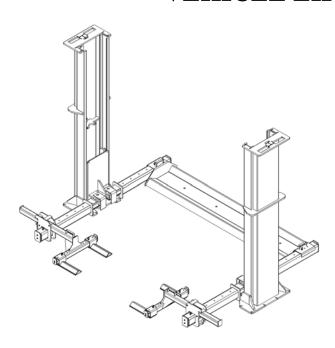




MODEL TL-7 Turf Lift

7,000 LB. CAPACITY TWO POST VEHICLE LIFT MANUAL



- **☑** INSTALLATION
- **☑** OPERATION
- ☑ MAINTENANCE
- ✓ PARTS



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.

AMSTERDAM, NY 12010

MADE IN THE USA

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

TL-7-Master-6-2006.doc Rev Date 6/13/2006 Part #601-800-269 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)

MOHAWK MODEL TL-7 **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.

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

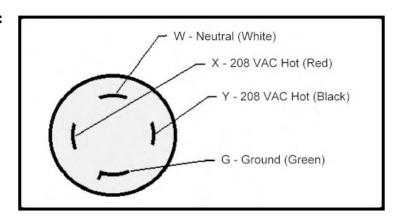
Cord Size: 12/4 Cord Ampacity: 20 Amps

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.

	D	histributor Place Card Here	
Please have thi		el and serial number w	hen calling for serv

OR CONTACT:

Serial Number _____

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

MOHAWK WARRANTIES

EFFECTIVE DATE: 3/2/2006 *

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 FAULTY 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 DOWNTIME EXPENSES INCURRED WHEN UNIT IS IN REPAIR. 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.

STRUCTURAL COMPONENTS (ALL LIFTS):

ALL STRUCTURAL AND MECHANICAL COMPONENTS OF THIS UNIT ARE GUARANTEED FOR THE BELOW STATED TIME FRAME, SPECIFIC TO MODEL LISTED, FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

<u>5-YEAR:</u> MODELS A-7, SYSTEM IA, SYSTEM IA-10, TOMAHAWK-9000, LMF-12, TP-15, TP-16, TP-18, TP-20, TP-26, TP-30, & TL-7.

<u>3-YEAR:</u> MODELS TR-19, TR-25, FL-25, 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 HR-6, TD-1000, CT-1000, USL-6000.

POWER UNIT (ALL LIFTS):

ALL POWER UNIT COMPONENTS (MOTOR, PUMP AND RESERVOIR) ARE GUARANTEED FOR TWO YEARS FOR PARTS (ONE YEAR LABOR), FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

HYDRAULIC CYLINDERS (MODEL SPECIFIC LIFTS):

SEE MOHAWK'S "EXTENDED LIFETIME CYLINDER WARRANTY" FOR SPECIFIC WARRANTY PROVISIONS FOR HYDRAULIC CYLINDERS. THE "EXTENDED LIFETIME CYLINDER WARRANTY" IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: A-7, SYSTEM IA, SYSTEM IA-10, LMF-12, TP-15, TP-18, TP-20, TP-26, TP-30. ALL OTHER MODELS ARE GUARANTEED FOR TWO YEARS PARTS AND ONE YEAR LABOR (EXCEPT HR-6, WHICH IS ONE YEAR PARTS ONLY), FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

ELECTRICAL COMPONENTS (ALL LIFTS):

ALL ELECTRICAL COMPONENTS (EXCLUDING MOTOR) ARE GUARANTEED FOR ONE YEAR FOR PARTS AND LABOR, FROM THE DATE OF INVOICE, 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 AND LABOR, FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

STANDARD OPTIONS (ALL LIFTS):

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

SPECIAL AND/OR CUSTOMIZED LIFTS AND OPTIONS:

ALL "SPECIAL" LIFTS AND/OR "CUSTOMIZED" OPTIONS ON THIS UNIT ARE GUARANTEED FOR ONE YEAR FOR PARTS ONLY (EXCLUDING LABOR), FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

WARRANTY EXCEPTIONS (ALL LIFTS):

ADJUSTMENTS: THIS WARRANTY DOES NOT COVER CASUAL AND ROUTINE ADJUSTMENTS SUCH AS, BUT NOT LIMITED TO: FITTINGS, J-BAR ADJUSTMENTS, 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 SUSPENDED UNTIL THE LIFT CONDITION IS PROVEN TO BE TO MOHAWK'S SATISFACTION (ANY CURRENT CLAIMS WILL NOT BE PAID UNTIL THIS REQUIREMENT IS MET). 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, 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.

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

CONTENTS

TEXT

	PAGE
APPENDAGES	6
SPECIFICATIONS	
PACKING LIST	
RECOMMENDED TOOL LIST	
BEFORE INSTALLING A LIFT / WEJ-IT INSTALLATION	10
INSTALLATION INSTRUCTIONS	
SAFETY TIPS	13
LIFT FINAL CHECKOUT	
2-POST LIMITATIONS AND ADAPTER USAGE	15
PRE-OPERATION CHECKS AND LIFT PROCEDURES	16
MAINTENANCE PROCEDURES	17
CHAIN INSPECTION AND MAINTENANCE	18
CABLE INSPECTION AND MAINTENANCE	
TROUBLE SHOOTING	20,21
SERVICE CHART	
MAINTENANCE CHART	22

FIGURES / DIAGRAMS

	FIGURE	PAGE
TL-7 DIMENSIONS	1	24
FLOOR MODIFICATION_	2	25
BAY SIGHT LAYOUT / INSTALLATION DIMENSIONS		
CARRIAGE STOP ASSEMBLY	4	27
WEJ-IT INSTALLATION	5,6,7	28,29,30
POST-LEVELING	8	31
POST-SHIMMING	9	32
BLEEDER VALVE ASSEMBY	10	33
CYLINDER SHIMS	11	34
UNEVEN FLOORS	12	35
POWER UNIT	13	36
CHAIN BREAK SAFETY CABLE	14	37
HYDRAULIC SCHEMATIC	15	38

DAGE

PARTS

	FIGURE	PAGE
TL-7 ASSEMBLY	ZZ645-B	40
FORK ASSEMBLY	ZZ645-C	41
GOLF/TURF PARTS PACKING	007-012-003	42
MAIN SIDE ASSEMBLY	MAN275	43
OFF SIDE ASSEMBLY	MAN276	44
HYDRAULIC SYSTEM	MAN201	45
CARRIAGE ASSEMBLY	MAN277	46
LOCK BODY ASSEMBLY	MAN252	47
YOKE ASSEMBLY	MAN204	48
CYLINDER CLAMPS	MAN278	49
LEG WELDMENT / LINE SUPPORTS / CARRIAGE STOPS	MAN207	50
TAG & DECAL LOCATIONS	007-012-006	51
MAIN SIDE CYLINDER ASSEMBLY	MAN209	52
OFF SIDE CYLINDER ASSEMBLY	MAN210	53
BLEEDER VALVE ASSEMBLY	MAN213	54
SMALL PARTS BAG	MAN231	55
PARTS BOX	MAN279	56
PARTS BOX #2	007-012-005	57
CHAIN COVER ASSEMBLY	MAN251	58
DIVERTER VALVE ASSEMBLY	MAN235	59

NEW SLAB RECOMMENDATIONS

	PAGE
SLAB REQUIREMENTS & NEW SLAB RECOMMENDATIONS	60-68

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 4-1/2" 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 REOUIREMENTS 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.

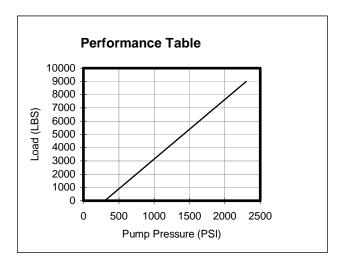
LIFT SPECIFICATIONS

TL-7 SPECIFICATIONS

LIFT TYPE / TWO POST	ELEC/HYDRAULIC
LIFTING CAPACITY	7,000 LBS.
CAPACITY PER FORK ARM	1750 LBS.
TROUGH CAPACITY	3,000 LBS.
LIFTING SPEED APPROX.	45 SECONDS
LIFTING HEIGHT	72 INCHES
OVERALL WIDTH	142-3/8 INCHES
WIDTH BETWEEN POST	120 INCHES
POST HEIGHT	104 INCHES
OVERHEAD HYDRAULIC LINES	144 INCHES
SHIPPING WEIGHT	3,000 LBS.

POWER UNIT SPECIFICATIONS

BRAND NAME	MONARCH
MODEL	M-4509-0100
POWER UNIT TYPE	VERTICAL
MOTOR VOLTAGE	208 / 230
F.L.A. AT RATED CAPACITY	13.9 / 13
MOTOR HORSEPOWER	2 1/2
MOTOR PHASE	SINGLE
MOTOR CYCLE / HERTZ	60
MOTOR SPEED (R.P.M.)	3450
PUMP FLOW (G.P.M.)	2.39 @ 3450 R.P.M.
RELIEF VALVE SETTING	2800 P.S.I.
WORKING PRESSURE	2500 P.S.I.
RESERVOIR CAPACITY	2.5 GALLONS
HYDRAULIC FLUID MEDIUM	DEXRON III



SUGGESTED SITE SELECTION / BAY SIZE

WIDTH	DEPTH	HEIGHT
15 FEET	20 FEET	12 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	DRILL	DRILL SIZE	TORQUE
	DEPTH	SIZE	MIN. MAX.	
5 IN.	THRU	3/4 IN.	.775 IN787 IN.	SEE
				ANCHOR
				SPECS

PRE-EXISTING FLOOR REQUIREMENTS

MINIMUM	MINIMUM COMPRESSIVE	MINIMUM
THICKNESS	STRENGTH	AGING
4 - 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	CUBIC
	WIDTH X LENGTH	YARDS
12 INCHES	48 INCH x 161 INCH	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 (USE SYSTEM IA INFORMATION).

