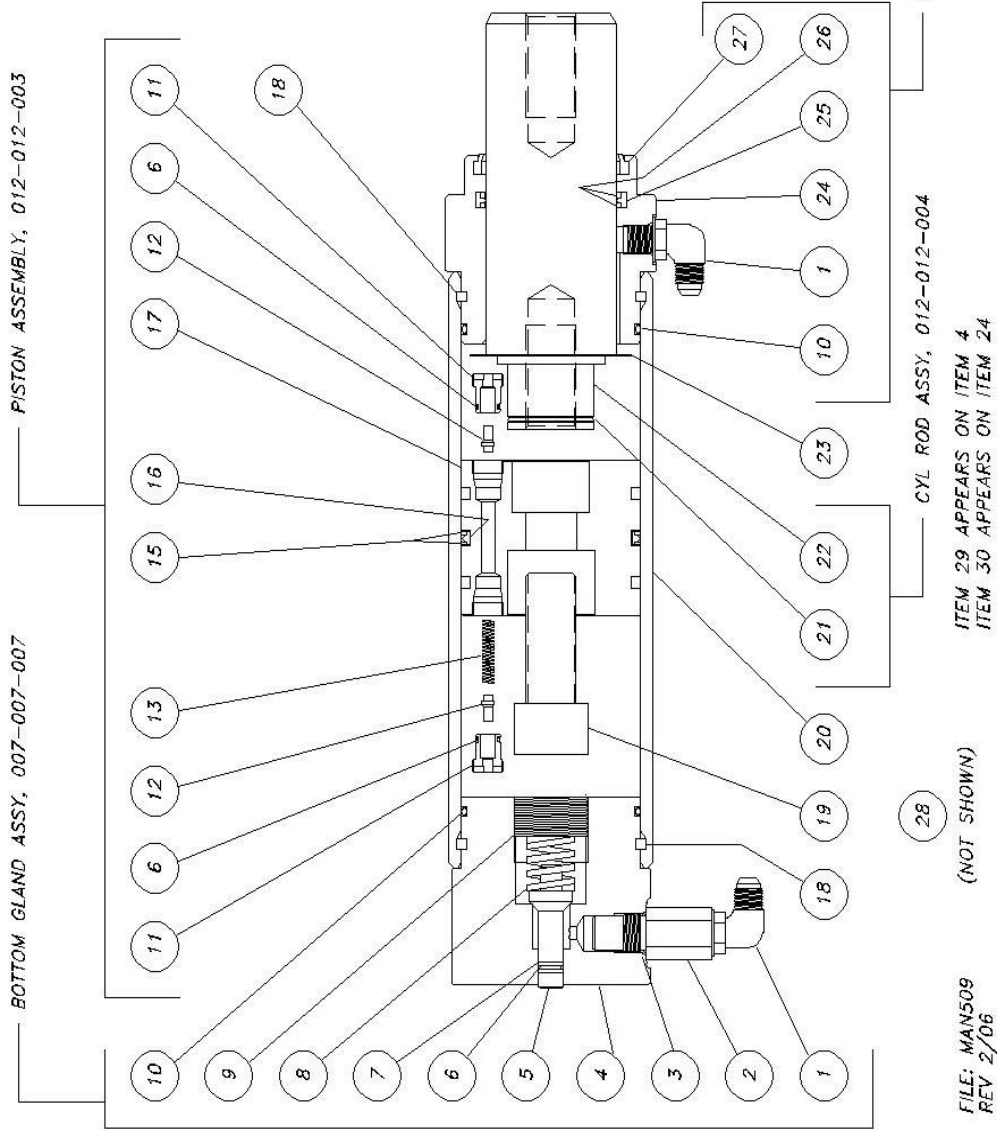
TAG & DECAL LOCATIONS
FILE: MAN508
DATE: 5/96

MAN509

ITEM	PART NUMBER	DESCRIPTION	QTY
1	601-420-017	FITTING, 90° ELBOW	2
2	601-410-031	VELOCITY FUSE -4	1
3	601-030-008	O-RING	REF
4	007-007-110	BOTTOM GLAND	1
5	009-010-113	INLET SPOOL	1
6	601-030-002	O-RING	3
7	601-060-003	BACK-UP RING	2
8	600-840-002	SPRING	1
9	007-007-145	SET SCREW	1
10	601-030-003	O-RING	2
11	009-001-153	RETAINER	2
12	009-001-152	SPOOL	2
13	600-840-009	SPRING	1
14			
15	601-060-013	BACK-UP	2
16	601-010-005	PISTON T-SEAL	1
17	012-012-102	PISTON	1
18	025-002-132	SPIN KEY	2
19	600-650-001	BOLT, SOCKET HEAD	1
20	012-012-101	BARREL	1
21	601-030-009	O-RING	1
22	012-012-103	ROD	1
23	007-007-143	WASHER	1
24	015-000-109	ROD GLAND	1
25	601-000-003	ROD T-SEAL	1
26	601-060-007	BACK-UP RING	2
27	601-020-003	ROD WIPER	1
28	601-420-001	CAP NUT	2
29	601-800-021	CAUTION DECAL	1
30	601-800-022	PATENT DECAL	1

LMF-12A, TP-15, TP-16, TP-18
MAINSIDE CYLINDER ASSEMBLY
(015-000-009)

ROD GLAND HOUSING ASSEMBLY, 015-000-011



MAN511

REV D10/01

BAG#2/ SHIMS (007-007-075)

ITEM 10

ITEM 7

ITEM 8

ITEM 9

ITEMS 1 THRU 9 = SMALL PARTS BAG & CONTENTS

ITEMS 12 THRU 14 = BAG #2/ SHIMS

11	600-710-006	WASHER, FLAT (FENDER) 5/16 ID x 1 1/2 OD	6
10	601-600-022	BAG, ZIP-LOK, TRANSPARENT, 9" x 12"	2
9	600-740-001	SHIM, HORSESHOE, PLASTIC, BLUE, 1/16" THK	8
8	600-740-002	SHIM, HORSESHOE, PLASTIC, RED, 1/8" THK	8
7	600-740-003	SHIM, HORSESHOE, PLASTIC, BLACK, 1/4" THK	8
6	601-420-011	UNION, #6 JIC TO #6 JIC	4
5	601-310-005	BREATHER CAP	1
4	601-710-001	DOUBLE LINE CLIP	6
3	600-640-019	BOLT, 1/4-20 NC x 1 1/2, HEX HEAD CAP	10
2	600-690-005	NUT, LOCK, 1/4-20 NC	10
1	600-710-004	WASHER, FLAT, 1/4	8
ITEM	PART NUMBER	DESCRIPTION	QTY

SMALL PARTS BAG & CONTENTS, AND BAG #2/SHIMS

FILE: MAN511

DATE: 5/96

SMALL PARTS BAG & CONTENTS (012-012-058)

ITEM 10

ITEM 4

ITEM 11

ITEM 3

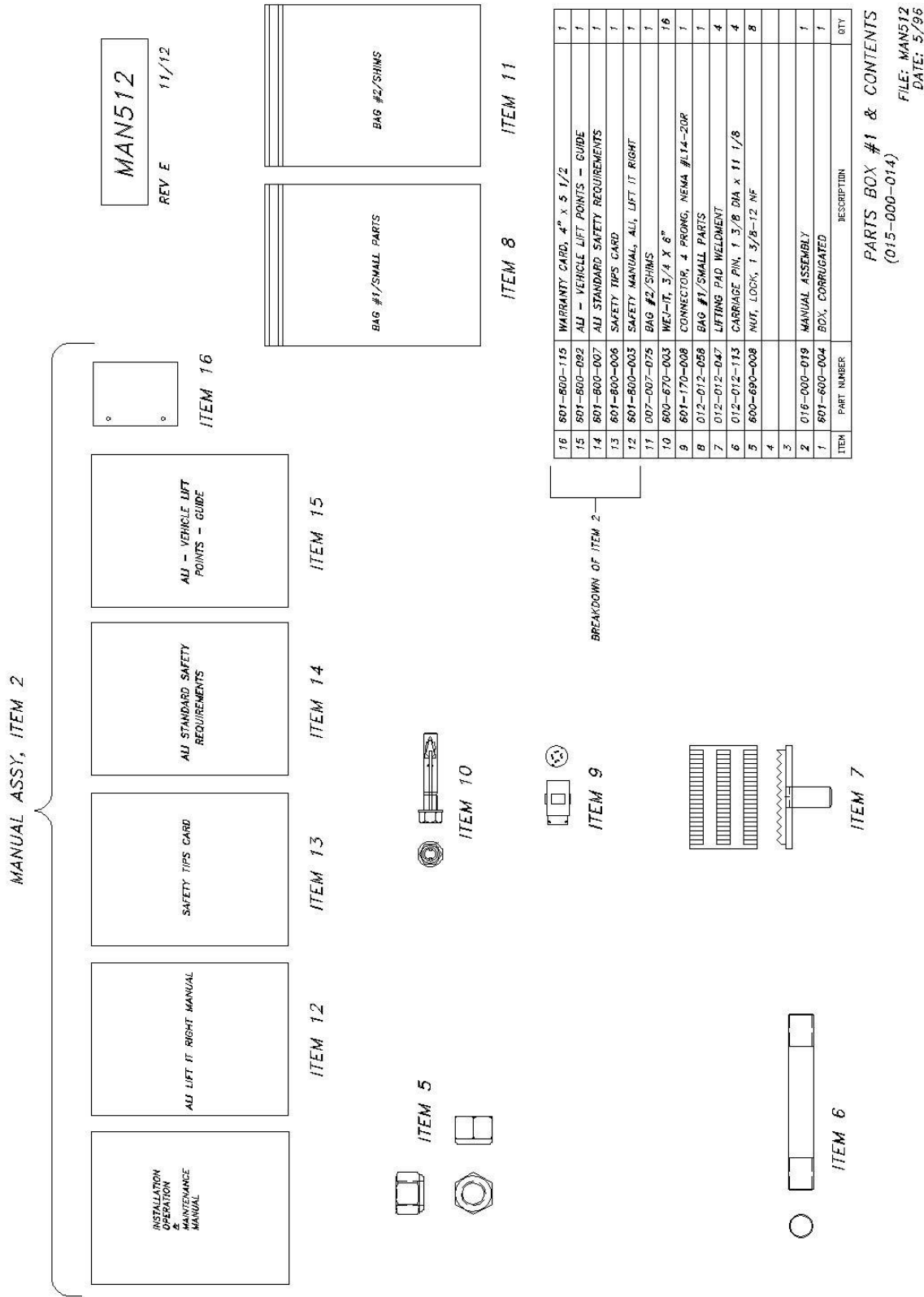
ITEM 5

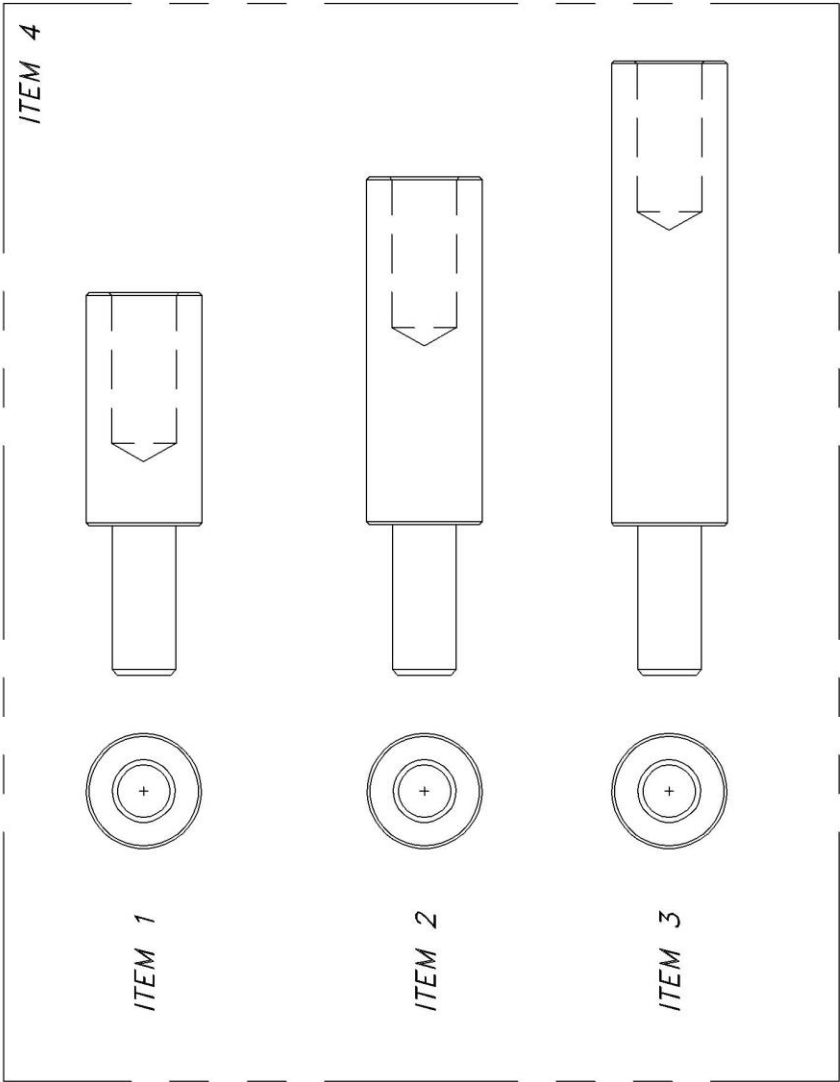
ITEM 6

ITEM 2

ITEM 1

47





MAN513

4	601-600-004	CARTON, CORRUGATED, 11" x 15" x 12 1/4	1
3	018-000-105	HEIGHT ADAPTER (10") 2 1/2 DIA x 13 3/8 LG	4
2	012-012-151	HEIGHT ADAPTER (7 1/2") 2 1/2 DIA x 10 7/8 LG	4
1	018-000-106	HEIGHT ADAPTER (5") 2 1/2 DIA x 8 3/8 LG	4
ITEM	PART NUMBER	DESCRIPTION	QTY

PARTS BOX #2
(012-012-057)

FILE: MAN513
DATE 5/96

MOHAWK

MODEL LMF-12 TP-15 TP-16 TP-18

SUPPLEMENTAL AIRLOCK PARTS

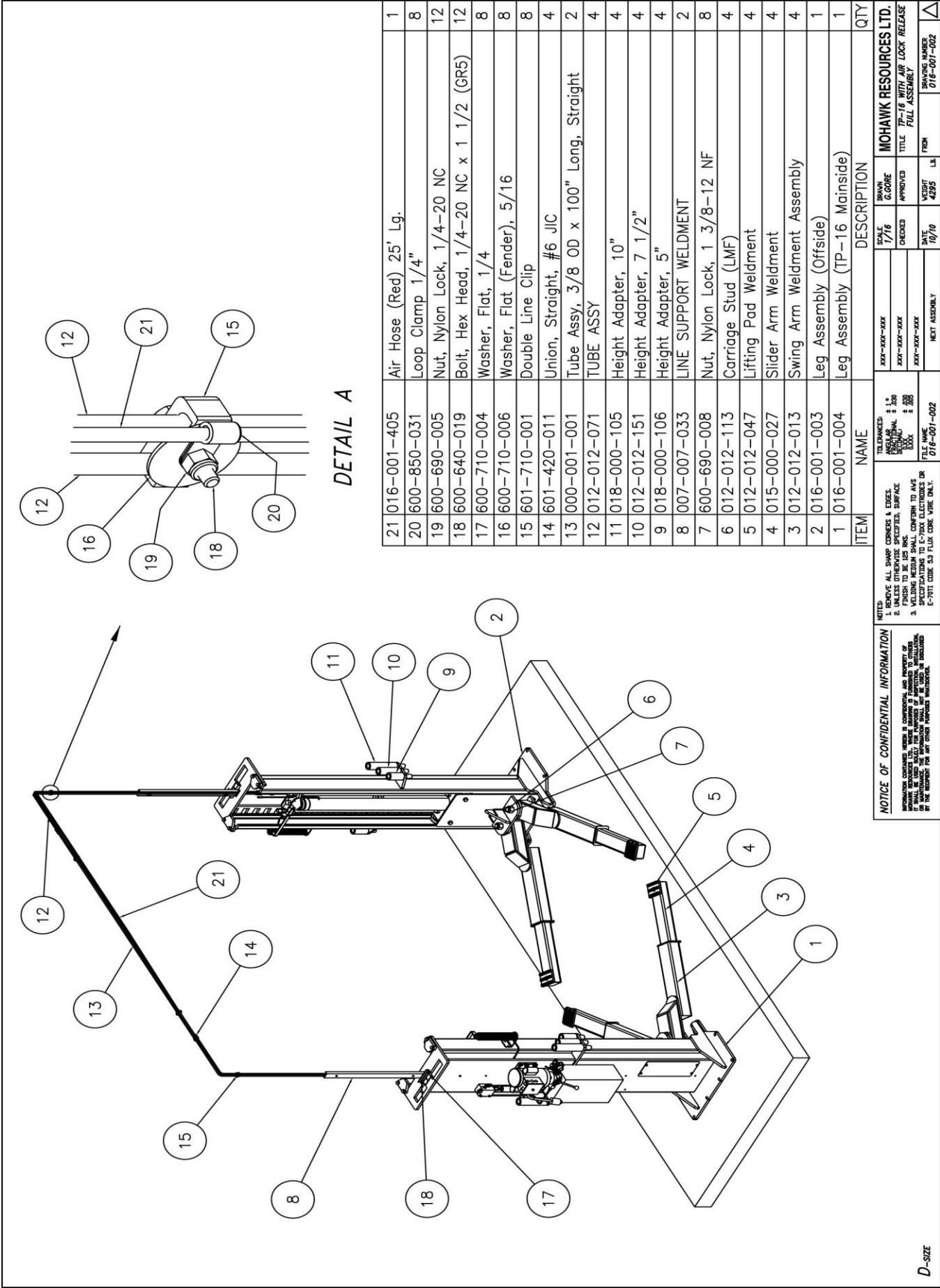


MOHAWK RESOURCES LTD.

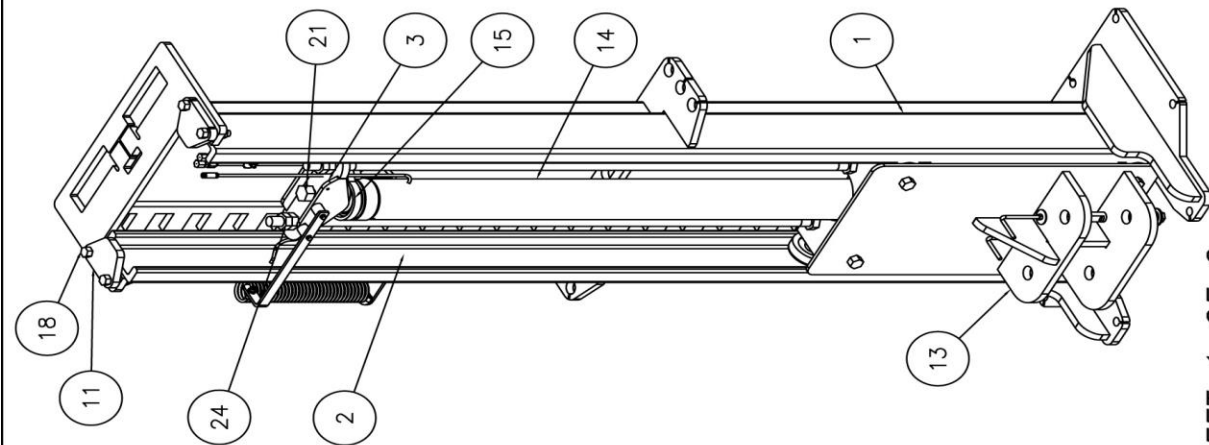
65 VROOMAN AVE.
AMSTERDAM, NY 12010
TOLL FREE: 1-800-833-2006
LOCAL: 1-518-842-1431

FAX: 1-518-842-1289

INTERNET: WWW.MOHAWKLIFTS.COM
E-MAIN: SERVICE@MOHAWKLIFTS



D-size



SHEET 1 OF 2

ITEM	NAME	DESCRIPTION	QTY
38	601-710-001	Double Line Clip	1
37	601-520-006	Union 90 Deg, 1/4 Tube to 1/4 Tube	1
36	601-420-011	Union, Straight, #6 JIC	2
35	601-420-001	Nut, Cop, 9/16-18 NF, #6 JIC	2
34	601-200-055	Air Fitting, 90 Deg, 1/4 Tube To 1/4 Tube	1
33	601-200-041	Air Tube Fitting, Straight Union, 1/4 Tube to 1/4 Tube	1
32	600-850-031	Loop Clamp 1/4"	3
31	600-720-011	Washer, Lock, 3/8	1
30	600-720-001	Washer, Lock, 5/8	4
29	600-710-008	Washer, Flat, 1/2	4
28	600-710-006	Washer, Flat (Fender), 5/16	1
27	600-710-004	Washer, Flat, 1/4	4
26	600-690-009	Nut, Nylon Lock, 1/2-13 NC	2
25	600-690-005	Nut, Nylon Lock, 1/4-20 NC	1
24	600-680-004	Nut, Plain, 1-14 NF	4
23	600-680-002	NUT, 5/8-11 NC	4
22	600-640-071	Bolt, Hex Head, 3/8-16 NC x 1" (GR5)	1
21	600-640-055	Bolt, Hex Head, 1-14 NF x 2 1/2 (GR8)	1
20	600-640-019	Bolt, Hex Head, 1/4-20 NC x 1 1/2 (GR5)	1
19	600-640-018	Bolt, Hex Head, 1/2-13 NC x 3" (GR5)	2
18	600-640-010	Bolt, Hex Head, 5/8-11 NC x 2 1/2 (GR5)	4
17	600-640-004	Bolt, Hex Head, 1/4-20 NC x 1" (GR5)	4
16	600-600-006	Screw, Slotted Round Head, #10-32 NF x 1/2 Lg	2
15	015-000-103	Cylinder Retainer	1
14	015-000-009	Mainside Cylinder Assembly	1
13	016-001-005	Carriage Assy w/ Airlock Release	1
12	012-012-027	TUBE ASSY	1
11	009-001-141	Carriage Stop	2
10	000-001-018	Tube Assy, 3/8 OD x 12" Long, Straight	1
9	016-001-404	Air Hose (Red) 28" Lg.	1
8	016-001-402	Air Hose (Red) 14" Lg.	1
7	016-001-401	Air Hose (Red) 87" Lg.	1
6	016-001-122	AIR HOSE GUIDE	1
5	016-001-113	ACCESS COVER	1
4	016-001-109	COIL TUBE (RED)	1
3	016-001-014	Yoke Weldment (Mainside)	1
2	016-001-012	UPPER TUBE BRACKET ASSEMBLY	1
1	016-001-010	Leg Weldment,OFFSIDE (Modified)	1

ITEM	NAME	DESCRIPTION	QTY
1	016-001-010	Leg Weldment,OFFSIDE (Modified)	1
2	016-001-012	UPPER TUBE BRACKET ASSEMBLY	1
3	016-001-014	Yoke Weldment (Mainside)	1
4	016-001-109	COIL TUBE (RED)	1
5	016-001-113	ACCESS COVER	1
6	016-001-122	AIR HOSE GUIDE	1
7	016-001-401	Air Hose (Red) 87" Lg.	1
8	016-001-402	Air Hose (Red) 14" Lg.	1
9	016-001-404	Air Hose (Red) 28" Lg.	1
10	000-001-018	Tube Assy, 3/8 OD x 12" Long, Straight	1
11	009-001-141	Carriage Stop	2
12	012-012-027	TUBE ASSY	1
13	016-001-005	Carriage Assy w/ Airlock Release	1
14	015-000-009	Mainside Cylinder Assembly	1
15	015-000-103	Cylinder Retainer	1
16	600-600-006	Screw, Slotted Round Head, #10-32 NF x 1/2 Lg	2
17	600-640-004	Bolt, Hex Head, 1/4-20 NC x 1" (GR5)	4
18	600-640-010	Bolt, Hex Head, 5/8-11 NC x 2 1/2 (GR5)	4
19	600-640-018	Bolt, Hex Head, 1/2-13 NC x 3" (GR5)	2
20	600-640-019	Bolt, Hex Head, 1/4-20 NC x 1 1/2 (GR5)	1
21	600-640-055	Bolt, Hex Head, 1-14 NF x 2 1/2 (GR8)	1
22	600-640-071	Bolt, Hex Head, 3/8-16 NC x 1" (GR5)	1
23	600-680-002	NUT, 5/8-11 NC	4
24	600-680-004	Nut, Plain, 1-14 NF	4
25	600-690-005	Nut, Nylon Lock, 1/4-20 NC	1
26	600-690-009	Nut, Nylon Lock, 1/2-13 NC	2
27	600-710-004	Washer, Flat, 1/4	4
28	600-710-006	Washer, Flat (Fender), 5/16	1
29	600-710-008	Washer, Flat, 1/2	4
30	600-720-001	Washer, Lock, 5/8	4
31	600-720-011	Washer, Lock, 3/8	1
32	600-850-031	Loop Clamp 1/4"	3
33	601-200-041	Air Tube Fitting, Straight Union, 1/4 Tube to 1/4 Tube	1
34	601-200-055	Air Fitting, 90 Deg, 1/4 Tube To 1/4 Tube	1
35	601-420-001	Nut, Cop, 9/16-18 NF, #6 JIC	2
36	601-420-011	Union, Straight, #6 JIC	2
37	601-520-006	Union 90 Deg, 1/4 Tube to 1/4 Tube	1
38	601-710-001	Double Line Clip	1

NOTICE OF CONFIDENTIAL INFORMATION
THIS DRAWING IS THE PROPERTY OF MOHAWK RESOURCES LTD. IT IS TO BE USED ONLY FOR THE PURPOSES OF FABRICATING AND ASSEMBLING THE EQUIPMENT SPECIFIED HEREIN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD.

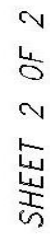
ITEM	NAME	DESCRIPTION	QTY
1	016-001-010	Leg Weldment,OFFSIDE (Modified)	1
2	016-001-012	UPPER TUBE BRACKET ASSEMBLY	1
3	016-001-014	Yoke Weldment (Mainside)	1
4	016-001-109	COIL TUBE (RED)	1
5	016-001-113	ACCESS COVER	1
6	016-001-122	AIR HOSE GUIDE	1
7	016-001-401	Air Hose (Red) 87" Lg.	1
8	016-001-402	Air Hose (Red) 14" Lg.	1
9	016-001-404	Air Hose (Red) 28" Lg.	1
10	000-001-018	Tube Assy, 3/8 OD x 12" Long, Straight	1
11	009-001-141	Carriage Stop	2
12	012-012-027	TUBE ASSY	1
13	016-001-005	Carriage Assy w/ Airlock Release	1
14	015-000-009	Mainside Cylinder Assembly	1
15	015-000-103	Cylinder Retainer	1
16	600-600-006	Screw, Slotted Round Head, #10-32 NF x 1/2 Lg	2
17	600-640-004	Bolt, Hex Head, 1/4-20 NC x 1" (GR5)	4
18	600-640-010	Bolt, Hex Head, 5/8-11 NC x 2 1/2 (GR5)	4
19	600-640-018	Bolt, Hex Head, 1/2-13 NC x 3" (GR5)	2
20	600-640-019	Bolt, Hex Head, 1/4-20 NC x 1 1/2 (GR5)	1
21	600-640-055	Bolt, Hex Head, 1-14 NF x 2 1/2 (GR8)	1
22	600-640-071	Bolt, Hex Head, 3/8-16 NC x 1" (GR5)	1
23	600-680-002	NUT, 5/8-11 NC	4
24	600-680-004	Nut, Plain, 1-14 NF	4
25	600-690-005	Nut, Nylon Lock, 1/4-20 NC	1
26	600-690-009	Nut, Nylon Lock, 1/2-13 NC	2
27	600-710-004	Washer, Flat, 1/4	4
28	600-710-006	Washer, Flat (Fender), 5/16	1
29	600-710-008	Washer, Flat, 1/2	4
30	600-720-001	Washer, Lock, 5/8	4
31	600-720-011	Washer, Lock, 3/8	1
32	600-850-031	Loop Clamp 1/4"	3
33	601-200-041	Air Tube Fitting, Straight Union, 1/4 Tube to 1/4 Tube	1
34	601-200-055	Air Fitting, 90 Deg, 1/4 Tube To 1/4 Tube	1
35	601-420-001	Nut, Cop, 9/16-18 NF, #6 JIC	2
36	601-420-011	Union, Straight, #6 JIC	2
37	601-520-006	Union 90 Deg, 1/4 Tube to 1/4 Tube	1
38	601-710-001	Double Line Clip	1