<u>TL-7 PACKING LIST</u> *** ALSO SEE DRAWINGS MAN231 / MAN232 IN PARTS MANUAL ***

ORDER NUMBER	PART NUMBER	PART DESCRIPTION	QTY.
	009-010-015	PARTS BOX CONTENTS	1
423	009-010-009	BLEED VALVE ASSEMBLY	1
559	009-010-115	CARRIAGE STOP (DRILLED)	1
460	601-170-008	HUBBLE CONNECTOR (FEMALE)	1
	007-012-010	MANUAL, TL-7	1
622	009-010-059	TUBING ASSEMBLY, 13-3/4 LG	1
482	600-690-008	LOCK NUT, 1-3/8-12 NF	4
623	007-007-075	SHIM BAG	1
	600-690-017	LOCK NUT, JAM 1-3/8-12 NF	4
284	009-010-071	SMALL PARTS BAG	1
112	601-630-001	SPRAY PAINT (RED)	1
113	601-630-002	SPRAY PAINT (YELLOW)	1
281	009-010-114	SWING ARM PIN	4
	600-670-002	WEJ-IT ANCHOR (3/4 x 5)	16
284	009-010-071	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	8
621	600-710-014	WASHER, 1-3/8 SAE FLAT	8
021	601-310-005	BREATHER CAP	1
094	601-420-011	FITTING, DOUBLE MALE UNION # 6 JIC	4
409	601-710-001	DOUBLE LINE CLIP	6
658	600-710-010	WASHER, FLAT, 1" (ARM RESTRAINT)	4
595	600-710-003	WASHER, FLAT, 5/16	4
593	600-690-001	LOCK NUT, 5/16-18 NC	4
585	600-640-001	BOLT, 5/16-18 NC x 1" LG	4
608	601-420-052	ELBOW, 90 DEG, #6 JIC TO #6 JIC	1
	600-710-006	WASHER, FLAT, FENDER, 5/16 ID X 1 ½ 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

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	BACK BOARD / CYLINDER RETAINER
7/16 IN	WRENCH	SWING ARM RESTRAINT ASSEMBLIES
1	RATCHET WRENCH	AS NEEDED
1	VICE GRIPS	AS NEEDED
1	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	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 & 3.

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. (USE SYSTEM IA INFORMATION IN TABLES).

LOCATE THE MAIN SIDE POST ON THE HIGH SIDE OF THE FLOOR IF A SLOPE IS NOTED, REFER TO FIGURE 12.

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.

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 & 3.

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 5, 6, & 7.
- REFERENCE ALL FIGURES PERTAINING TO DRILLING, WEJ-IT WARNINGS, AND INSTALLATION INSTRUCTIONS. REFER TO FIGURES 5, 6, & 7.
- 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 ON THE OUTSIDE OF THE MAIN 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.
- INSURE THE INSIDE DIMENSIONS BETWEEN THE MAIN AND OFF SIDE POST IS STILL CORRECT. 120 INCHES.
- DRILL EIGHT 3/4-INCH HOLES ON 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 & 3.

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 3.

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 3.

NOTE

 REFER TO FIGURE 9 FOR PLACEMENT AND BLEED VALVE ASSEMBLY.

ASSEMBLE THE HYDRAULIC LINES TO THE BLEED VALVE. ASSEMBLE THE TWO OVERHEAD HYDRAULIC LINES (FLAT ON THE FLOOR) USING THE FOUR DOUBLE MALE UNIONS. SEE FIGURE 9 & MAN201.

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. 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 TWO DOUBLE LINE CLIPS.

REMOVE THE BREATHER PORT PLUG ON THE POWER UNITS RESERVOIR AND DISCARD. REFER TO FIGURE 14.

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

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

INSERT THE FOUR ARMS INTO THE CARRIAGES, ASSEMBLE WITH ARM STOPS AND SECURE WITH CARRIAGE PINS AND NUTS. REFER TO ZZ645-B.

ENSURE THAT CARRIAGES ARE BOTH RAISING EVENLY PRIOR TO ASSEMBLING TROUGH ON LIFT (REFER TO BLEEDING PROCEDURE ON NEXT PAGE)!!

PLACE TROUGH OVER ONE END OF ARMS. ASSEMBLE FORK ARMS AND SECURE OVER OTHER END OF ARMS. REFER TO ZZ645-B & ZZ645-C.

BOLT END STOPS ON ENDS OF ARMS. REFER TO ZZ645-B.

SHIMMING FOR CHAIN TENSION

LIFT UP ON THE YOKE, MEASURE THE SPACE BETWEEN THE TOP OF THE CHROME ROD AND THE BASE OF THE YOKE. THIS WILL BE THE AMOUNT OF SHIMS REQUIRED. REFER TO FIGURE 10.

TO SHIM, MANUALLY LIFT THE CARRIAGE ONE-FOOT APPROX. AND LOWER THE CARRIAGE ONTO THE MECHANICAL SAFETY.

WARNING

 VISUALLY VERIFY SAFETY ENGAGEMENT BEFORE PROCEEDING.

PLACE THE CORRECT NUMBER OF SHIMS ON THE TOP OF THE CHROME ROD AND RE-INSTALL THE YOKE.

INSTALLATION INSTRUCTIONS

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 TWO MINUTES. (THIS WILL PURGE THE AIR FROM THE HYDRAULIC SYSTEM)

NOTE

LISTEN FOR THE PRESSURE RELIEF VALVE. <u>A NOTICEABLE INCREASE IN POWER UNIT VOLUME</u> THIS WILL INDICATE AN EXCESS OF SHIMS BENEATH THE YOKE ASSEMBLIES RESTRICTING THE MAIN OR OFF SIDE CYLINDERS FROM REACHING FULL STROKE. IF THIS OCCURS, REMOVE ONE SHIM FROM BENEATH THE YOKE.

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 7 & 8.

- 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 MAN235

 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.

- 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

- UNOBSTRUCTED CLEARANCE. DO NOT HIT OR RUN OVER LIFT ARMS, ADAPTERS, OR AXLE SUPPORTS. THIS COULD DAMAGE LIFT OR VEHICLE.
- 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.

LIFT FINAL CHECKOUT (AFTER INSTALLATION):

REV (2/9/2006)

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. VERIFTY 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.

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.

TL-7 USAGE LIMITATIONS:

ALL MOHAWK TL-7 LIFTS ARE FOR INDOOR USE UNLESS SPECIFICALLY QUALIFIED AND MODIFIED FOR A CUSTOM ENVIRONMENT.

ALL MOHAWK TL-7 LIFTS MUST ACCOMPLISH THREE MAIN CRITERIA IN ORDER TO LIFT A VEHICLE SAFELY:

- PROPER ENGAGEMENT WITH WHEELS. THE TL-7 IS DESIGNED TO LIFT VARIOUS TURF EQUIPMENT WITHIN THE RATED CAPACITY OF THE LIFT BY THE VEHICLE TIRES. IF SUITABLE TIRE CONTACT CANNOT BE REACHED OR ACHIEVED, THE VEHICLE MUST NOT BE RAISED WITH THE LIFT.
- 2. PLACEMENT OF VEHICLE ON LIFT ENSURE THAT THE CENTER OF GRAVITY OF THE VEHICLE LIES CENTERED BETWEEN THE POSTS. SHIFTING OF THE FORK ARMS AND TROUGH MAY BE NECESSARY TO ACHIEVE THIS.
- 3. **PROPER LOADING OF ARMS AND TROUGH.**INDIVIDUAL ARM CAPACITIES MUST NOT BE
 EXCEEDED. THE TROUGH CAPACITY MUST NOT BE
 EXCEEDED EITHER.

THIS LIFT IS SPECIFICALLY DESIGNED TO BE USED TO RAISE VARIOUS TYPES OF TURF EQUIPMENT WITHIN ITS RATED CAPACITY. DO NOT ATTEMPT TO RAISE OTHER TYPES OF VEHICLES WITHOUT FIRST REVIEWING THE THREE MAIN CRITERIA ABOVE.

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

THE FORKS ON THIS LIFT ARE INTENDED TO LIFT THE VEHICLE BY THE WHEELS ONLY! DO NOT USE THEM TO LIFT VEHICLE BY THE FRAME!

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.

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.

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 ARMS TO THE OUTSIDE OF THE UNIT.
- POSITION THE VEHICLE CENTERED BETWEEN THE POSTS.
 POSITION THE TROUGH AS NEEDED TO ALIGN THE VEHICLE COG (CENTER OF GRAVITY) BETWEEN THE POST.

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.

CAUTION:

IF SUITABLE TIRE CONTACT CANNOT BE REACHED OR ACHIEVED, THE VEHICLE MUST NOT BE RAISED WITH THE LIFT.

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.
- LOWER UNIT TO THE DESIRED WORKING HEIGHT.
- IF WORK IS COMPLETE, CONTINUE LOWERING THE UNIT UNTIL BOTH CARRIAGES ARE FULLY LOWERED.

MAINTENANCE PROCEDURES

-- TRAINDED 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.) 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.
- CYCLE UNIT TO FULL HEIGHT, AND BLEED APPROXIMATELY 30 SECONDS.

MONTHLY

- INSPECT LIFTING CHAINS AND COMPONENTS FOR DEFORMATION, WEAR OR CORROSION. SEE CHAIN INSPECTION AND MAINTENANCE PROCEDURE ON FOLLOWING PAGE.
- INSPECT SAFETY CABLES AND COMPONENTS FOR DEFORMATION, WEAR OR CORROSION. SEE CABLE INSPECTION AND MAINTENANCE PROCEDURE ON FOLLOWING PAGE.
- INSPECT ALL HYDRAULIC COMPONENTS FOR LEAKS, DEFORMATION, WEAR OR CORROSION.
- TIGHTEN ALL FASTENERS AND HYDRAULIC FITTINGS AS REQUIRED.
 - ALL O RING BOSS FITTINGS JAM NUTS ARE TO BE TIGHTENED TO 15-FOOT POUNDS TORQUE.
 - 2. ALL <u>PIPE</u> 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 TRAINING

- QUALIFY / RE-QUALIFY ALL PERSONNEL IN THE SAFE OPERATION OF THIS UNIT.
- VERIFY ALL FASTENERS TO PROPER TORQUE:
 ARM NUTS TO 1000 FT-LB
 CARRIAGE STOP FASTENERS TO 170 FT-LB
 CARRIAGE SIDE ROLLER NUTS TO 300 FT-LB
 LIFTING ROD NUTS TO 720 FT-LB
 CYLINDER TOP BOLT TO 720 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 A LIGHT LUBRICANT (WD-40).
- THE MAIN CARRIAGE BEARINGS ARE FACTORY LUBRICATED AND 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

- 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 LIFTING CHAINS, THOROUGHLY CLEAN, LUBRICATE AND RE-INSTALL. (REPLACE IF UNUSUAL OR EXCESSIVE WEAR IS NOTED) SEE CHAIN INSPECTION AND MAINTENANCE PROCEDURE ON FOLLOWING PAGE.
- 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.