ITEM	NAME	DESCRIPTION	QTY
1	016-001-010	Leg Weldment,OFFSIDE (Modified)	1
2	016-001-012	UPPER TUBE BRACKET ASSEMBLY	1
3	016-001-014	Yoke Weldment (Mainside)	1
4	016-001-109	COIL TUBE (RED)	1
5	016-001-113	ACCESS COVER	1
6	016-001-122	AIR HOSE GUIDE	1
7	016-001-401	Air Hose (Red) 87" Lg.	1
8	016-001-402	Air Hose (Red) 14" Lg.	1
9	016-001-404	Air Hose (Red) 28" Lg.	1
10	000-001-018	Tube Assy, 3/8 OD x 12" Long, Straight	1
11	009-001-141	Carriage Stop	2
12	012-012-027	TUBE ASSY	1
13	016-001-005	Carriage Assy w/ Airlock Release	1
14	015-000-009	Mainside Cylinder Assembly	1
15	015-000-103	Cylinder Retainer	1
16	600-600-006	Screw, Slotted Round Head, #10-32 NF x 1/2 Lg	2
17	600-640-004	Bolt, Hex Head, 1/4-20 NC x 1" (GR5)	4
18	600-640-010	Bolt, Hex Head, 5/8-11 NC x 2 1/2 (GR5)	4
19	600-640-018	Bolt, Hex Head, 1/2-13 NC x 3" (GR5)	2
20	600-640-019	Bolt, Hex Head, 1/4-20 NC x 1 1/2 (GR5)	1
21	600-640-055	Bolt, Hex Head, 1-14 NF x 2 1/2 (GR8)	1
22	600-640-071	Bolt, Hex Head, 3/8-16 NC x 1" (GR5)	1
23	600-680-002	NUT, 5/8-11 NC	4
24	600-680-004	Nut, Plain, 1-14 NF	4
25	600-690-005	Nut, Nylon Lock, 1/4-20 NC	1
26	600-690-009	Nut, Nylon Lock, 1/2-13 NC	2
27	600-710-004	Washer, Flat, 1/4	4
28	600-710-006	Washer, Flat (Fender), 5/16	1
29	600-710-008	Washer, Flat, 1/2	4
30	600-720-001	Washer, Lock, 5/8	4
31	600-720-011	Washer, Lock, 3/8	1
32	600-850-031	Loop Clamp 1/4"	3
33	601-200-041	Air Tube Fitting, Straight Union, 1/4 Tube to 1/4 Tube	1
34	601-200-055	Air Fitting, 90 Deg, 1/4 Tube To 1/4 Tube	1
35	601-420-001	Nut, Cop, 9/16-18 NF, #6 JIC	2
36	601-420-011	Union, Straight, #6 JIC	2
37	601-520-006	Union 90 Deg, 1/4 Tube to 1/4 Tube	1
38	601-710-001	Double Line Clip	1

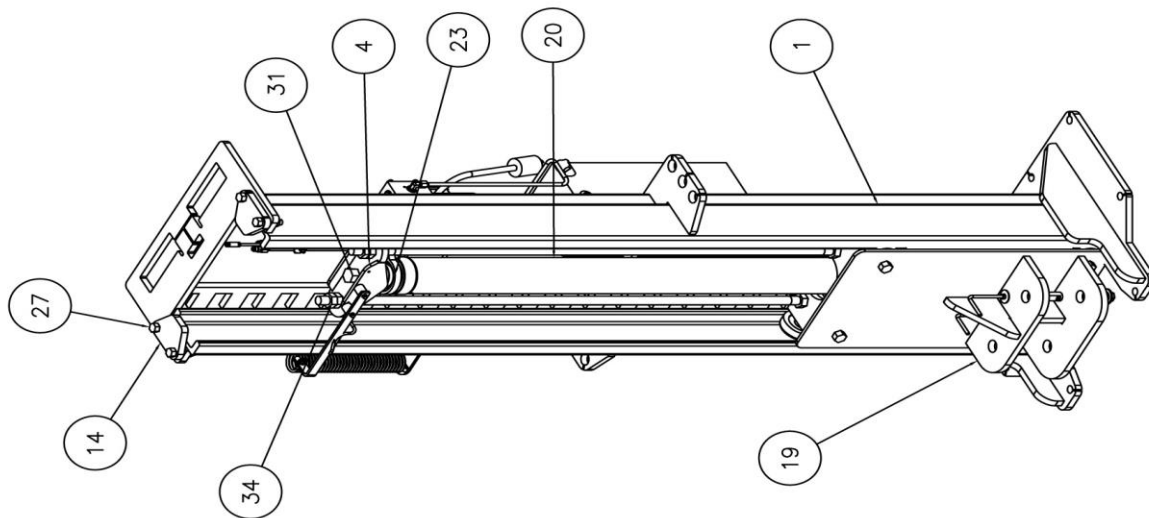
ITEM	NAME	DESCRIPTION	QTY
1	016-001-010	Leg Weldment,OFFSIDE (Modified)	1
2	016-001-012	UPPER TUBE BRACKET ASSEMBLY	1
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5	016-001-113	ACCESS COVER	1
6	016-001-122	AIR HOSE GUIDE	1
7	016-001-401	Air Hose (Red) 87" Lg.	1
8	016-001-402	Air Hose (Red) 14" Lg.	1
9	016-001-404	Air Hose (Red) 28" Lg.	1
10	000-001-018	Tube Assy, 3/8 OD x 12" Long, Straight	1
11	009-001-141	Carriage Stop	2
12	012-012-027	TUBE ASSY	1
13	016-001-005	Carriage Assy w/ Airlock Release	1
14	015-000-009	Mainside Cylinder Assembly	1
15	015-000-103	Cylinder Retainer	1
16	600-600-006	Screw, Slotted Round Head, #10-32 NF x 1/2 Lg	2
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18	600-640-010	Bolt, Hex Head, 5/8-11 NC x 2 1/2 (GR5)	4
19	600-640-018	Bolt, Hex Head, 1/2-13 NC x 3" (GR5)	2
20	600-640-019	Bolt, Hex Head, 1/4-20 NC x 1 1/2 (GR5)	1
21	600-640-055	Bolt, Hex Head, 1-14 NF x 2 1/2 (GR8)	1
22	600-640-071	Bolt, Hex Head, 3/8-16 NC x 1" (GR5)	1
23	600-680-002	NUT, 5/8-11 NC	4
24	600-680-004	Nut, Plain, 1-14 NF	4
25	600-690-005	Nut, Nylon Lock, 1/4-20 NC	1
26	600-690-009	Nut, Nylon Lock, 1/2-13 NC	2
27	600-710-004	Washer, Flat, 1/4	4
28	600-710-006	Washer, Flat (Fender), 5/16	1
29	600-710-008	Washer, Flat, 1/2	4
30	600-720-001	Washer, Lock, 5/8	4
31	600-720-011	Washer, Lock, 3/8	1
32	600-850-031	Loop Clamp 1/4"	3
33	601-200-041	Air Tube Fitting, Straight Union, 1/4 Tube to 1/4 Tube	1
34	601-200-055	Air Fitting, 90 Deg, 1/4 Tube To 1/4 Tube	1
35	601-420-001	Nut, Cop, 9/16-18 NF, #6 JIC	2
36	601-420-011	Union, Straight, #6 JIC	2
37	601-520-006	Union 90 Deg, 1/4 Tube to 1/4 Tube	1
38	601-710-001	Double Line Clip	1

ITEM	NAME	DESCRIPTION	QTY
1	016-001-010	Leg Weldment,OFFSIDE (Modified)	1
2	016-001-012	UPPER TUBE BRACKET ASSEMBLY	1
3	016-001-014	Yoke Weldment (Mainside)	1
4	016-001-109	COIL TUBE (RED)	1
5	016-001-113	ACCESS COVER	1
6	016-001-122	AIR HOSE GUIDE	1
7	016-001-401	Air Hose (Red) 87" Lg.	1
8	016-001-402	Air Hose (Red) 14" Lg.	1
9	016-001-404	Air Hose (Red) 28" Lg.	1
10	000-001-018	Tube Assy, 3/8 OD x 12" Long, Straight	1
11	009-001-141	Carriage Stop	2
12	012-012-027	TUBE ASSY	1
13	016-001-005	Carriage Assy w/ Airlock Release	1
14	015-000-009	Mainside Cylinder Assembly	1
15	015-000-103	Cylinder Retainer	1
16	600-600-006	Screw, Slotted Round Head, #10-32 NF x 1/2 Lg	2
17	600-640-004	Bolt, Hex Head, 1/4-20 NC x 1" (GR5)	4
18	600-640-010	Bolt, Hex Head, 5/8-11 NC x 2 1/2 (GR5)	4
19	600-640-018	Bolt, Hex Head, 1/2-13 NC x 3" (GR5)	2
20	600-640-019	Bolt, Hex Head, 1/4-20 NC x 1 1/2 (GR5)	1
21	600-640-055	Bolt, Hex Head, 1-14 NF x 2 1/2 (GR8)	1
22	600-640-071	Bolt, Hex Head, 3/8-16 NC x 1" (GR5)	1
23	600-680-002	NUT, 5/8-11 NC	4
24	600-680-004	Nut, Plain, 1-14 NF	4
25	600-690-005	Nut, Nylon Lock, 1/4-20 NC	1
26	600-690-009	Nut, Nylon Lock, 1/2-13 NC	2
27	600-710-004	Washer, Flat, 1/4	4
28	600-710-006	Washer, Flat (Fender), 5/16	1
29	600-710-008	Washer, Flat, 1/2	4
30	600-720-001	Washer, Lock, 5/8	4
31	600-720-011	Washer, Lock, 3/8	1
32	600-850-031	Loop Clamp 1/4"	3
33	601-200-041	Air Tube Fitting, Straight Union, 1/4 Tube to 1/4 Tube	1
34	601-200-055	Air Fitting, 90 Deg, 1/4 Tube To 1/4 Tube	1
35	601-420-001	Nut, Cop, 9/16-18 NF, #6 JIC	2
36	601-420-011	Union, Straight, #6 JIC	2
37	601-520-006	Union 90 Deg, 1/4 Tube to 1/4 Tube	1
38	601-710-001	Double Line Clip	1

ITEM	NAME	DESCRIPTION	QTY
1	016-001-010	Leg Weldment,OFFSIDE (Modified)	1
2	016-001-012	UPPER TUBE BRACKET ASSEMBLY	1
3	016-001-014	Yoke Weldment (Mainside)	1
4	016-001-109	COIL TUBE (RED)	1
5	016-001-113	ACCESS COVER	1
6	016-001-122	AIR HOSE GUIDE	1
7	016-001-401	Air Hose (Red) 87" Lg.	1
8	016-001-402	Air Hose (Red) 14" Lg.	1
9			



NOTICE OF CONFIDENTIAL INFORMATION		TELEMARKETS		MOHAWK RESOURCES LTD.	
<p>1. REMOVE ALL SHARP CORNERS & EDGES.</p> <p>2. REPAIR/REPLACE DAMAGED SURFACE.</p> <p>3. FILL CRACKS TO 1/32" MAXIMUM.</p> <p>4. VELDING KEVIN SMALL CONTAINS TO AHS SPECIFICATIONS TO E-70XX ALUMINUMS.</p> <p>E-70XX COE 53 FLUX CORE WIRE ONLY.</p>		<p>DATE: 10/10/03</p> <p>FILE NAME: 016-001-003</p>		<p>DATE: 10/10/03</p> <p>FILE NAME: 016-001-003</p>	
<p>MOHAWK GARDEN CENTER A CONTINGUAL AND PARTNER OF MOHAWK RESOURCES LTD. THIS DRAWING IS ISSUED TO MOHAWK RESOURCES LTD. FOR THE PURPOSE OF CONSTRUCTION OF THE MOHAWK GARDEN CENTER. THE DRAWING SHALL NOT BE REPRODUCED OR COPIED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD.</p>		<p>DATE: 10/10/03</p> <p>FILE NAME: 016-001-003</p>		<p>DATE: 10/10/03</p> <p>FILE NAME: 016-001-003</p>	