CHAIN INSPECTION - MAINTENANCE PROCEDURES:

The following checks to be performed MONTHLY:

Inspect for contamination.

Visually inspect chain for areas of dirt/debris and any areas showing evidence of rust/corrosion. If dirty, clean chain using a light lubricant (WD-40) - 0.5 oz. per foot by spraying.

Inspect for corrosion.

If excessive rust or corrosion is witnessed, replace chain.

Inspect chain link pins.

Visually inpect link pins for wear on both ends, ensuring that pins retain links. If any links are loose or worn, replace chain.

Inspect chain links.

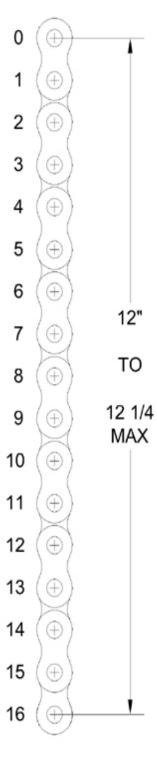
Inspect links for wear on surfaces in contact with yoke rollers. Inspect yoke rollers as well. If excessive wear is found, replace both chain and rollers.

Inspect for excessive chain stretch.

Measure 16 pitches of chain while taut (see picture to right). Dimension should be no more than 12 1/4. If longer, replace chain.

Note: It is a rule-of-thumb that when the chain is replaced, the yoke rollers are replaced as well.

File: Man133.dwg



CABLE MAINTENANCE & INSPECTION PROCEDURES:

The cables found on this lift are non-load holding and are part of the slack chain device on this unit.

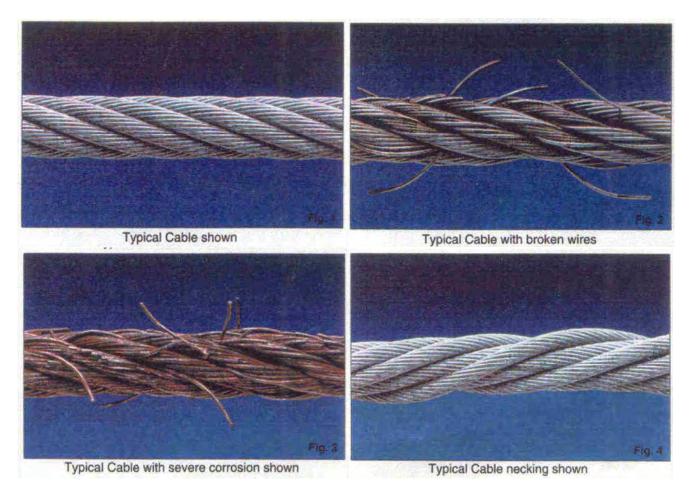
WARNING:

Failure to keep cables free of corrosive agents and solvents will lead to reduced service life and/or cable failure.

Maintenance: Cables should be kept free of corrosive agents, solvents, and road salts. If such agents are spilled or splashed onto cables, immediately rinse cables thoroughly with water, spray with WD-40 or equivalent, and wipe down with clean rag. Check these weekly.

Inspections:

1. Check cables for wear or damage. Any cable with broken wires, severe corrosion, excessive stretch, deformed strands, variations in diameter (necking), any change from normal appearance, or loose end crimps, must be replaced. If any area of the cable is found to be defective, the entire cable must be replaced. Refer to Figures 1, 2, 3, and 4 below:



- 2. Check sheaves (pulleys) for wear or damage, i.e. wobble (tilt), cracks, loose on pin, or excessive noise during operation. Ensure that sheaves spin freely. Replace defective parts if found.
- 3. Check for loose or missing sheave (pulley) pins.
- 4. Watch locking latches and slack cable device during lift operation to ensure that latches engage and disengage properly.

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.

HYDRAULIC SAFETY CHECK

NOTE: THE HYDRAULIC SAFETY CHECK IS TO BE PERFORMED WITH NO VEHICLE ON THE UNIT. CONTACT YOUR LOCAL MOHAWK DISTRIBUTOR OR THE MOHAWK FACTORY IF EITHER TEST FAILS.

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)

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	CONSULT 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 TO HEAVY TO BE RAISED						
	NOT LOWERING						
MECHANICAL LOCKS ENGAGED	RAISE UNIT. DISENGAGE MECHANICAL LOCKS.						
UNIT UNEVEN (SIDE TO SIDE)	RAISE UNIT TO FULL HEIGHT TO EQUALIZE. THEN LOWER OR USE DIVERTER VALVE TO EQUALIZE						
POSTS OUT OF SQUARE	VERIFY LEVEL ASSEMBLY. MAKE ANY AND ALL NECESSARY ADJUSTMENTS. SEE FIGURE 8 & 9.						
DEBRIS IN POSTS (TOOLS ETC.)	CLEAN UNIT						
OBSTRUCTION UNDER VEHICLE OR LIFT	REMOVE OBSTRUCTION.						
RULE OF THUMB: IF THE MAIN SIDE IS HIGH FLOOR. ALLOW TIME FO	RAISING UNEVEN H, RUN UNIT TO FULL HEIGHT. IF THE MAIN SIDE IS LOW, LOWER UNIT TO OR 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 CYLINDER SHIMS.) SEE "SHIMMING FOR CHAIN TENSION" SECTION. SEE FIGURE 11.						
POSTS OUT OF SQUARE	VERIFY LEVEL ASSEMBLY. MAKE ANY AND ALL NECESSARY ADJUSTMENTS. SEE FIGURE 8 & 9.						
CYLINDER SHIMS	VERIFY CYLINDER SHIMS. MAKE ANY AND ALL NECESSARY ADJUSTMENTS. SEE "SHIMMING FOR CHAIN TENSION" SECTION. SEE FIGURE 11.						
SHOP FLOOR UNEVEN	VERIFY PROPER INSTALLATION OF MAIN SIDE POST. MAIN SIDE TO BE ON HIGH SIDE. SEE FIGURE 12.						

TROUBLE SHOOTING, CONTINUED

POSSIBLE CAUSE	SOLUTION
	RAISING UNEVEN, CONTINUED
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.
BLEEDER VALVE	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 BLEEDER VALVE WILL NEED TO BE SERVICED OR REPLACED
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.
BLEEDER VALVE	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 BLEEDER VALVE WILL NEED TO BE SERVICED OR REPLACED
	EXTERNAL HYDRAULIC LEAKS HTEN 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.
N.	 MECHANICAL LOCK RE-ENGAGES
CHAIN BREAK SAFETY CABLE NEEDS ADJUSTMENT	TENSION IN CABLE MAY BE TO TIGHT. REFER TO FIGURE 14.
MI	ECHANICAL LOCK HARD TO PULL
CHAIN BREAK SAFETY CABLE NEEDS ADJUSTMENT	TENSION IN CABLE MAY BE TO TIGHT. REFER TO FIGURE 14.
FLIPPER STICKING ONTO LOCK BAR	APPLY A SMALL AMOUNT OF LUBRICANT TO THE LOCK BAR WHERE THE FLIPPER RIDES. (DO NOT USE HEAVY GREASE)

MODEL:	
SERIAL NUMBER:	
DATE OF INSTALLATION:	

SERVICE CHART

DATE	PART REPLACED / SERVICED	SERVICE COMPANY	SERVICED BY

MAINTENANCE CHART

DATE	MAINTENANCE PERFORMED	SERVICE COMPANY	SERVICED BY

MOHAWK

MODEL TL-7 Golf-Turf Lift

FIGURES & DIAGRAMS

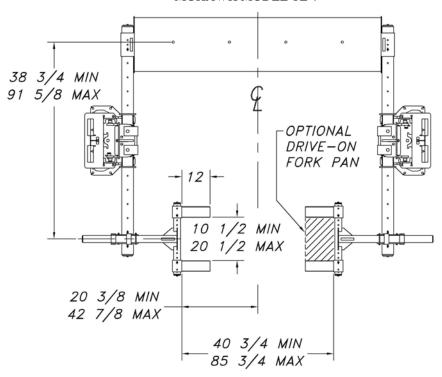


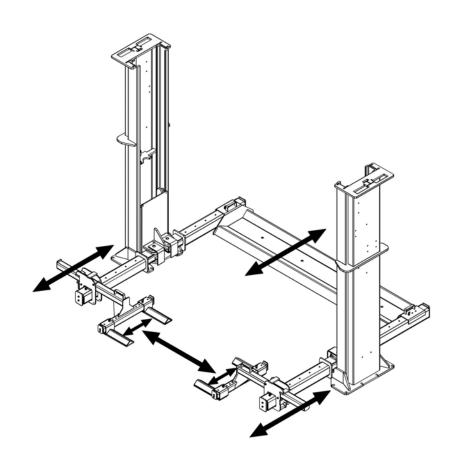
MOHAWK RESOURCES LTD.

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

MOHAWK MODEL TL-7





TL-7 GOLF-MOWER LIFT (CONVERTED SYSTEM-IA)

Figure 1

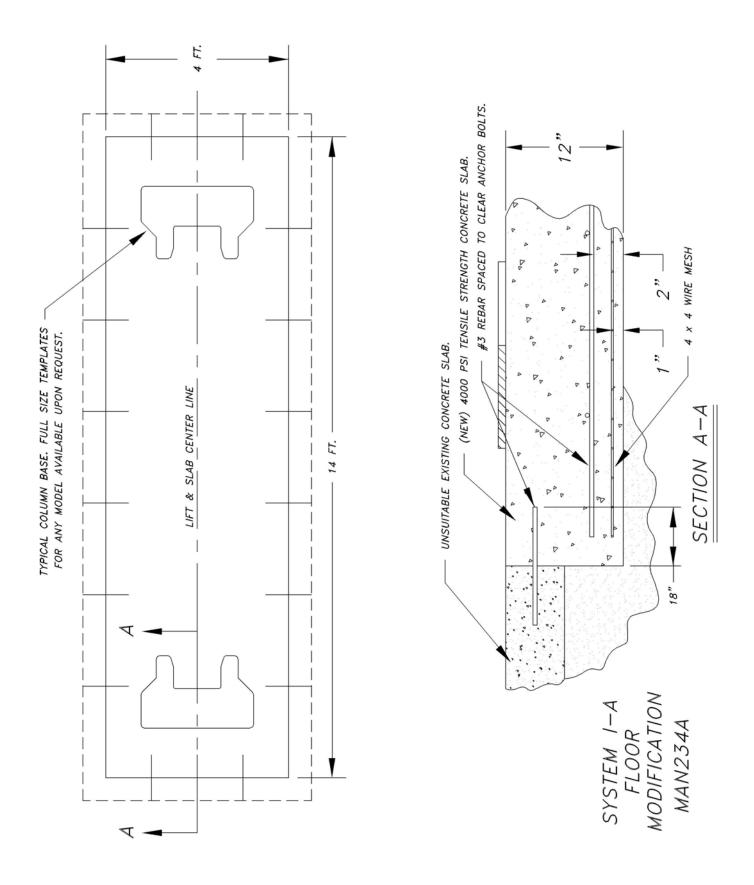


Figure 2

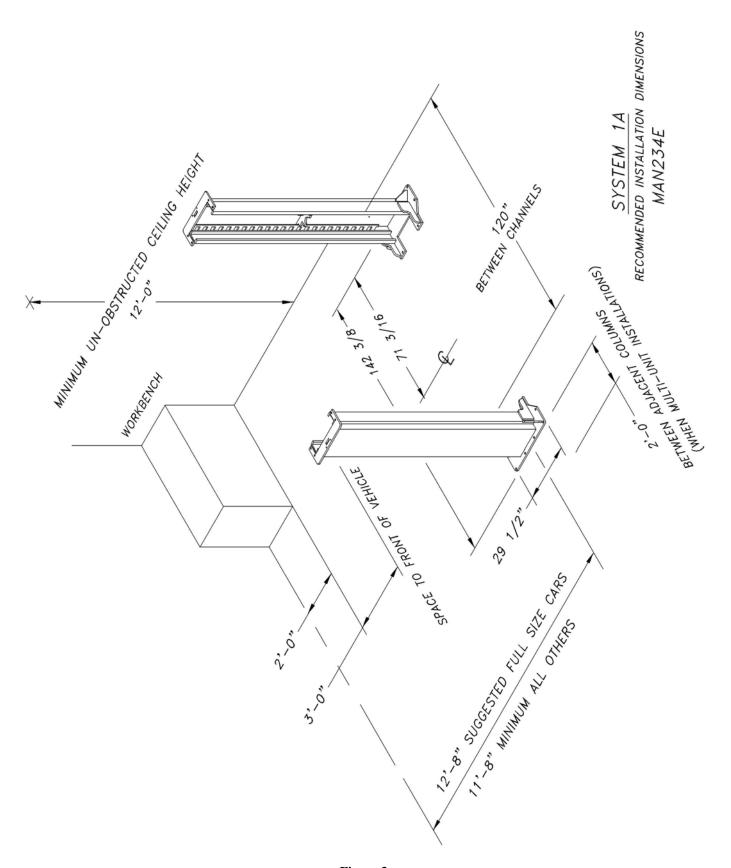
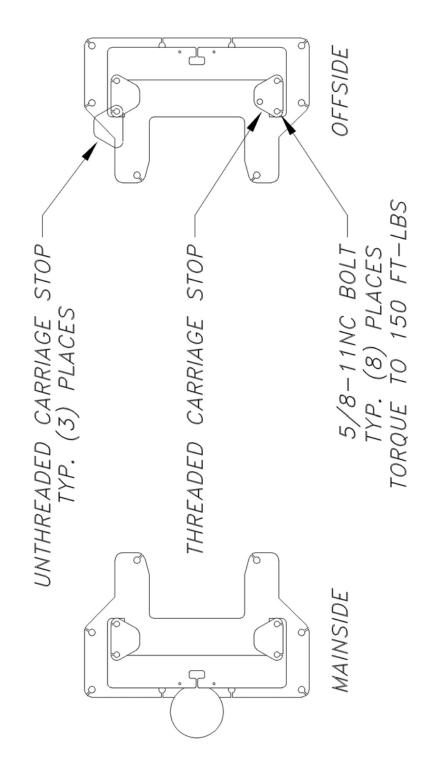


Figure 3

-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.



MAN234B

Figure 4

WEJ-IT INSTALLATION



USE HAND WRENCH ONLY

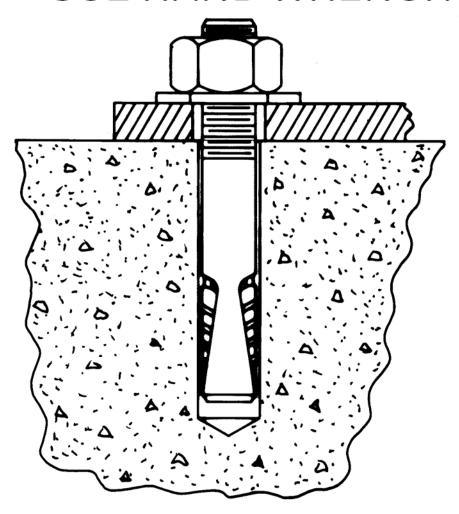


Figure 5



The Original wej-it Wedge Anchors

KEY FEATURES/BENEFITS

■ Time-Tested, Pr ven 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	QQZ-325C, Type II, Class 3
Specifications	(Clear Chromate added)
	FFS-325, Group II, Type 4, Class 1

MAXIMUM TENSILE AND SHEAR CAPACITY FOR STATIC LOADS

		LIMESTONI AGGREGAT		Unreinforced Stone Aggregate oncrete Zin Plated arbon Steel					Unreinforced Lightweight (Idealite)				
Anchor	Embed- 2000 psi		0 psi	Embed- 3000 psi			5000 psi		7000 psi		Embed- 5000 ps) psi
& Hole	ment	Tension	Shear	ment	Tension	Shear	Tension	Shear	Tension	Shear	ment	Tension	Shear
Size	(in)	(lbs)	(lbs)	(in)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(in)	(lbs)	(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, O; 1981.

EDGE DISTANCE AND SPACING REQUIREMENTS

Embedment (E) in	Spacing	Edge Distance		
Anchor Diameters (d)				
E < 6d (shallow)	3.50E	1.75E		
$6d \le E \le 8d \text{ (standard)}$	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.

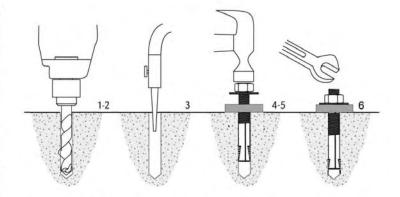


ORDER INFORMATION

Catalog	Anchor Diameter &	Minimum Embed-	Thread Length	Quantity Box/
Number	Length (in)	ment (in)	(in)	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	$1/4 \times 3$	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	$3/8 \times 5$	1 1/2	3/4	50/300
3860	$3/8 \times 6$	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	$5/8 \times 5$	3	1 1/4	20/120
5860	$5/8 \times 6$	3	1 1/4	15/90
5870	$5/8 \times 7$	3	1 1/4	15/90
3440	3/4 x 4	3	1 1/2	18/108
3450	$3/4 \times 5$	3	1 1/2	12/72
3460	$3/4 \times 6$	3	1 1/2	12/72
3470	$3/4 \times 7$	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	$7/8 \times 10$	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

- Drill the hole perpendicular to the work surface.* To assure full holding power, do not ream the hole or allow the drill to wobble.
- 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.
- Clean the hole using compressed air and a nylon brush. A clean hole is necessary for proper performance.
- 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.
- Tap anchor into hole with a 2 ½ lb. hammer until the washer rests solidly against fixture.
- Tighten the nut to 175 Ft. Lbs. maximum torque and 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 anchor is not recommended)



* 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

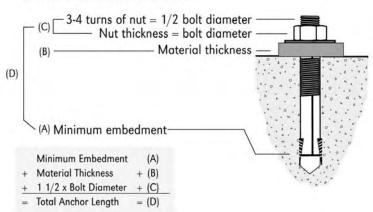
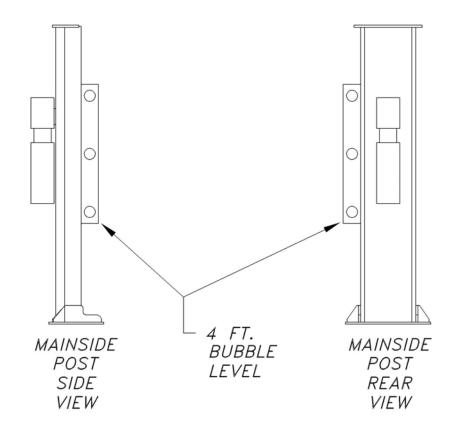