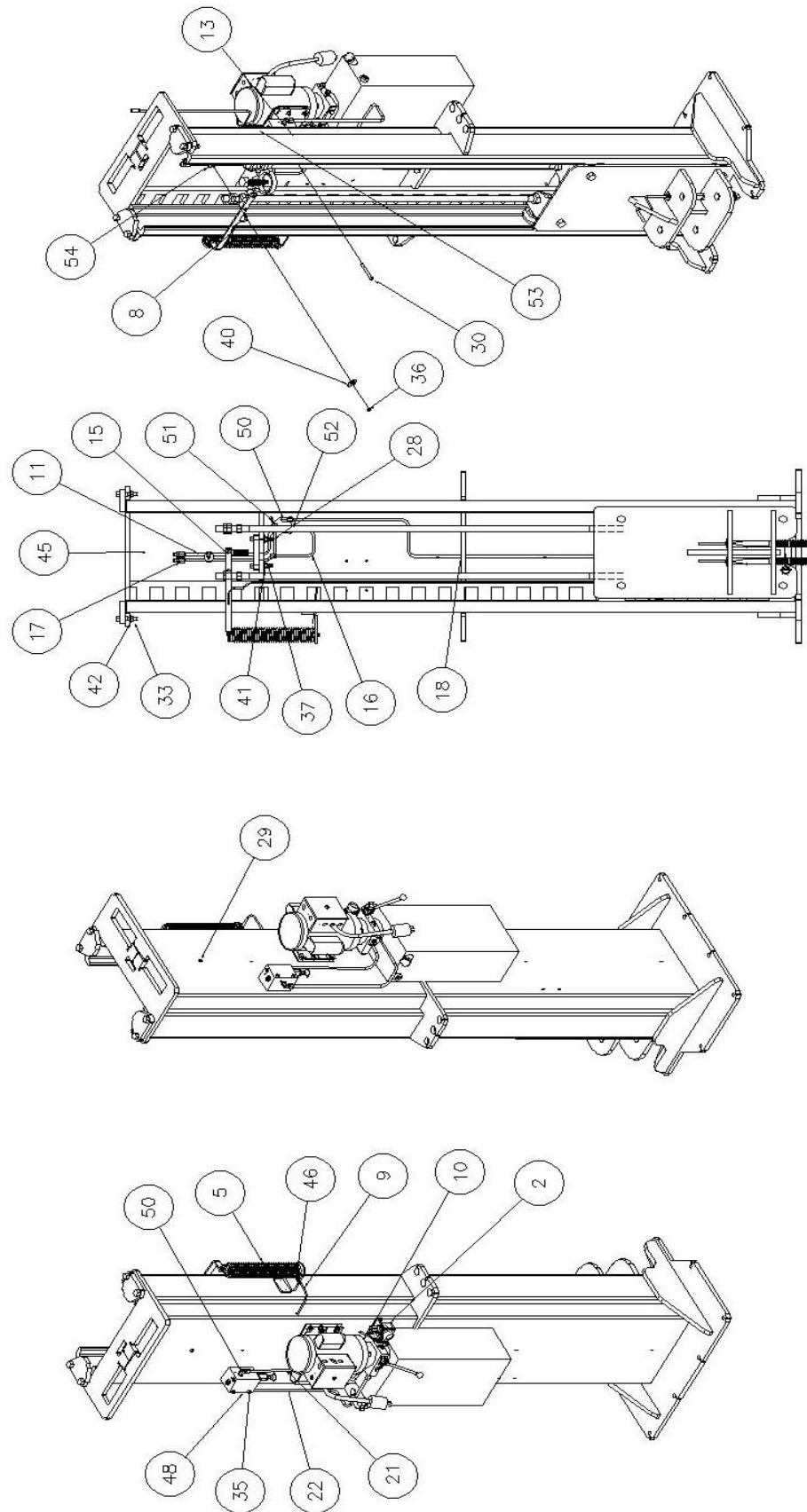


SHEET 1 OF 2

D-SIZE

ITEM	NAME	DESCRIPTION				QTY
ITEM	NAME	ITEM NUMBER	SIZE I/F	SWAY GRADE	APPROVED	TITLE
54	601-710-001	Double Line Clip				1
53	601-520-004	Union Tee, 1/4 Tube All				1
52	601-420-046	Tee, #6 ORB to #6 JIC (Branch)				1
51	601-420-019	Straight, #6 ORB to #6 JIC				3
50	601-420-017	Elbow, 90 Deg, #6 ORB to #6 JIC				3
49	601-420-011	Union, Straight, #6 JIC				2
48	601-410-030	Diverter Valve Assembly				1
47	601-300-100	Power Unit Assembly, Standard, 1P-15, 2 1/2 HP, Single Phase				1
46	601-200-055	Air Fitting, 90 Deg, 1/4 Tube To 1/4 Tube				1
45	601-200-041	Air Tube Fitting, Straight Union, 1/4 Tube to 1/4 Tube				1
44	600-850-031	Loop Clamp 1/4"				3
43	600-720-011	Washer, Lock, 3/8				1
42	600-720-001	Washer, Lock, 5/8				4
41	600-710-008	Washer, Flat, 1/2				4
40	600-710-006	Washer, Flat (Fender), 5/16				1
39	600-710-004	Washer, Flat, 1/4				4
38	600-710-003	Washer, Flat, 5/16				4
37	600-690-009	Nut, Nylon Lock, 1/2-13 NC				2
36	600-690-005	Nut, Nylon Lock, 1/4-20 NC				1
35	600-690-001	Nut, Nylon Lock, 5/16-18 NC				6
34	600-680-004	Nut, Plain, 1-14 NF				4
33	600-680-002	NUT, 5/8-11 NC				4
32	600-640-071	Bolt, Hex Head, 3/8-16 NC x 1" (GR5)				1
31	600-640-055	Bolt, Hex Head, 1-14 NF x 2 1/2 (GR8)				1
30	600-640-020	Bolt, Hex Head, 5/16-18 NC x 3 1/2 Lg (Gr 5)				2
29	600-640-019	Bolt, Hex Head, 1/4-20 NC x 1 1/2 (GR5)				1
28	600-640-018	Bolt, Hex Head, 1/2-13 NC x 3" (GR5)				2
27	600-640-010	Bolt, Hex Head, 5/8-11 NC x 2 1/2 (GR5)				4
26	600-640-004	Bolt, Hex Head, 1/4-20 NC x 1" (GR5)				4
25	600-640-002	Bolt, Hex Head, 5/16-18 NC x 1 1/2 (GB5)				4
24	600-600-006	Screw, Slotted Round Head, #10-32 NF x 1/2 Lg				2
23	015-000-103	Cylinder Retainer				1
22	015-000-025	TUBE ASSY				1
21	015-000-024	TUBE ASSY				1
20	015-000-009	Maindrive Cylinder Assembly				1
19	016-001-005	Carriage Assy w/ Airlock Release				1
18	012-012-070	TUBE ASSY				1
17	012-012-069	TUBE ASSY				1
16	012-012-068	TUBE ASSY				1
15	012-012-065	TUBE ASSY				1
14	009-001-141	Carriage Stop				2
13	007-007-174	Rubber Pad				1
12	007-007-146	Cam Spacer (Carriage)				4
11	016-001-404	Air Hose (Red) 28" Lg.				1
10	016-001-403	Air Hose (Red) 16" Lg.				1
9	016-001-402	Air Hose (Red) 14" Lg.				1
8	016-001-401	Air Hose (Red) 87" Lg.				1
7	016-001-122	AIR HOSE GUIDE				1
6	016-001-113	ACCESS COVER				1
5	016-001-109	COIL TUBE (RED)				1
4	016-001-014	Yoke Weldment (Mainside)				1
3	016-001-012	UPPER TUBE BRACKET ASSEMBLY				1
2	016-001-011	Air Valve/Regulator Assembly				1
1	016-001-009	Leg Weldment, Mainside (Modified)				1
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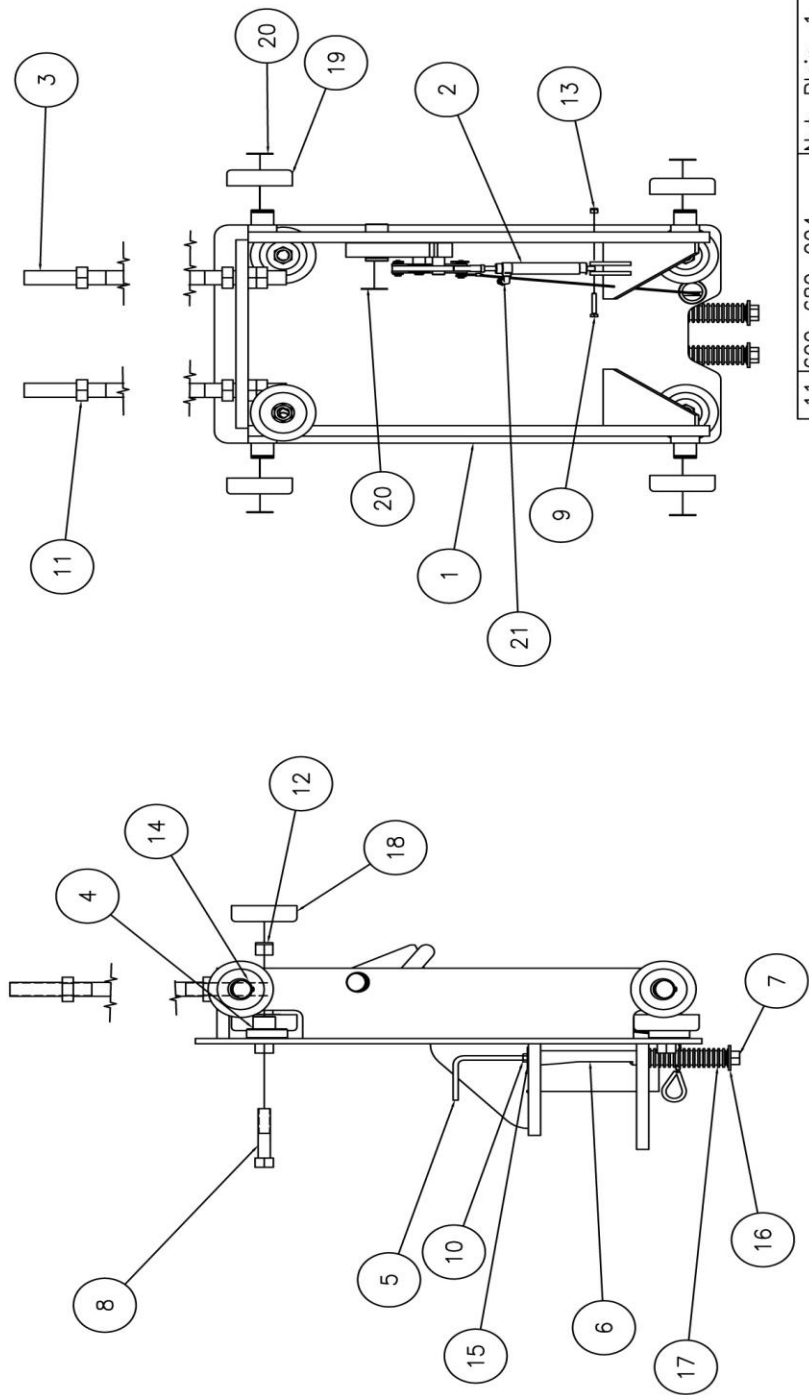
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SHEET 2 OF 2

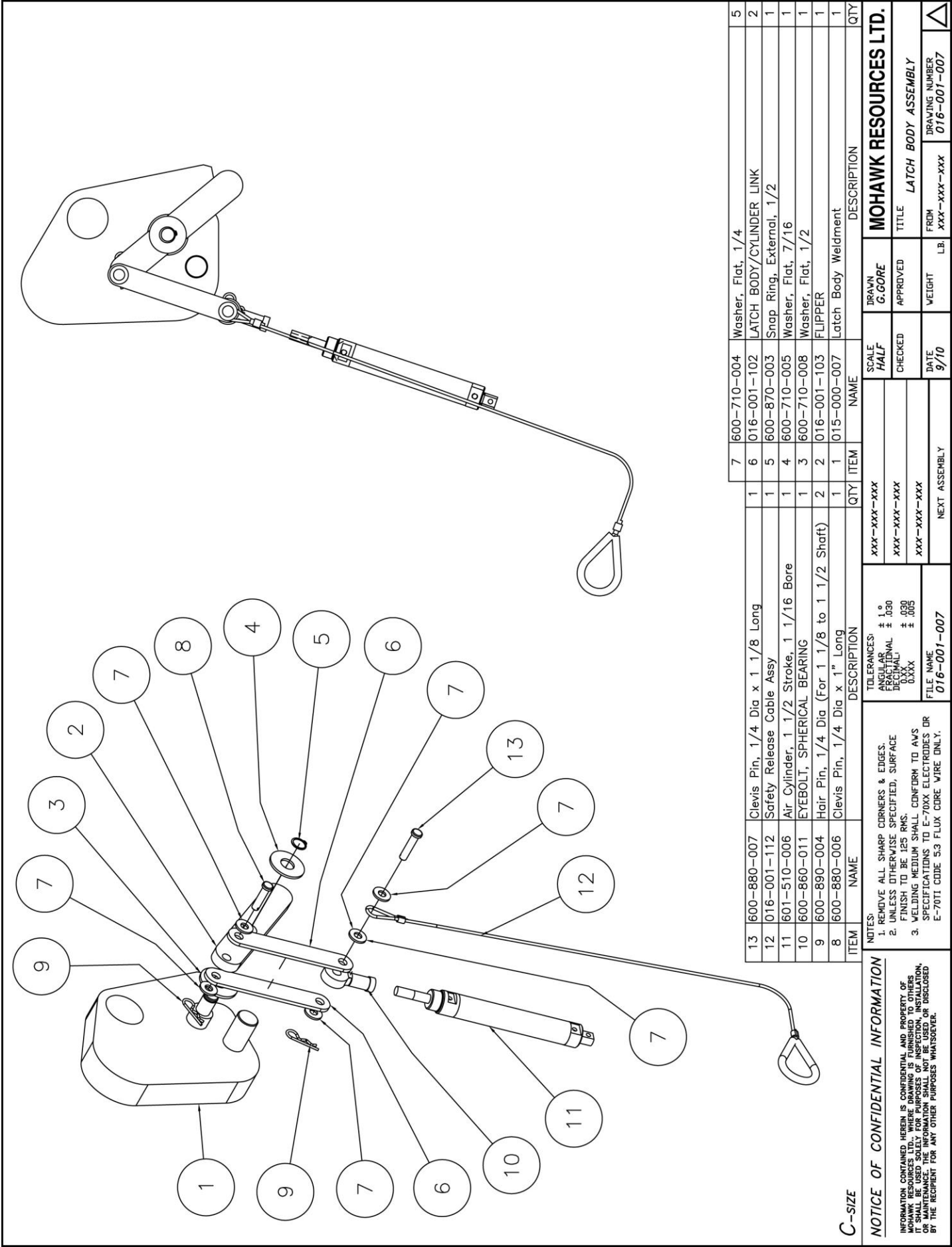
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ITEM	NAME	DESCRIPTION	QTY	ITEM	NAME	DESCRIPTION	QTY
21	601-520-002	90° Elbow Swiv, 1/8 NPT To 1/4 Tube	1	11	600-680-004	Nut, Plain, 1-14 NF	8
20	600-870-001	Snap Ring, 1 3/8 Shaft	5	10	600-680-003	Nut, Plain, 5/16-18 NC	2
19	600-860-015	Heavy Duty Bearing, 4" Dia	4	9	600-640-019	Bolt, Hex Head, 1/4-20 NC x 1 1/2 (GR5)	1
18	600-860-012	Bearing, 4" Dia	4	8	600-640-011	Bolt, Hex Head, 3/4-16 NF x 3 1/2 (GR5)	4
17	600-840-006	Spring, 1.343 OD x 7.09 Lg	2	7	600-640-010	Bolt, Hex Head, 5/8-11 NC x 2 1/2 (GR5)	2
16	600-710-007	Washer, Flat, 5/8	2	6	009-001-156	Arm Restraint	2
15	600-710-006	Washer, Flat (Fender), 5/16	2	5	007-007-141	Arm Lock Pin Handle	2
14	600-710-001	Washer, Flat, 3/4	4	4	012-012-152	Bearing Pivot	4
13	600-690-005	Nut, Nylon Lock, 1/4-20 NC	1	3	012-012-131	Lifting Rod, 1" DIA x 62 1/8 LG	2
12	600-690-003	Nut, Nylon Lock, 3/4-16 NF	4	2	016-001-007	Latch Body Assembly	1
				1	016-001-006	Carriage Weldment w/ Airlock Release	1
ITEM	NAME	DESCRIPTION	QTY	ITEM	NAME	DESCRIPTION	QTY

NOTES:				TOLERANCES:			
1. REMOVE ALL SHARP CORNERS & EDGES.				FRACTIONAL ± .005			
2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS.				DECIMAL ± .003			
3. WELDING MATERIAL SHALL CONFORM TO AWS SPECIFICATIONS TO E-TRODE ELECTRODES OR E-7011 CODE 53 PLUS CORE WIRE ONLY.				FILE NAME 016-001-005			
DRAWN G.GORE				MOHAWK RESOURCES LTD.			
CHECKED				TITLE			
DATE 9/10				CARRIAGE ASSEMBLY			
WEIGHT 203				FROM 016-001-005			
NEXT ASSEMBLY				DRAWING NUMBER			