Figure 7



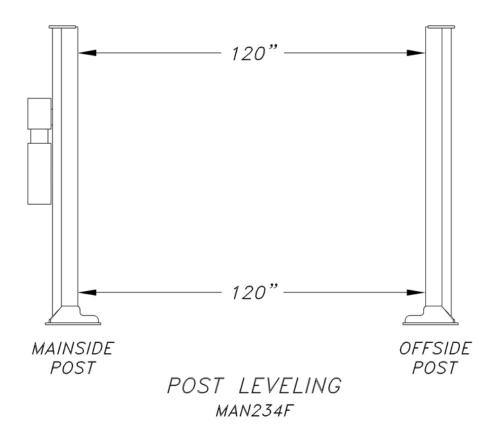


Figure 8

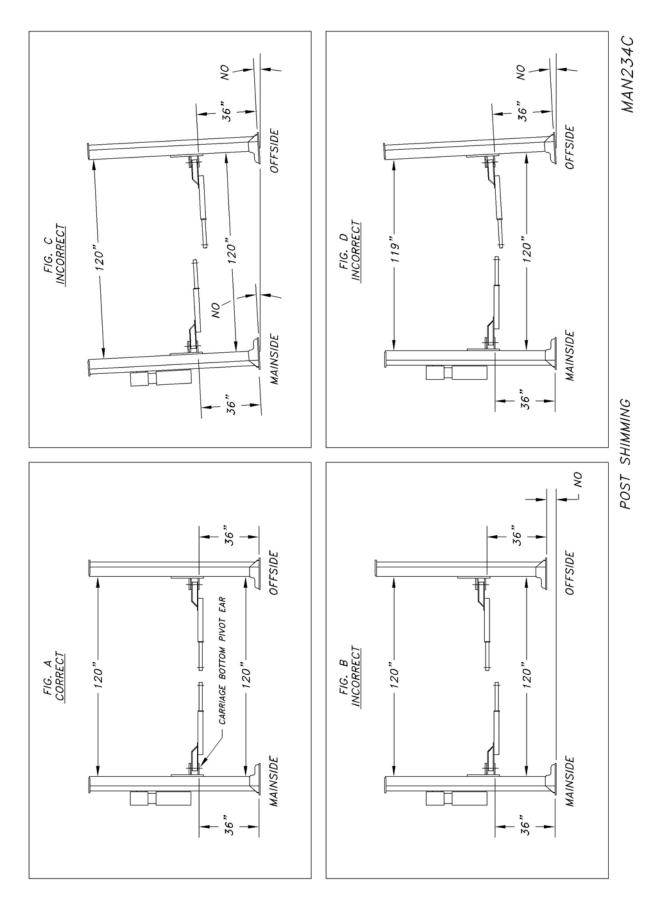


Figure 9

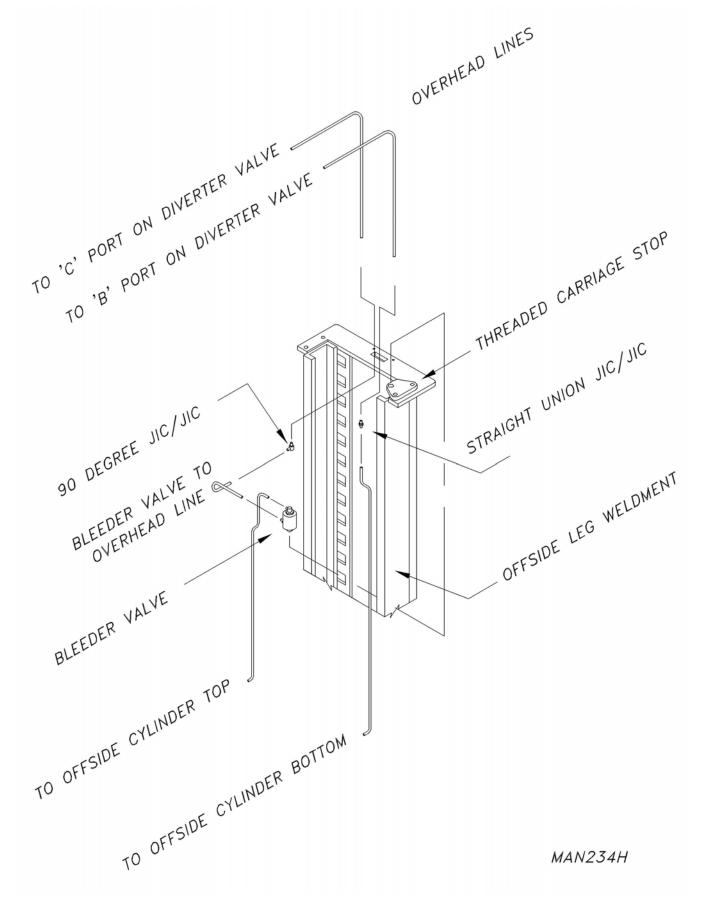
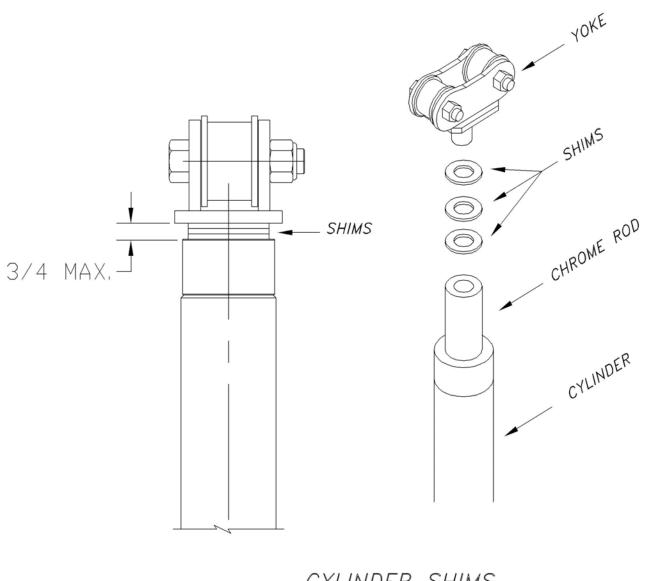


Figure10



CYLINDER SHIMS

MAN117D

Figure 11

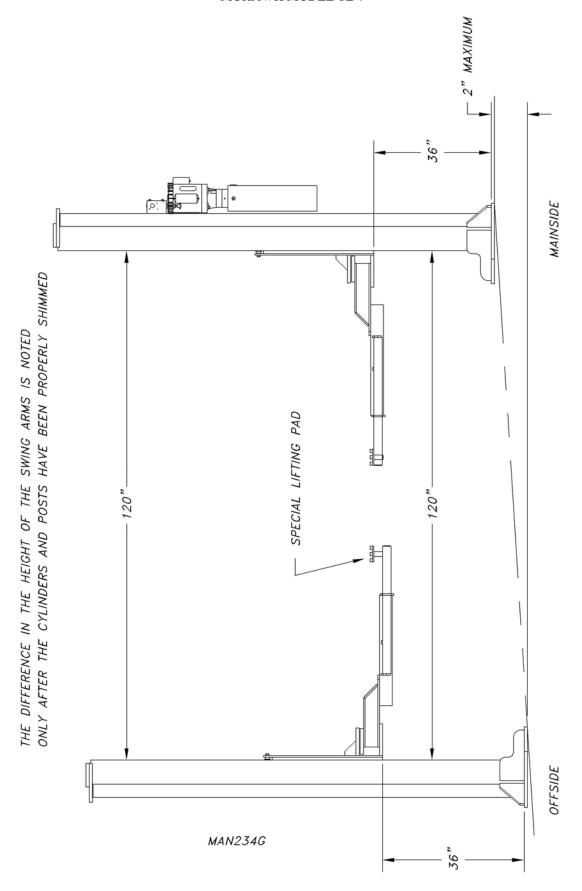


Figure 12

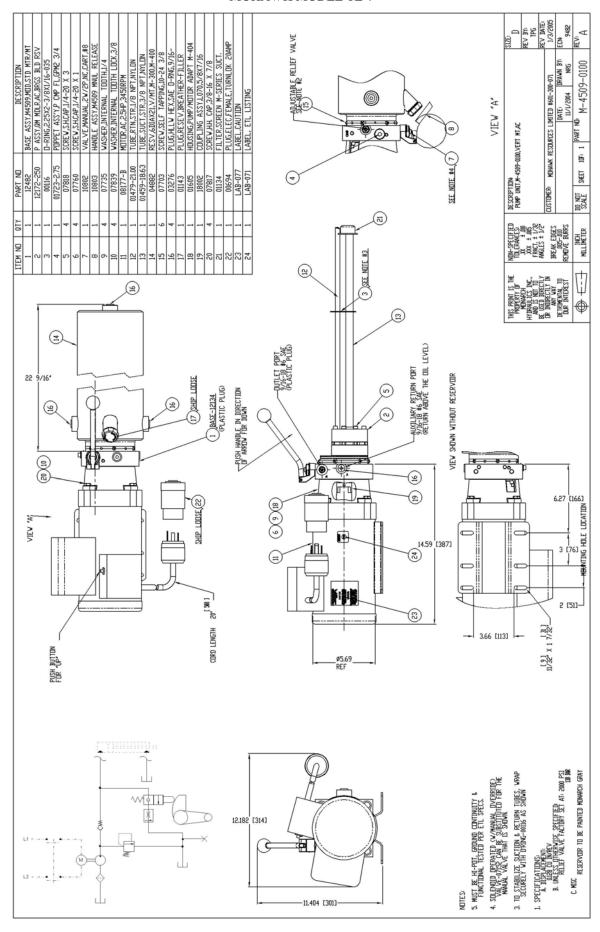


Figure 13

FOR SERVICING,

EYEBOLT

CHAIN BREAK INSPECTING AND SAFETY SYSTEM: REPLACING CHAIN BREAK MAN250.DWG **SAFETY CABLE:** 1. ROUTE CHAIN BREAK SAFETY CABLE AS SHOWN. 2. PULL LOCK RELEASE CABLE AND VERIFY SLIGHT TENSION IN CABLE. 3. RAISE AND LOWER TO ENSURE THAT TENSION OF CABLE DOES NOT RE-ENGAGE LOCKS. ADJUST EYELET IN BACK OF POST AS REQUIRED. 4. REFER TO CABLE INSPECTION AND MAINTENANCE PROCEDURES. REPLACE ANY CABLE THAT DOES NOT MEET INSPECTION CRITERIA IMMEDIATELY. 5. WARNING: DO NOT OPERATE THIS LIFT UNLESS THE CHAIN BREAK SAFETY CABLE IS PRESENT AND PERIODICALLY INSPECTED. FAILURE TO DO SO MAY COMPROMISE THE CHAIN BREAK SAFETY SYSTEM. SHEEVE SPRING **EYEBOLT** CABLE **EYEBOLT**

Figure 14

SECTION A-A

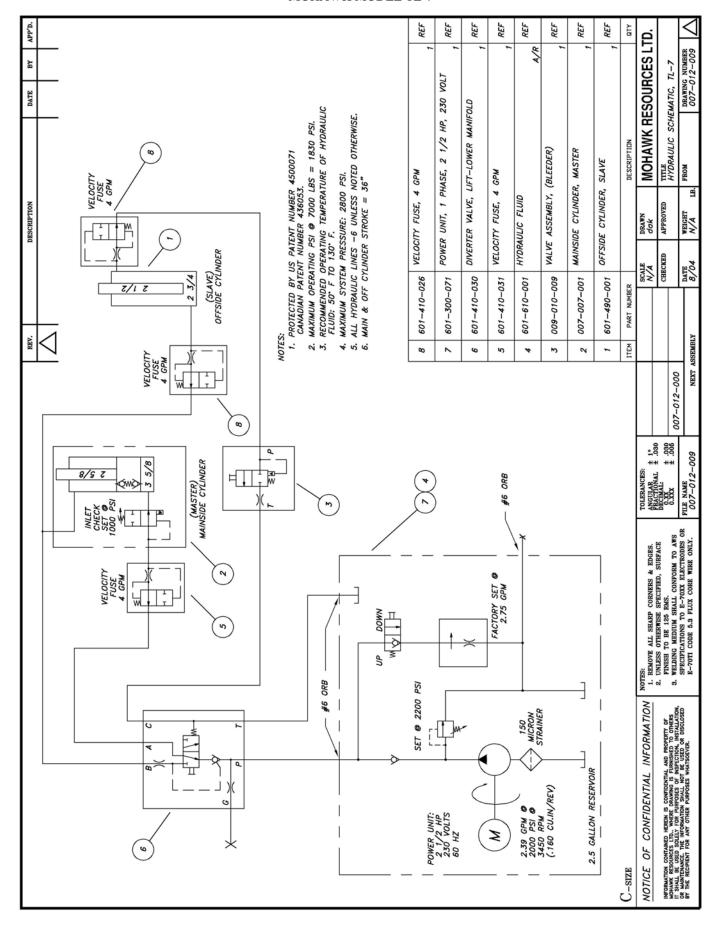


Figure 15

MOHAWK

MODEL TL-7 Golf-Turf Lift

PARTS MANUAL

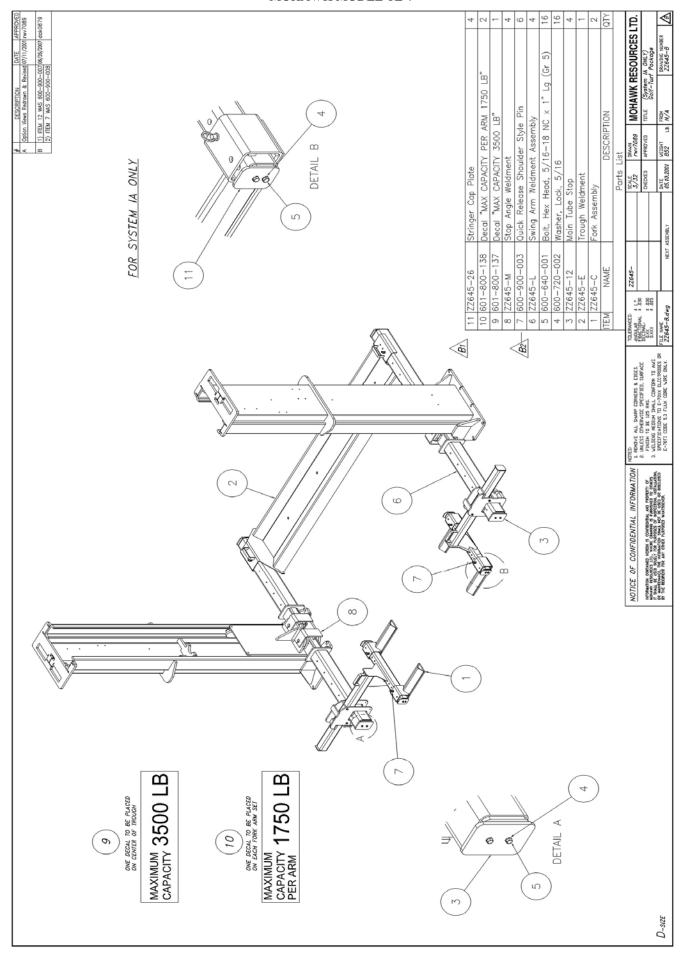


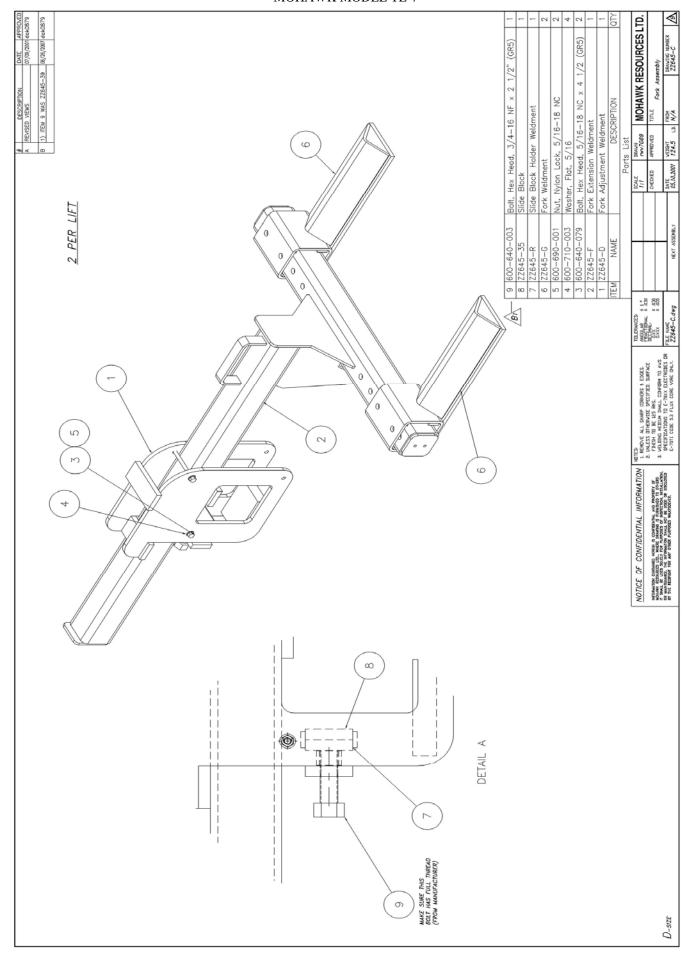
MOHAWK RESOURCES LTD.

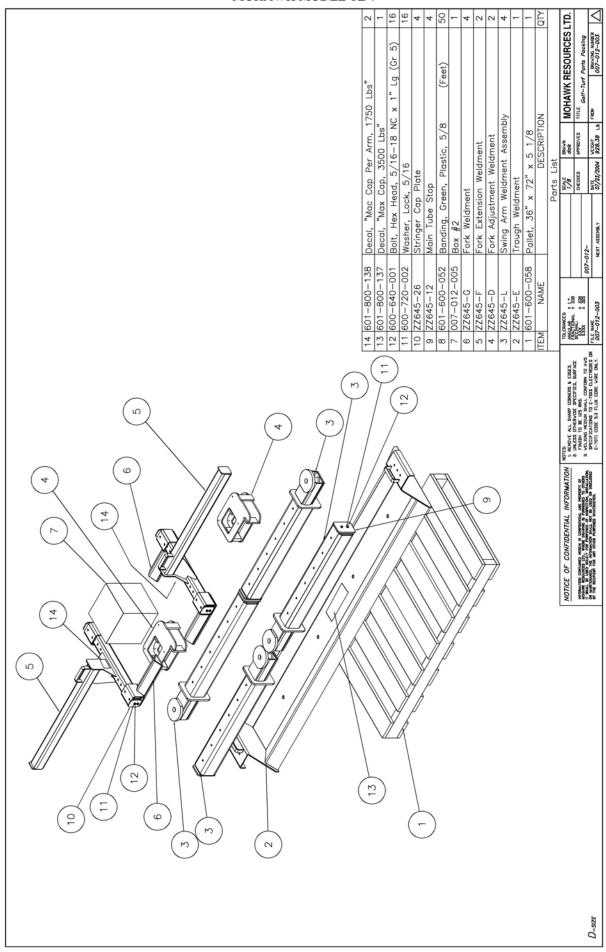
65 VROOMAN AVE. AMSTERDAM, NY 12010 **TOLL FREE:** 1-800-833-2006

LOCAL: 1-518-842-1431 **FAX:** 1-518-842-1289

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







TL—7 MAINSIDE ASSEMBLY FILE: MAN275 DATE: 6/06

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MAN275	20 600-680-006 NUT, PLAIN, 1/4-20 NC	19 600-660-005 EYEBOLT 18 END-840-028 SEBING	MAN251	16 007-007-174 RUBBER PAD	007-007-146	14 007-007-001 MAINSIDE CYLINDER ASSEMBLY 13 009-010-040 YOKE ASSEMBLY	12	020-0	9 MAN201 HYDRAULIC SYSTEM	-001	600-710-006	5 601-710-001 DOUBLE LINE CLIP 4 600-640-019 BOLT, 1/4-20 NC x 1 1/2", HEX HEAD CAP	-	2 600-710-003 WASHER, FLAT, 5/16	11EN PART NAMBER DESCRIPTION
			A REF			√		•	(BEF (6) REF) NE	Z)REF)	LINE CLIP ORIENTATION	
		•					(19)			_					(0)
										<u> </u>	7			•)