ITEM	NAME	DESCRIPTION	QTY	ITEM	NAME	DESCRIPTION	QTY
11	600-600-001	Screw, Pan Head, #10-32 NF x 1/2 Lg	2	6	601-510-005	Poppet Valve Push Button	1
10	600-720-011	Washer, Lock, 3/8	2	5	601-510-004	Poppet Valve, 3-Way	1
9	600-640-034	Bolt, Hex Head, 3/8-16 NC x 3/4 (GR8)	2	4	601-510-025	Wall Bracket	1
8	601-520-002	90° Elbow Swiv, 1/8 NPT To 1/4 Tube	2	3	601-510-024	Gauge	1
7	601-420-275	Elbow, 90 Deg, 1/4 MNPT to 1/4 MNPT	1	2	601-510-026	Regulator	1
				1	016-001-111	VALVE/REGULATOR BRACKET	1
ITEM	NAME	DESCRIPTION	QTY	ITEM	NAME	DESCRIPTION	QTY
NOTICE OF CONFIDENTIAL INFORMATION				NOTES			
INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT IS TO BE KEPT SECRET AND NOT TO BE DISCLOSED TO OTHERS WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD. IT IS TO BE DESTROYED WHEN NO LONGER REQUIRED BY THE USER OR REGULATOR BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.				1. REMOVE ALL SHARP CORNERS & EDGES. 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE US RNS. 3. SPECIFICATIONS TO E-700X ELASTICITIES OR E-701T CODE 5.3 FLUX CODE WIRE ONLY.			
				TOL FINISHED ANALYSE ± 1.0 ± 2.0 ± 3.0 ± 4.0 ± 5.0 ± 6.0 ± 7.0 ± 8.0 ± 9.0 ± 10.0 ± 11.0 ± 12.0 ± 13.0 ± 14.0 ± 15.0 ± 16.0 ± 17.0 ± 18.0 ± 19.0 ± 20.0 ± 21.0 ± 22.0 ± 23.0 ± 24.0 ± 25.0 ± 26.0 ± 27.0 ± 28.0 ± 29.0 ± 30.0 ± 31.0 ± 32.0 ± 33.0 ± 34.0 ± 35.0 ± 36.0 ± 37.0 ± 38.0 ± 39.0 ± 40.0 ± 41.0 ± 42.0 ± 43.0 ± 44.0 ± 45.0 ± 46.0 ± 47.0 ± 48.0 ± 49.0 ± 50.0 ± 51.0 ± 52.0 ± 53.0 ± 54.0 ± 55.0 ± 56.0 ± 57.0 ± 58.0 ± 59.0 ± 60.0 ± 61.0 ± 62.0 ± 63.0 ± 64.0 ± 65.0 ± 66.0 ± 67.0 ± 68.0 ± 69.0 ± 70.0 ± 71.0 ± 72.0 ± 73.0 ± 74.0 ± 75.0 ± 76.0 ± 77.0 ± 78.0 ± 79.0 ± 80.0 ± 81.0 ± 82.0 ± 83.0 ± 84.0 ± 85.0 ± 86.0 ± 87.0 ± 88.0 ± 89.0 ± 90.0 ± 91.0 ± 92.0 ± 93.0 ± 94.0 ± 95.0 ± 96.0 ± 97.0 ± 98.0 ± 99.0 ± 100.0 ± 101.0 ± 102.0 ± 103.0 ± 104.0 ± 105.0 ± 106.0 ± 107.0 ± 108.0 ± 109.0 ± 110.0 ± 111.0 ± 112.0 ± 113.0 ± 114.0 ± 115.0 ± 116.0 ± 117.0 ± 118.0 ± 119.0 ± 120.0 ± 121.0 ± 122.0 ± 123.0 ± 124.0 ± 125.0 ± 126.0 ± 127.0 ± 128.0 ± 129.0 ± 130.0 ± 131.0 ± 132.0 ± 133.0 ± 134.0 ± 135.0 ± 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386.0 ± 387.0 ± 388.0 ± 389.0 ± 390.0 ± 391.0 ± 392.0 ± 393.0 ± 394.0 ± 395.0 ± 396.0 ± 397.0 ± 398.0 ± 399.0 ± 400.0 ± 401.0 ± 402.0 ± 403.0 ± 404.0 ± 405.0 ± 406.0 ± 407.0 ± 408.0 ± 409.0 ± 410.0 ± 411.0 ± 412.0 ± 413.0 ± 414.0 ± 415.0 ± 416.0 ± 417.0 ± 418.0 ± 419.0 ± 420.0 ± 421.0 ± 422.0 ± 423.0 ± 424.0 ± 425.0 ± 426.0 ± 427.0 ± 428.0 ± 429.0 ± 430.0 ± 431.0 ± 432.0 ± 433.0 ± 434.0 ± 435.0 ± 436.0 ± 437.0 ± 438.0 ± 439.0 ± 440.0 ± 441.0 ± 442.0 ± 443.0 ± 444.0 ± 445.0 ± 446.0 ± 447.0 ± 448.0 ± 449.0 ± 450.0 ± 451.0 ± 452.0 ± 453.0 ± 454.0 ± 455.0 ± 456.0 ± 457.0 ± 458.0 ± 459.0 ± 460.0 ± 461.0 ± 462.0 ± 463.0 ± 464.0 ± 465.0 ± 466.0 ± 467.0 ± 468.0 ± 469.0 ± 470.0 ± 471.0 ± 472.0 ± 473.0 ± 474.0 ± 475.0 ± 476.0 ± 477.0 ± 478.0 ± 479.0 ± 480.0 ± 481.0 ± 482.0 ± 483.0 ± 484.0 ± 485.0 ± 486.0 ± 487.0 ± 488.0 ± 489.0 ± 490.0 ± 491.0 ± 492.0 ± 493.0 ± 494.0 ± 495.0 ± 496.0 ± 497.0 ± 498.0 ± 499.0 ± 500.0 ± 501.0 ± 502.0 ± 503.0 ± 504.0 ± 505.0 ± 506.0 ± 507.0 ± 508.0 ± 509.0 ± 510.0 ± 511.0 ± 512.0 ± 513.0 ± 514.0 ± 515.0 ± 516.0 ± 517.0 ± 518.0 ± 519.0 ± 520.0 ± 521.0 ± 522.0 ± 523.0 ± 524.0 ± 525.0 ± 526.0 ± 527.0 ± 528.0 ± 529.0 ± 530.0 ± 531.0 ± 532.0 ± 533.0 ± 534.0 ± 535.0 ± 536.0 ± 537.0 ± 538.0 ± 539.0 ± 540.0 ± 541.0 ± 542.0 ± 543.0 ± 544.0 ± 545.0 ± 546.0 ± 547.0 ± 548.0 ± 549.0 ± 550.0 ± 551.0 ± 552.0 ± 553.0 ± 554.0 ± 555.0 ± 556.0 ± 557.0 ± 558.0 ± 559.0 ± 560.0 ± 561.0 ± 562.0 ± 563.0 ± 564.0 ± 565.0 ± 566.0 ± 567.0 ± 568.0 ± 569.0 ± 570.0 ± 571.0 ± 572.0 ± 573.0 ± 574.0 ± 575.0 ± 576.0 ± 577.0 ± 578.0 ± 579.0 ± 580.0 ± 581.0 ± 582.0 ± 583.0 ± 584.0 ± 585.0 ± 586.0 ± 587.0 ± 588.0 ± 589.0 ± 590.0 ± 591.0 ± 592.0 ± 593.0 ± 594.0 ± 595.0 ± 596.0 ± 597.0 ± 598.0 ± 599.0 ± 600.0 ± 601.0 ± 602.0 ± 603.0 ± 604.0 ± 605.0 ± 606.0 ± 607.0 ± 608.0 ± 609.0 ± 610.0 ± 611.0 ± 612.0 ± 613.0 ± 614.0 ± 615.0 ± 616.0 ± 617.0 ± 618.0 ± 619.0 ± 620.0 ± 621.0 ± 622.0 ± 623.0 ± 624.0 ± 625.0 ± 626.0 ± 627.0 ± 628.0 ± 629.0 ± 630.0 ± 631.0 ± 632.0 ± 633.0 ± 634.0 ± 635.0 ± 636.0 ± 637.0 ± 638.0 ± 639.0 ± 640.0 ± 641.0 ± 642.0 ± 643.0 ± 644.0 ± 645.0 ± 646.0 ± 647.0 ± 648.0 ± 649.0 ± 650.0 ± 651.0 ± 652.0 ± 653.0 ± 654.0 ± 655.0 ± 656.0 ± 657.0 ± 658.0 ± 659.0 ± 660.0 ± 661.0 ± 662.0 ± 663.0 ± 664.0 ± 665.0 ± 666.0 ± 667.0 ± 668.0 ± 669.0 ± 670.0 ± 671.0 ± 672.0 ± 673.0 ± 674.0 ± 675.0 ± 676.0 ± 677.0 ± 678.0 ± 679.0 ± 680.0 ± 681.0 ± 682.0 ± 683.0 ± 684.0 ± 685.0 ± 686.0 ± 687.0 ± 688.0 ± 689.0 ± 690.0 ± 691.0 ± 692.0 ± 693.0 ± 694.0 ± 695.0 ± 696.0 ± 697.0 ± 698.0 ± 699.0 ± 700.0 ± 701.0 ± 702.0 ± 703.0 ± 704.0 ± 705.0 ± 706.0 ± 707.0 ± 708.0 ± 709.0 ± 710.0 ± 711.0 ± 712.0 ± 713.0 ± 714.0 ± 715.0 ± 716.0 ± 717.0 ± 718.0 ± 719.0 ± 720.0 ± 721.0 ± 722.0 ± 723.0 ± 724.0 ± 725.0 ± 726.0 ± 727.0 ± 728.0 ± 729.0 ± 730.0 ± 731.0 ± 732.0 ± 733.0 ± 734.0 ± 735.0 ± 736.0 ± 737.0 ± 738.0 ± 739.0 ± 740.0 ± 741.0 ± 742.0 ± 743.0 ± 744.0 ± 745.0 ± 746.0 ± 747.0 ± 748.0 ± 749.0 ± 750.0 ± 751.0 ± 752.0 ± 753.0 ± 754.0 ± 755.0 ± 756.0 ± 757.0 ± 758.0 ± 759.0 ± 760.0 ± 761.0 ± 762.0 ± 763.0 ± 764.0 ± 765.0 ± 766.0 ± 767.0 ± 768.0 ± 769.0 ± 770.0 ± 771.0 ± 772.0 ± 773.0 ± 774.0 ± 775.0 ± 776.0 ± 777.0 ± 778.0 ± 779.0 ± 780.0 ± 781.0 ± 782.0 ± 783.0 ± 784.0 ± 785.0 ± 786.0 ± 787.0 ± 788.0 ± 789.0 ± 790.0 ± 791.0 ± 792.0 ± 793.0 ± 794.0 ± 795.0 ± 796.0 ± 797.0 ± 798.0 ± 799.0 ± 800.0 ± 801.0 ± 802.0 ± 803.0 ± 804.0 ± 805.0 ± 806.0 ± 807.0 ± 808.0 ± 809.0 ± 810.0 ± 811.0 ± 812.0 ± 813.0 ± 814.0 ± 815.0 ± 816.0 ± 817.0 ± 818.0 ± 819.0 ± 820.0 ± 821.0 ± 822.0 ± 823.0 ± 824.0 ± 825.0 ± 826.0 ± 827.0 ± 828.0 ± 829.0 ± 830.0 ± 831.0 ± 832.0 ± 833.0 ± 834.0 ± 835.0 ± 836.0 ± 837.0 ± 838.0 ± 839.0 ± 840.0 ± 841.0 ± 842.0 ± 843.0 ± 844.0 ± 845.0 ± 846.0 ± 847.0 ± 848.0 ± 849.0 ± 850.0 ± 851.0 ± 852.0 ± 853.0 ± 854.0 ± 855.0 ± 856.0 ± 857.0 ± 858.0 ± 859.0 ± 860.0 ± 861.0 ± 862.0 ± 863.0 ± 864.0 ± 865.0 ± 866.0 ± 867.0 ± 868.0 ± 869.0 ± 870.0 ± 871.0 ± 872.0 ± 873.0 ± 874.0 ± 875.0 ± 876.0 ± 877.0 ± 878.0 ± 879.0 ± 880.0 ± 881.0 ± 882.0 ± 883.0 ± 884.0 ± 885.0 ± 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				TITLE MOHAWK RESOURCES LTD.			
				TITLE AIR VALVE/REGULATOR ASSEMBLY			
				FILE NAME			
				NEXT ASSEMBLY			
				DATE 8/10			
				WEIGHT 1.86 LB.			
				SIGN MOHAWK-XXXX-XXXX			
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MOHAWK

PRE-EXISTING SLAB REQUIREMENTS & NEW SLAB RECOMMENDATIONS



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.

AMSTERDAM, NY 12010

TOLL FREE : 1-800-833-2006

LOCAL : 1-518-842-1431

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INTERNET: www.MOHAWKLIFTS.com

E-MAIN: Service@MOHAWKLIFTS.com

Mohawk Resources Ltd.



PRE-EXISTING Minimum Floor Requirements

Mohawk Lift Model	Minimum Slab Thickness	Minimum Compressive Strength	Reinforcement Size	Reinforcement Spacing (Rebar)
A-7	4-1/2"	4000 psi with 28 day aging	#6 rebar	12 in.
System IA	4-1/2"	4000 psi with 28 day aging	#6 rebar	12 in.
System IA-10	4-1/2"	4000 psi with 28 day aging	#6 rebar	12 in.
LC-12	6 1/2"	4000 psi with 28 day aging	#6 rebar	12 in.
LMF-12	6 1/2"	4000 psi with 28 day aging	#6 rebar	12 in.
TP-15	6 1/2"	4000 psi with 28 day aging	#6 rebar	10 in.
TP-16	6 1/2"	4000 psi with 28 day aging	#6 rebar	10 in.
TP-18 (2012)	6 1/2"	4000 psi with 28 day aging	#6 rebar	10 in.
TP-20	8"	4000 psi with 28 day aging	#6 rebar	10 in.
TP-20-WB	6 1/2"	4000 psi with 28 day aging	#6 rebar	10 in.
TP-26	12"	4000 psi with 28 day aging	#6 rebar	10 in.
TP-26-WB	8"	4000 psi with 28 day aging	#6 rebar	10 in.
TP-30	12"	4000 psi with 28 day aging	#6 rebar	10 in.
TP-30-WB	8"	4000 psi with 28 day aging	#6 rebar	10 in.
TR-19	4 1/2"	n/a	ACI Temp only*	ACI Temp only*
FL-25	4 1/2"	n/a	ACI Temp only*	ACI Temp only*
TR-25A	4 1/2"	n/a	ACI Temp only*	ACI Temp only*
TR-30	4 1/2"	n/a	ACI Temp only*	ACI Temp only*
TR-33	6" or (4 1/2" **)	n/a	ACI Temp only*	ACI Temp only*
TR-35	6" or (4 1/2" **)	n/a	ACI Temp only*	ACI Temp only*
TR-50	6" or (4 1/2" **)	n/a	ACI Temp only*	ACI Temp only*
TR-75	6" or (4 1/2" **)	n/a	ACI Temp only*	ACI Temp only*

* The floor must be properly aged to American Concrete Institute specifications. The floor does not require reinforcement, but a minimum of 4" x 4" x 10/10 wire mesh is recommended.