FILE: MAN276 DATE: 6/06

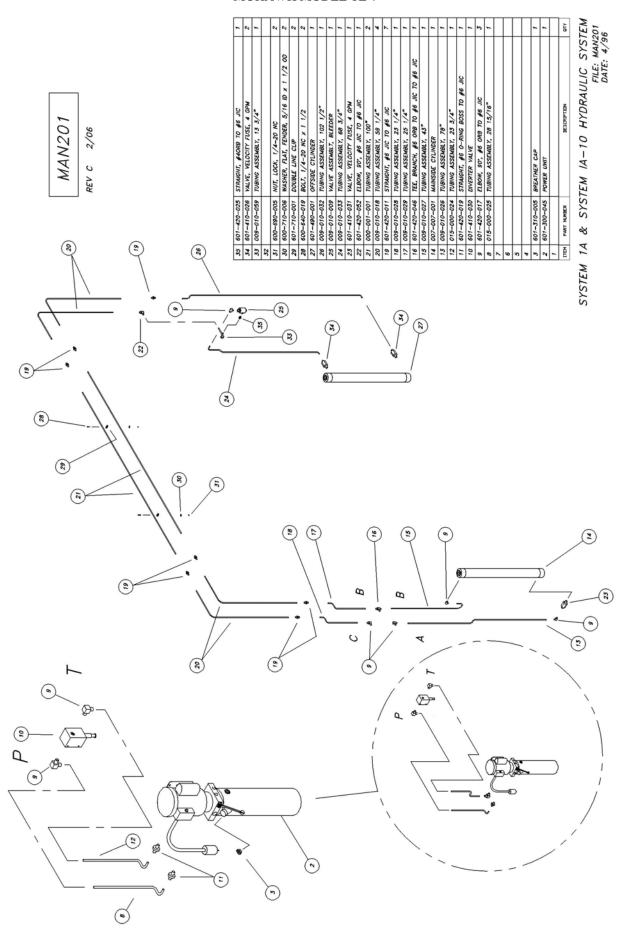
TL-7 OFFSIDE ASSEMBLY

 MANZO7
 LEG WELDMENT/LINE SUPPORT/CARRIAGE STOPS

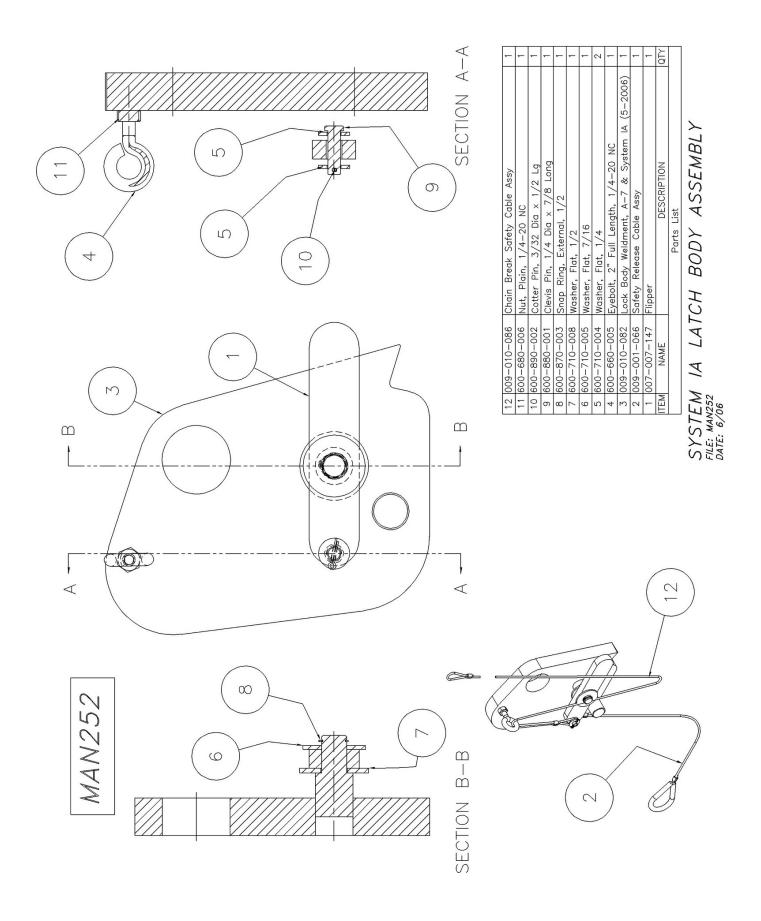
 600-640-019
 BOLT, 1/4-20 NC x 1 1/2" LG, HEX HEAD CAP

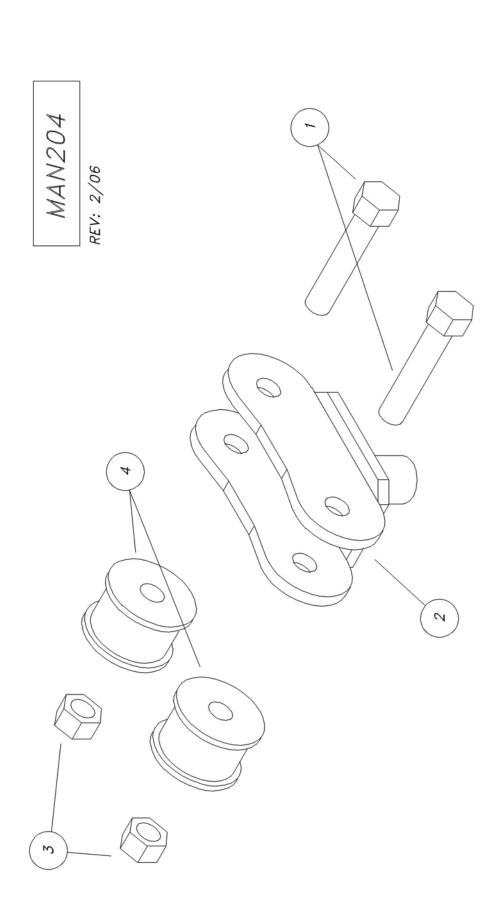
 601-710-001
 DOUBLE LINE CLIP
 600-710-006 WASHER, FLAT (FENDER) 5/16 ID x 1 1/2 0D 600-690-005 NUT, LOCK, 1/4-20 NC 009-010-084 CARRIAGE ASSEMBLY 600-660-002 EYEBULI 600-840-028 SPRING SYSTEM IA CHAIN COVER ASSEMBLY MAN276 13 | 600-680-006 | NUT, PLAIN, 1/4-20 NC 601-490-001 OFFSIDE CYLINDE 009-010-040 YOKE ASSEMBLY PART NUMBER - BACK PLATE OR LINE SUPPORT REF REF LINE CLIP ORIENTATION REF 9 (12)(13) J 6 **⊚** □ □ □ **⊙ @ === @**

44



FILE: MAN277 DATE: 6/06 BOLT, 7/16-14 NC x 2 1/2", HEX HEAD CAP CHAIN ATTACHMENT TO CHAIN BLOCK ON LEG ASSEMBLY QUANTITIES SHOWN ARE FOR (1) CARRIAGE TL-7 CARRIAGE ASSEMBLY COTTER PIN, 3/32 DIA x 1 1/2" LG CAM YOKE ROLLER, 1 1/2 DIA MASTER CHAIN LINK ASSEMBLY CHAIN, , 3 PITCHES, BL-646 CHAIN, BL-646, 73 PITCHES CARRIAGE ROLLER ASSEMBLY WASHER, FLAT, 1 3/8 SAE NUT, LOCK, 7/16-14 NC 007-007-178 WASHER (LOCK/FLIPPER) SNAP RING, #5100-137 13 | 009-001-083 | LATCH BODY ASSEMBLY WASHER, FLAT, 7/16 CARRIAGE WELDMENT TRIM-LOK, 60" LG 600-860-002 600-690-006 600-830-001 14 600-890-001 600-710-014 600-860-012 900-040-009 690-010-600 009-010-437 PART NUMBER (35) 10 0 CYLINDER, REF MAN277 9 12 (15)





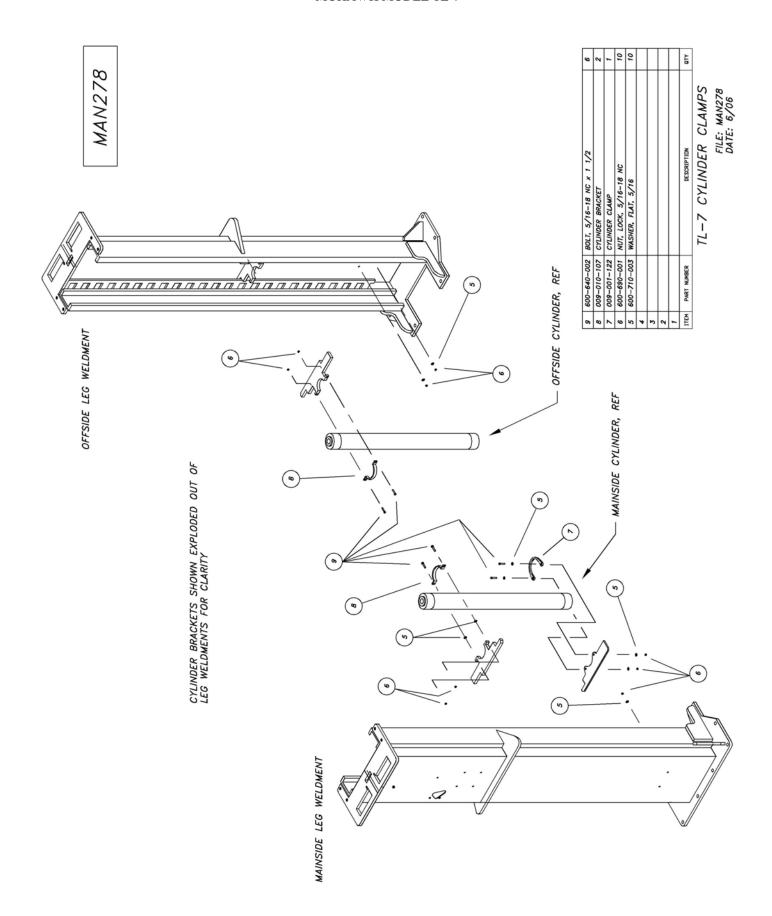
TWO (2) YOKE ASSEMBLIES PER LIFT

2	2	1	2	YTØ
600-860-005 BEARING, CAM YOKE ROLLER	600-690-003 NUT, LOCK, 3/4-16 NF	2 009-001-061 YOKE WELDMENT	1 006-000-139 BOLT, $3/4-16$ NF x 3 $3/4$ (MACHINED)	DESCRIPTION
600-860-005	600-690-003	009-001-061	006-000-139	PART NUMBER
4	2	2	1	ITEM

SYSTEM IA & SYSTEM IA-10 YOKE ASSEMBLY (009-010-040)