** Larger 4' x 4' base pads (available from Mohawk) required for floors with a thickness range less than 6", but greater or equal to 4 1/2".

The floor should be test drilled to verify minimum floor thickness and to confirm building drawings. A core sample should be obtained and tested to verify minimum floor compressive strength. When investigating floor properties, consult building drawings to verify proper floor reinforcement.

All 2-post lifts require a continuous single slab. Spanning expansion seams or positioning posts on separate slabs is not acceptable.

--- ALL MOHAWK LIFTS MUST BE INSTALLED ON CONCRETE ONLY ---

DO NOT install any Mohawk lift on any surface other than concrete, conforming to the minimum compressive strength, aging, reinforcement, and thickness stated in the table above.

DO NOT install any Mohawk lift on expansion seams or on cracked or defective concrete. All 3/4 inch diameter anchors must be a minimum of 6 inches away from any expansion seams, control joints or other inconsistencies in the concrete. All 1 inch diameter anchors must be a minimum of 7 1/2 inches away from any expansion seams, control joints or other inconsistencies in the concrete. Refer to anchor manufacturer specifications for specific information concerning edge distances and bolt to bolt distance requirements.

NEVER, NEVER install a Mohawk lift on hand mixed concrete.

DO NOT install any Mohawk lift on a secondary floor level or on any ground floor with a basement beneath without written authorization from the building architect and prior consultation and approval from Mohawk Resources Ltd.

If the floor does not meet these minimum pre-existing floor requirements, it is suggested to construct a slab as outlined in **New Slab Recommendations**. If the location of the lift is in a seismic zone, additional provisions will need to be considered, and it is recommended to consult a building architect or engineer.

New Slab Recommendations:

The information contained in this appendage supercedes any other information given in the accompanied manual. This information is presented for design recommendations for a new concrete slab in the event that the pre-existing floor does not meet minimum requirements of the applicable lift type. Please read all instructions below carefully before producing new slab.

Basic Concrete Requirements:

Minimum Tensile Strength of Concrete:	4,000 P.S.I.
Minimum Aging of New Concrete Slab:	28 days (cure time)
Minimum Thickness of Concrete Slab:	See New Slab Table & Figure Attached
Minimum Width and Length of Slab:	See New Slab Table & Figure Attached

All properties of the new concrete slab are mandatory and must conform to the above stated properties before installation of the lift is deemed acceptable. The new slab must be totally surrounded by an existing concrete floor. Certified strength documentation should be obtained from the firm who supplies the concrete mixture at the time of the pour.

The slab above is designed as “stand alone” and does not take into account the contribution of strength from surrounding concrete. It may be desirable to reinforce the new slab to the pre-existing surrounding floor. Care should be taken to locate these specific reinforcement bars away from any anchor positions of the specific lift.

This new slab design does not account for second floor installations or installations in a ground floor with a basement beneath. For this case, the lift should not be installed without written authorization from the building architect.

All $\frac{3}{4}$ inch diameter anchors must be a minimum of 6 inches away from any expansion seams, control joints or other inconsistencies in the concrete. All 1 inch diameter anchors must be a minimum of $7\frac{1}{2}$ inches away from any expansion seams, control joints or other inconsistencies in the concrete. Refer to anchor manufacturer specifications for specific information concerning edge distances and bolt to bolt distance requirements.

NEVER, NEVER, hand mix your own concrete.

Rev: 6/7/06

File: New-Slab.doc

New Slab Recommendations

File: New-slab.xls

Rev Date: 5/16/2012

NEW SLABS MUST BE 12" THICK MINIMUM !! (See Notes Below)

Lift Model	W Slab Width, (Inches)	L Slab Length, (Inches)	R Reinforcement Size, (Inch) (See Note 1 & 2)	S1 & S2 Reinforcement Spacing, (Inch) (See Note 3)	D Wej-it Dia, (Inch)	I Wej-it Length, (Inch)
A-7	48" Min	144" Min	8 - #4 - Main Bars 21 - #4 - Temperature Bars	6 in - Long Bars 8 in - Short Bars	3/4 in	5 in
System IA	48" Min	161" Min	8 - #4 - Main Bars 21 - #4 - Temperature Bars	6 in - Long Bars 8 in - Short Bars	3/4 in	5 in
System IA-10	48" Min	161" Min	8 - #4 - Main Bars 21 - #4 - Temperature Bars	6 in - Long Bars 8 in - Short Bars	3/4 in	5 in
LC-12	72" Min	168" Min	12 - #4 - Main Bars 23 - #4 - Temperature Bars	6 in - Long Bars 8 in - Short Bars	3/4 in	6 in
LMF-12	72" Min	168" Min	12 - #4 - Main Bars 23 - #4 - Temperature Bars	6 in - Long Bars 8 in - Short Bars	3/4 in	6 in
TP-15	72" Min	168" Min	12 - #4 - Main Bars 23 - #4 - Temperature Bars	6 in - Long Bars 8 in - Short Bars	3/4 in	6 in
TP-16	72" Min	168" Min	12 - #4 - Main Bars 23 - #4 - Temperature Bars	6 in - Long Bars 8 in - Short Bars	3/4 in	6 in
TP-18 (2012)	72" Min	168" Min	12 - #4 - Main Bars 23 - #4 - Temperature Bars	6 in - Long Bars 8 in - Short Bars	3/4 in	6 in
TP-20	72" Min	186" Min	18 - #4 - Main Bars 24 - #4 - Temperature Bars	4 in - Long Bars 8 in - Short Bars	3/4 in	6 in
TP-20-WB	72" Min	186" Min	18 - #4 - Main Bars 24 - #4 - Temperature Bars	4 in - Long Bars 8 in - Short Bars	3/4 in	6 in
TP-26	72" Min	198" Min	18 - #4 - Main Bars 24 - #4 - Temperature Bars	4 in - Long Bars 8 in - Short Bars	1 in	10 in
TP-26-WB	72" Min	220" Min	18 - #4 - Main Bars 24 - #4 - Temperature Bars	4 in - Long Bars 8 in - Short Bars	1 in	8 in
TP-30	72" Min	198" Min	18 - #4 - Main Bars 24 - #4 - Temperature Bars	4 in - Long Bars 8 in - Short Bars	1 in	10 in
TP-30-WB	72" Min	220" Min	18 - #4 - Main Bars 24 - #4 - Temperature Bars	4 in - Long Bars 8 in - Short Bars	1 in	8 in
TR-19 *	24" Min	24" Min	4 - #4 Bars 8 Bars Total	6 in - Each Way	3/4 in	5 in
FL-25 *	24" Min	24" Min	4 - #4 Bars 8 Bars Total	6 in - Each Way	3/4 in	5 in
TR-25 *	24" Min	24" Min	4 - #4 Bars 8 Bars Total	6 in - Each Way	3/4 in	5 in
TR-30 *	48" Min	48" Min	4 - #4 Bars 8 Bars Total	6 in - Each Way	3/4 in	5 in
TR-33 *	72" Min	72" Min	12 - #4 Bars 24 Bars Total	6 in - Each Way	3/4 in	5 in
TR-35 *	72" Min	72" Min	12 - #4 Bars 24 Bars Total	6 in - Each Way	3/4 in	5 in
TR-50 *	72" Min	72" Min	12 - #4 Bars 24 Bars Total	6 in - Each Way	3/4 in	5 in
TR-75 *	72" Min	72" Min	12 - #4 Bars 24 Bars Total	6 in - Each Way	3/4 in	5 in

* Four Separate Slabs Formed at each Post.

Note 1: An additional layer of 6 x 6 - 10/10 WWF at mid height of new slab would be advisable in any extremely hot or cold climate to control cracking due to temperature fluctuations and shrinkage.
At anchor bolt locations only keep WWF mesh below the elevation of the anchorage to avoid drilling interference with the wire.

Note 2: The main reinforcing and lower temperature steel shall be Grade 60 deformed bars

Note 3: The tolerance on spacing of the bars in each direction shall be the value shown, plus or minus 1 inch.
In addition, the number of bars specified in the table must be used.

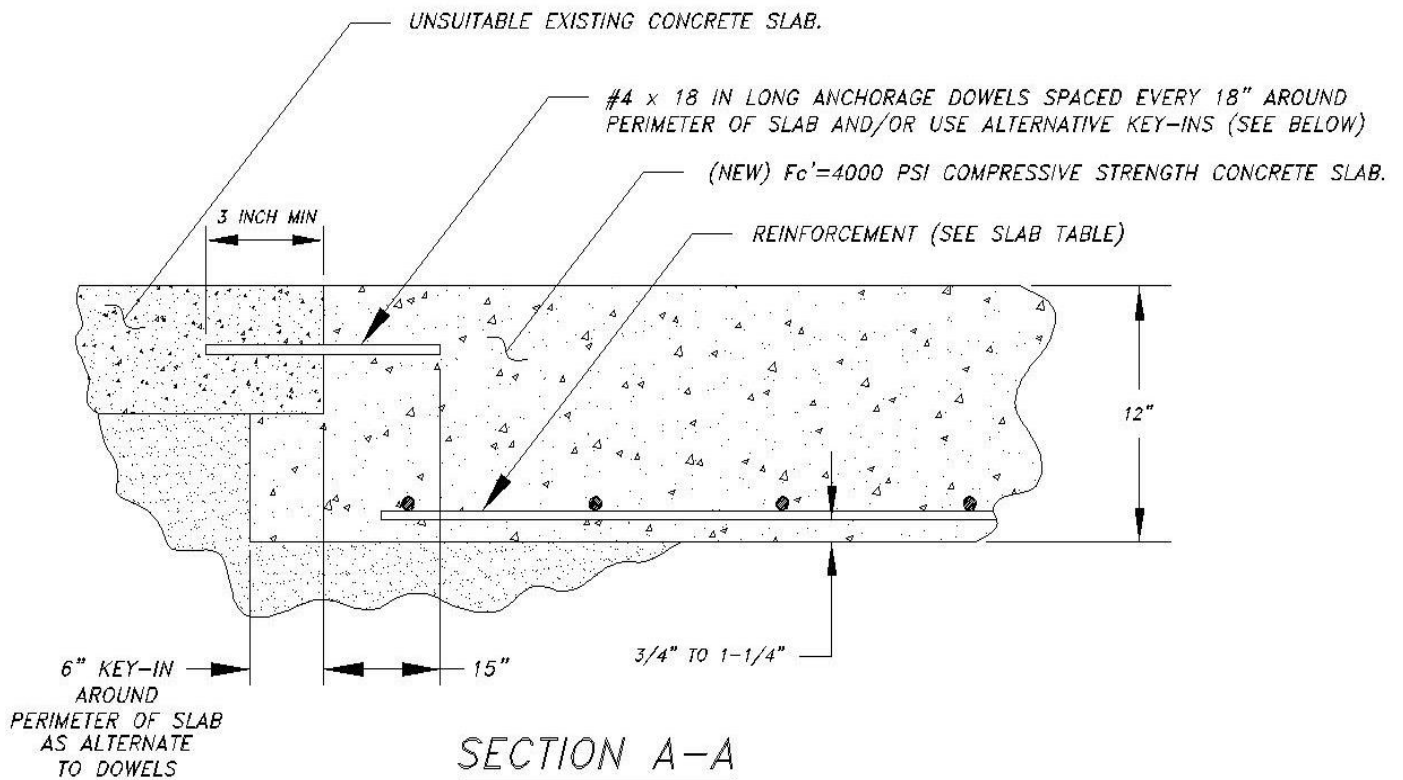
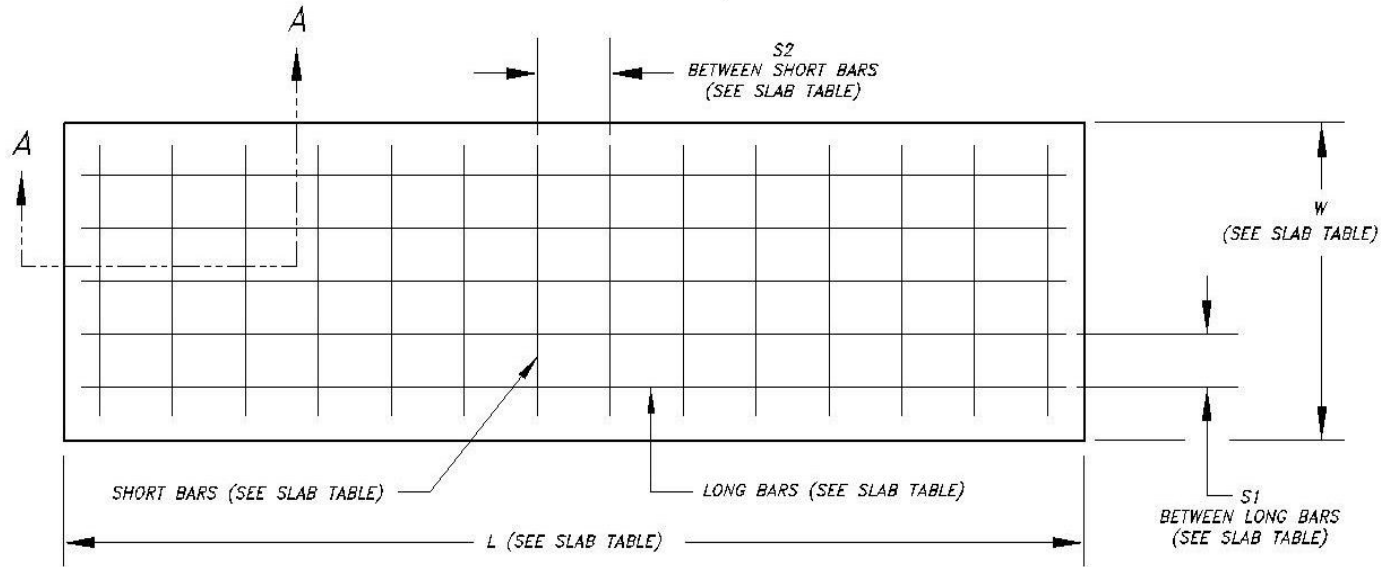
Note 4: The concrete outline dimensions and the reinforcing shown are for a foundation bed allowable bearing capacity of not less than 2,000 lb/sq ft (1 ton per square foot). Many clays, and most all firm clay, hard clay, sand & clay mixes, dry sands, coarse dry sands, dry sand and silt mixes, sand and gravel mixes, and gravel type soils meet or exceed this allowable bearing capacity. If there is question regarding the foundation bed allowable bearing capacity, a soils testing engineer should be consulted. Situations where the allowable bearing capacity is lower than this value will require special attention.

NEW RECOMMENDED SLAB DESIGN FOR 2-POST LIFTS

FILE: MAN066

DATE: 2/98

REV DATE: 7/2003

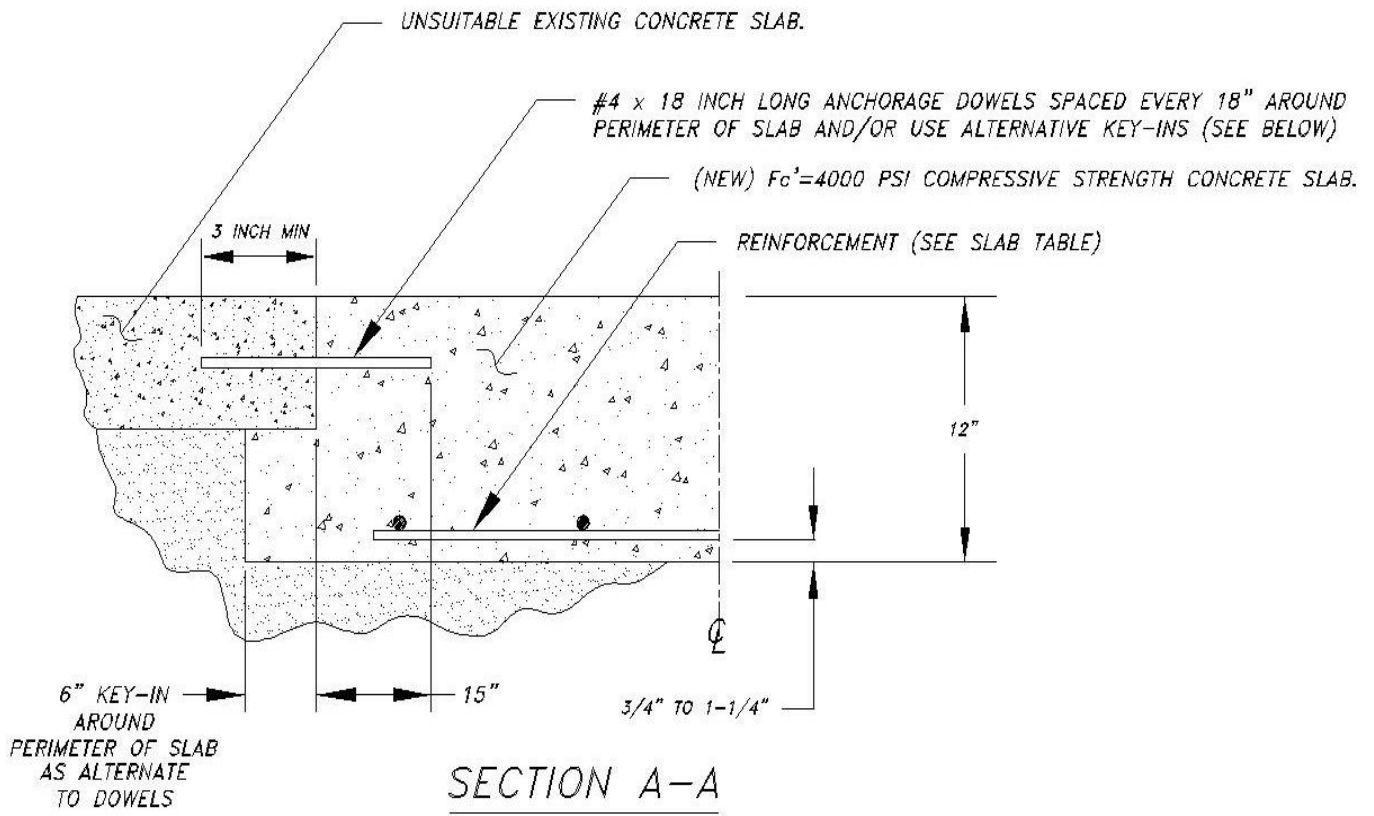
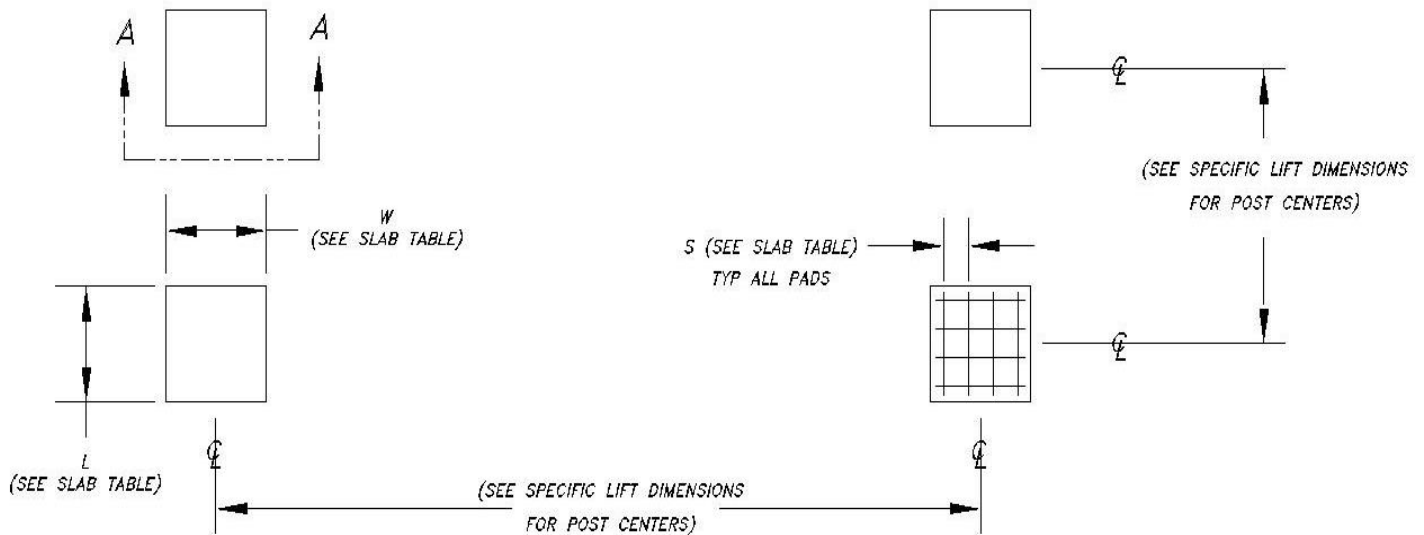


NEW RECOMMENDED SLAB DESIGN FOR 4-POST LIFTS

FILE: MAN089

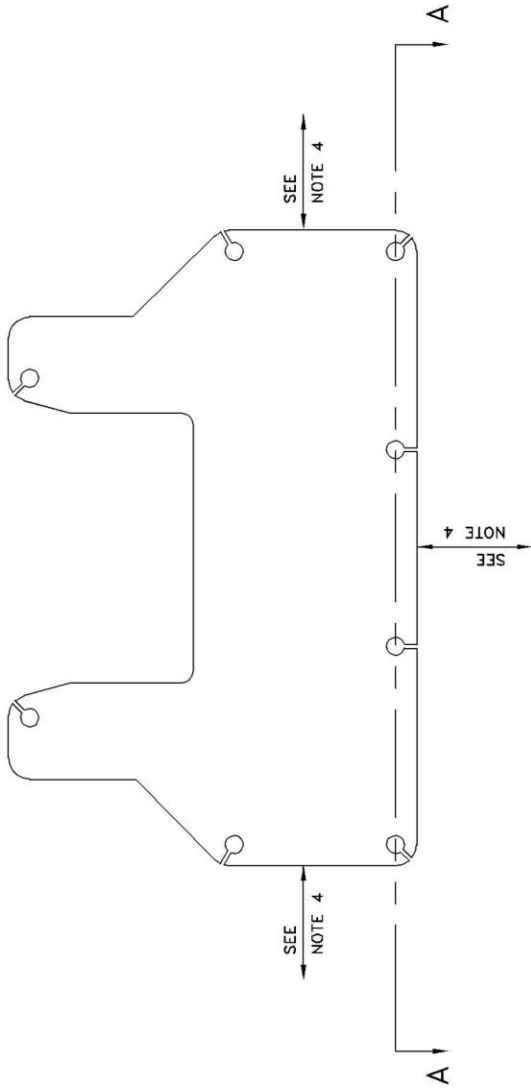
DATE: 10/00

REV DATE: 7/2003



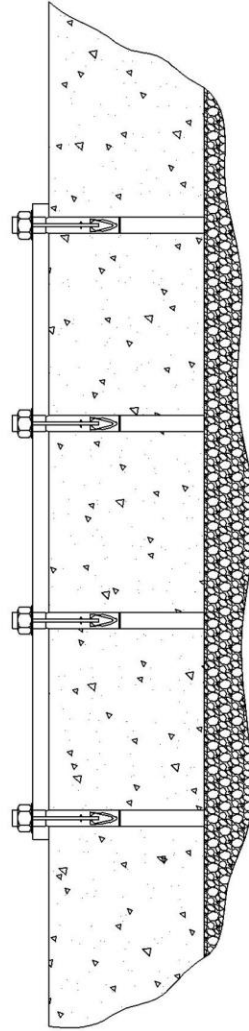
REV.	DESCRIPTION	DATE	BY	APP'D.
△				

TYPICAL BASE PLATE DETAIL
(SYSTEM 1A SHOWN BELOW – 8 ANCHORS PER BASE PLATE)



BASE PLATE ANCHORING
INSTRUCTIONS:

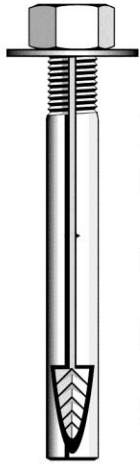
1. LOCATE POSTS IN DESIRED LOCATION OF BAY, PER LIFT SETUP DIMENSIONS. REFER TO LIFT MANUAL FOR INSIDE DIMENSIONS OF COLUMNS, ETC.
(FOR SYSTEM 1A-10, THE INSIDE POST DIMENSION IS 120")
2. MATCH DRILL ALL BASE PLATE HOLES. REFER TO ANCHOR BOLT INSTALLATION SPECIFICATIONS ATTACHED FOR DRILL SIZE. (3/4" DIAMETER ORIGINAL WEJ-IT STYLE EXPANSION ANCHOR BOLTS).
3. INSTALL ANCHORS PER ANCHOR BOLT INSTALLATION SPECIFICATIONS ATTACHED. SHIM UNDER BASE PLATE AS NEEDED TO ENSURE THAT POSTS ARE SQUARE AND PLUMB (MAXIMUM OF 1/4") WITH COLORED SHIMS PROVIDED (HORSESHOE SHAPED).
4. ALL ANCHORS MUST BE A MINIMUM OF 6" AWAY FROM ANY EXPANSION SEAM, CONTROL JOINT, OR OTHER FLOOR INCONSISTENCIES.
5. DRILLING THRU ENTIRE SLAB THICKNESS IS PREFERRED WHEN POSSIBLE. THIS ALLOWS ANCHORS TO BE HAMMERED FLUSH TO CONCRETE IF LIFT IS RE-LOCATED.



SECTION A-A:

C-SIZE

NOTICE OF CONFIDENTIAL INFORMATION		NOTES:		TOLERANCES:		SCALE	DRAWN	MOHAWK RESOURCES LTD.	
INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION, INSTALLATION, OR MAINTENANCE. THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.		1. REMOVE ALL SHARP CORNERS & EDGES. 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS. 3. WELDING MEDIUM SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-70TT CODE 5.3 FLUX CORE WIRE ONLY.		ANGULAR ± 1° DECIMAL ± .030 XXX ± .006		1/4	rww7089	TITLE	
				FILE NAME		CHECKED	APPROVED	Base Plate Anchoring Detail	
				ZZ912		R.V.		FROM	
				NEXT ASSEMBLY		DATE	WEIGHT	DRAWING NUMBER	
						2/05	N/A LB	ZZ912	



The Original **wej-it**® Wedge Anchors

KEY FEATURES/BENEFITS

- **Time-Tested, Proven Reliability.** An industry standard for over 45 years.
- **Fully Assembled and Ready to Use.** Unparalleled job-site convenience.
- **BOLT SIZE IS HOLE SIZE.®** Allows precision placement of equipment through pre-drilled holes.
- **Exclusive "Positive Wedge Connections."** Minimizes wedge loosening due to vibratory loads.



SPECIFICATIONS, APPROVALS AND LISTINGS

TYPE

Zinc Plating	ASTM B-633, Type III, SCI
ICBO-ES	Report #1821
City of Los Angeles	#RR 24939
DOT	Please call Customer Service for specific information by state.
Federal Specifications	QQZ-325C, Type II, Class 3 (Clear Chromate added) FFS-325, Group II, Type 4, Class 1

MAXIMUM TENSILE AND SHEAR CAPACITY FOR STATIC LOADS

	LIMESTONE AGGREGATE			UNREINFORCED STONE AGGREGATE CONCRETE ZIN PLATED ARBON STEEL								UNREINFORCED LIGHTWEIGHT (IDEALITE)			
Anchor & Hole Size	Embed- ment (in)	2000 psi Tension (lbs)	2000 psi Shear (lbs)	Embed- ment (in)	3000 psi Tension (lbs)	3000 psi Shear (lbs)	5000 psi Tension (lbs)		5000 psi Shear (lbs)	7000 psi Tension (lbs)		7000 psi Shear (lbs)	Embed- ment (in)	5000 psi Tension (lbs)	5000 psi Shear (lbs)
1/4	1 1/8	1132	1211	1 1/8	1320	1751	1760	2316		2464	2494		1 1/2	1861	1947
1/4	1 3/4	1256	1211	1 1/2	1856	1751	2473	2316		3462	2494		•	•	•
5/16	1 1/4	1308	1210	1 1/4	2057	1839	2742	2530		3939	3439		1 1/2	2493	3064
5/16	2	1181	1210	1 3/4	2389	1839	3185	2530		4459	3439		•	•	•
3/8	1 1/4	994	1223	1 1/2	2876	4286	3834	5213		5368	5658		1 3/4	3125	4289
3/8	4	1728	1223	4	3488	4286	4650	5213		6510	5658		•	•	•
1/2	1 3/4	1542	3009	2 1/4	3473	7138	5789	10748		8105	11550		2 1/4	4778	9833
1/2	6	2695	3009	5	4809	7138	8015	10748		11221	11550		•	•	•
5/8	•	•	•	3 1/2	7582	10719	12636	15583		17690	16700		2 1/2	6455	12500
5/8	•	•	•	4 3/4	9179	10719	15299	15583		21419	16700		•	•	•
3/4	•	•	•	3	11579	15537	19299	21000		27019	23103		3 1/2	17293	19050
3/4	•	•	•	7	15444	15537	25740	21000		36036	23103		•	•	•
7/8	•	•	•	4 1/2	15266	•	25444	25099		33622	28718		•	•	•
7/8	•	•	•	7	16992	•	28320	25099		39648	28718		•	•	•
1	•	•	•	5 1/2	16351	•	27252	33083		38153	35700		4 1/2	21616	31666
1	•	•	•	7	17837	•	29728	33083		41619	35700		•	•	•
Source	1			2								2			

Sources (available upon request): 1) University of Texas, Austin, TX (using new ICBO-ES testing criteria); 1993. 2) AA Engineers & Associates, Inc., Denver, CO; 1981.

EDGE DISTANCE AND SPACING REQUIREMENTS

Embedment (E) in Anchor Diameters (d)	Spacing	Edge Distance
$E < 6d$ (shallow)	3.50E	1.75E
$6d \leq E \leq 8d$ (standard)	2.00E	1.00E
$8d < E$ (deep)	1.50E	0.75E

NOTES:

- Information provided only for the use of a qualified design engineer. Use of technical data by persons not qualified could cause serious damage, injury, or even death.
- Ultimate values shown. For static loads, use one-fourth of the maximum tensile and shear capacities for the recommended 4:1 safety factor.

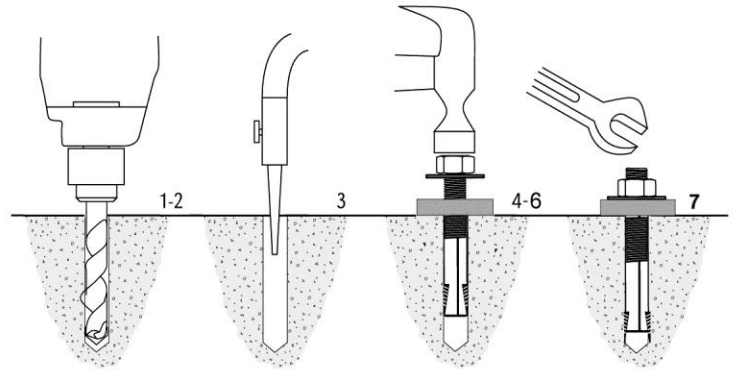


ORDER INFORMATION

Catalog Number	Anchor Diameter & Length (in)	Minimum Embedment (in)	Thread Length (in)	Quantity Box/ Carto
1413	1/4 x 1 3/4	1	1/2	100/600
1423	1/4 x 2 3/4	1	1/2	100/600
1430	1/4 x 3	1	1/2	100/600
5620	5/16 x 2	1 1/4	5/8	100/600
5630	5/16 x 3	1 1/4	5/8	100/600
3820	3/8 x 2	1 1/2	3/4	100/600
3823	3/8 x 2 3/4	1 1/2	3/4	100/600
3832	3/8 x 3 1/2	1 1/2	3/4	50/300
3850	3/8 x 5	1 1/2	3/4	50/300
3860	3/8 x 6	1 1/2	3/4	50/300
1223	1/2 x 2 3/4	2	1	50/300
1232	1/2 x 3 1/2	2	1	50/300
1250	1/2 x 5	2	1	25/150
1260	1/2 x 6	2	1	25/150
1270	1/2 x 7	2	1	25/150
5832	5/8 x 3 1/2	3	1 1/4	25/150
5842	5/8 x 4 1/2	3	1 1/4	25/150
5850	5/8 x 5	3	1 1/4	20/120
5860	5/8 x 6	3	1 1/4	15/90
5870	5/8 x 7	3	1 1/4	15/90
3440	3/4 x 4	3	1 1/2	18/108
3450	3/4 x 5	3	1 1/2	12/72
3460	3/4 x 6	3	1 1/2	12/72
3470	3/4 x 7	3	1 1/2	10/60
3482	3/4 x 8 1/2	3	1 1/2	10/30
3410	3/4 x 10	3	1 1/2	10/30
7880	7/8 x 8	4 1/2	1 3/4	10/30
7810	7/8 x 10	4 1/2	1 3/4	10/30
7812	7/8 x 12	4 1/2	1 3/4	5/15
1080	1 x 8	5 1/2	2	10/30
1010	1 x 10	5 1/2	2	5/15
1012	1 x 12	5 1/2	2	5/15

INSTALLATION INSTRUCTIONS – MOHAWK LIFTS

1. Drill the hole perpendicular to the work surface.* To assure full holding power, do not ream the hole or allow the drill to wobble.
2. Drill the hole deeper than the intended embedment of the anchor, but not closer than two anchor diameters to the bottom (opposite) surface of the concrete.
3. Clean the hole using compressed air and a nylon brush. A clean hole is necessary for proper performance.
4. For ease of installation, make certain that the spear heads are located up against the wedge pockets.
5. Turn the nut on to the anchor until contact is made with the top of the spears and the bottom of the washer. Insert anchor into hole.
6. Tap anchor into hole with a 2 1/2 lb. hammer until the washer rests solidly against fixture.
7. Tighten the nut to not less than 3 full turns but not more than 5 turns past the hand tight position. Use of an Impact wrench for Installation of the anchor is NOT recommended.

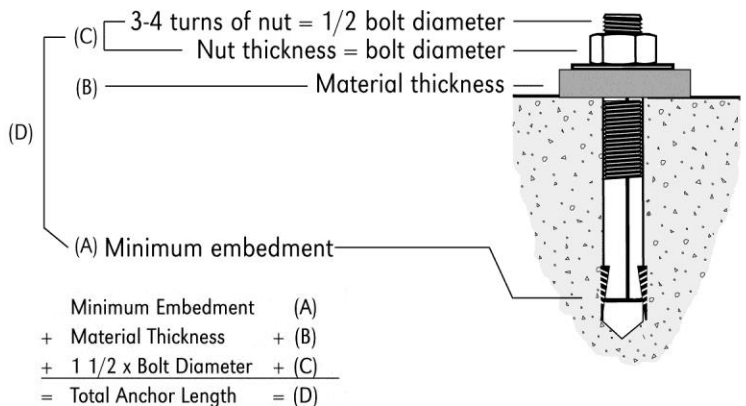


INSPECTION & MAINTENANCE INSTRUCTIONS







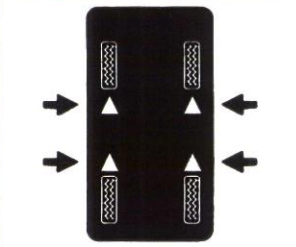


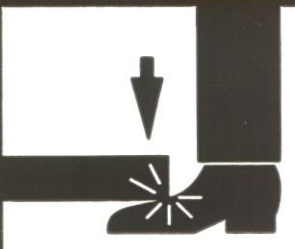
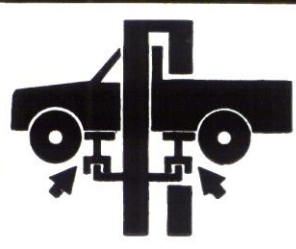
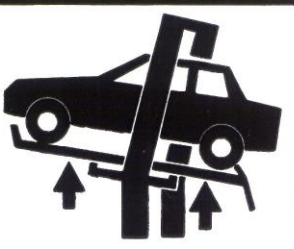
1. Verify torque on anchors to 85 Ft. Lbs. for future/annual inspections.

* Always wear safety glasses. Follow the drill manufacturer's safety instructions. Use only solid carbide-tipped drill bits meeting ANSI B212.15 diameter standards as listed on back cover.

LENGTH SELECTION GUIDE



REV: 11/06

<p>⚠ WARNING</p>  <p>Clear area if vehicle is in danger of falling.</p> <p>©</p>	<p>⚠ WARNING</p>  <p>Position vehicle with center of gravity midway between adapters.</p> <p>©</p>	<p>⚠ CAUTION</p>  <p>Lift to be used by trained operator only.</p> <p>©</p>	<p>⚠ CAUTION</p>  <p>Authorized personnel only in lift area.</p> <p>©</p>
<p>⚠ WARNING</p>  <p>Remain clear of lift when raising or lowering vehicle.</p> <p>©</p>	<p>⚠ WARNING</p>  <p>Avoid excessive rocking of vehicle while on lift.</p> <p>©</p>	<p>⚠ CAUTION</p>  <p>Use vehicle manufacturer's lift points.</p> <p>©</p>	<p>⚠ CAUTION</p>  <p>Always use safety stands when removing or installing heavy components.</p> <p>©</p>
<p>⚠ WARNING</p>  <p>Do not override self-closing lift controls.</p> <p>©</p>	<p>⚠ WARNING</p>  <p>Keep feet clear of lift while lowering.</p> <p>©</p>	<p>⚠ CAUTION</p>  <p>Use height extenders when necessary to ensure good contact.</p> <p>©</p>	<p>⚠ CAUTION</p>  <p>Auxiliary adapters may reduce load capacity.</p> <p>©</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>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL. 32903.</p> <p>They are protected by copyright. Set of labels may be obtained from ALI or its member companies.</p> <p>© 1992 by ALI, Inc. ALI/WL101w</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>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL. 32903.</p> <p>They are protected by copyright. Set of labels may be obtained from ALI or its member companies.</p> <p>© 1992 by ALI, Inc. ALI/WL101c</p>	

<p>SAFETY INSTRUCTIONS</p>  <p>Read operating and safety manuals before using lift.</p> <p>©</p>	<p>SAFETY INSTRUCTIONS</p>  <p>Proper maintenance and inspection is necessary for safe operation.</p> <p>©</p>
<p>SAFETY INSTRUCTIONS</p>  <p>Do not operate a damaged lift.</p> <p>©</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>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL 32903</p> <p>They are protected by copyright Set of labels may be obtained from ALI or its member companies</p> <p>© 1992 by ALI, Inc ALI/WL101s</p>

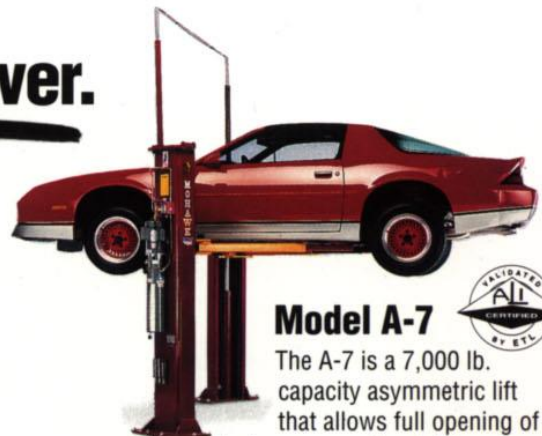
MOHAWK.

Because Quality Lasts Forever.



Model USL-6000

Full rise, space-saving, no-post, portable scissors lift, offers full under-car access.



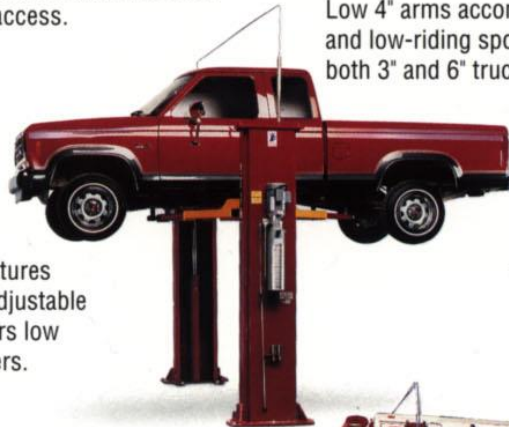
Model A-7

The A-7 is a 7,000 lb. capacity asymmetric lift that allows full opening of

all vehicle doors as well as total undercar/underdash access, thanks to Mohawk's unique "clear-floor" design. Low 4" arms accommodate all imports and low-riding sports cars. Includes both 3" and 6" truck adapters.

Model System I

The 9,000 lb. capacity System I, like all Mohawk lifts, features Mohawk's patented hydraulic equalization system with adjustable overhead (or optional underground) hydraulic lines. Offers low 3 1/2" swing arms and comes standard with truck adapters.



Model LMF-12, TP-15, TP-18, TP-26 & TP-30

These 12,000 to 30,000 lb. capacity models are the ideal heavy-duty lifts for up to Class VI trucks. Mohawk's unique "clear floor" design makes these the perfect lifts for all fleet applications. Truck adapters are standard equipment.



Model LMF-12



Model TR-50

TR-Series Ramp Style Lifts

Standard models from 25,000 up to 125,000 lbs. for total under-vehicle access.

Ramp lengths from 20' to 50'. Completely operated by a single technician, and features fully interlocked, redundant safety systems.

www.mohawklifts.com

MOHAWK



Mohawk Industrial Park • P.O. Box 110
Amsterdam, NY 12010

1-800-833-2006 or 518-842-1431

FAX 518-842-1289



SEND US YOUR PHOTOS!

MOHAWK IS ALWAYS INTERESTED IN SEEING HOW YOUR LIFTS ARE USED. WE HAVE CREATED AN ON-LINE PHOTO DATABASE FOR CUSTOMERS TO VIEW OUR LIFTS IN USE.



VISIT WWW.MOHAWKLIFTS.COM/PR/ AND MAYBE WE CAN ADD YOUR PHOTOS TO OUR COLLECTION.
(JPG FORMATS PREFERED)

E-MAIL YOUR PHOTOS AND COMMENTS TO:
PHOTOS@MOHAWKLIFTS.COM

BEST REGARDS & HAPPY LIFTING!

YOUR FRIENDS AT MOHAWK LIFTS