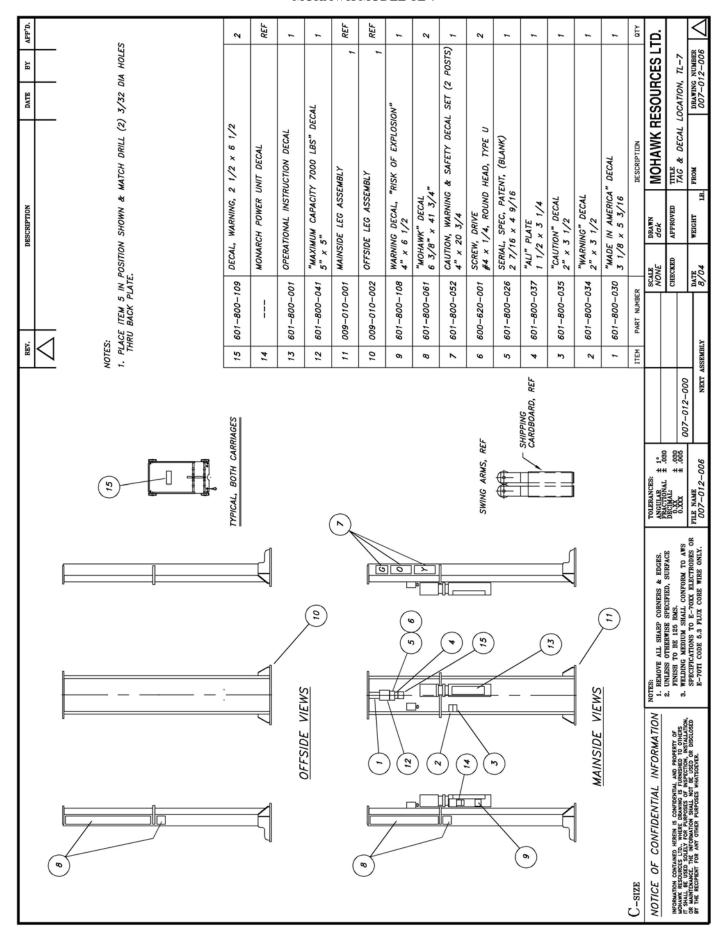
FILE: MAN204 DATE: 4/96

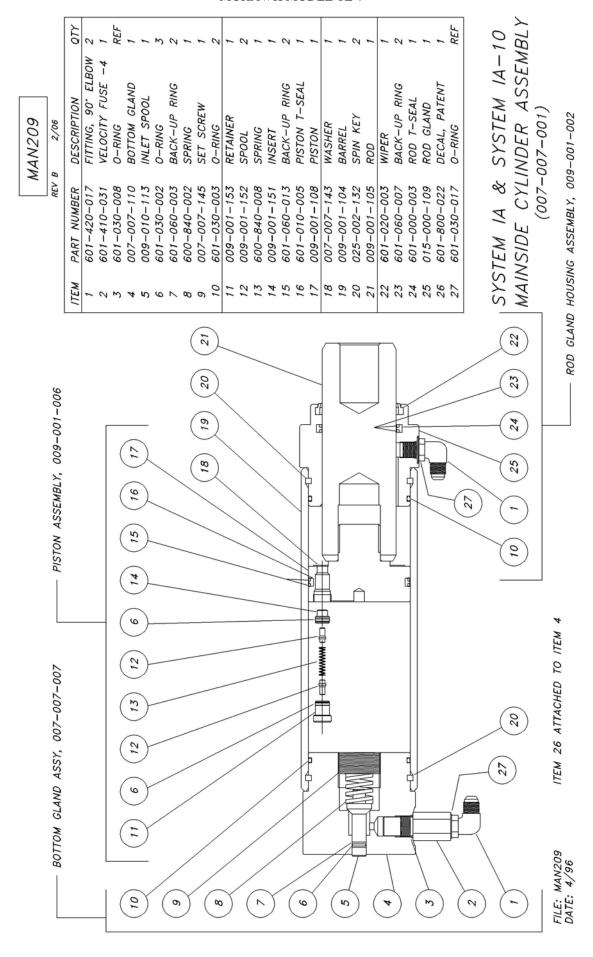
48

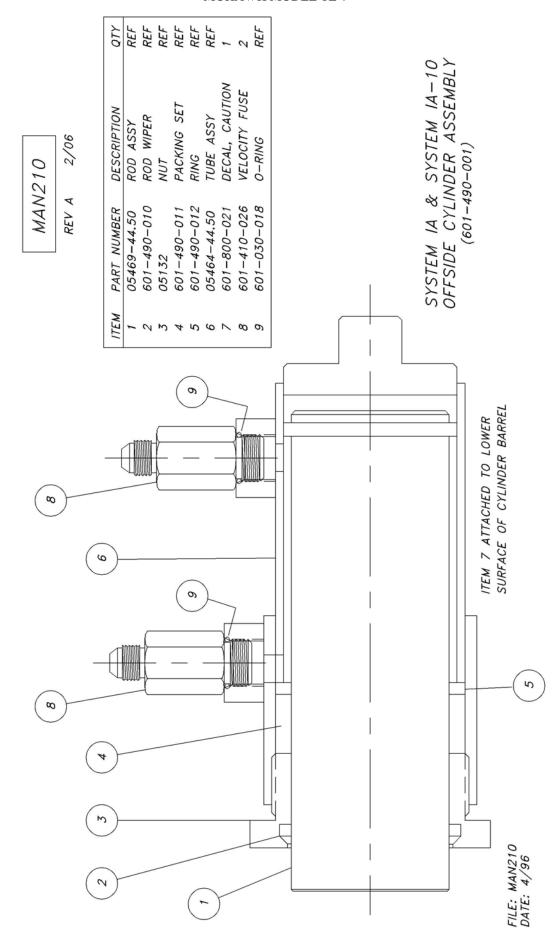


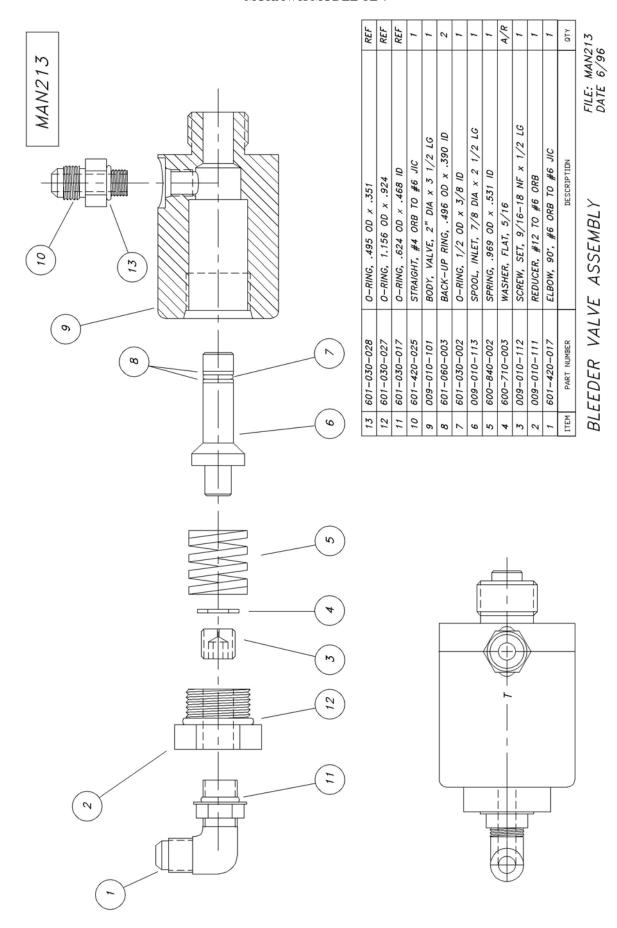
	1	1	1	1	8	8	8	3	4	8	4	2	QTY	702NA	100/1
MAN207 REV B 2/06 11) CARRIAGE STOP FOR BLEEDER VALVE	VALVE ASSEMBLY (BLEEDER VALVE)	CARRIAGE STOP	MAINSIDE LEG WELDMENT	OFFSIDE LEG WELDMENT	NUT, PLAIN, 5/8-11 NC	WASHER, LOCK, 5/8	BOLT, 5/8-11 NC x 2 1/2	CARRIAGE STOP	NUT, LOCK, 1/4-20 NC	WASHER, FLAT, 1/4	BOLT, 1/4-20 NC x 1 1/2	LINE SUPPORT	DESCRIPTION	LEG WELDMENT/LINE SUPPORTS/CARRIAGE STOPS SYSTEM 14 & SYSTEM 14-10	O I O I I I I I I I I I I I I I I I I I
6 11) CARRIAGE STOP	009-010-009	009-010-115	009-010-005	900-010-600	600-680-002	600-720-001	600-640-010	009-001-141	900-069-009	600-710-004	600-640-019	007-007-033	PART NUMBER	WELDMENT	
	12	11	10	6	88		9	5	4	3	2	1	ITEM	SYS)
	8			· //								100			

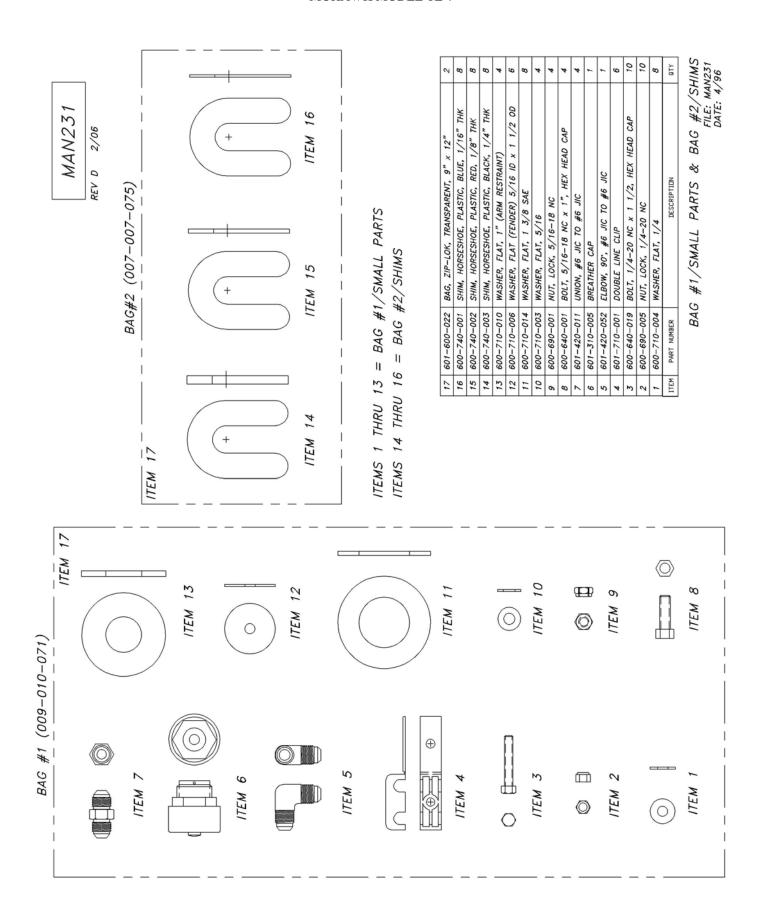
MOHAWK MODEL TL-7







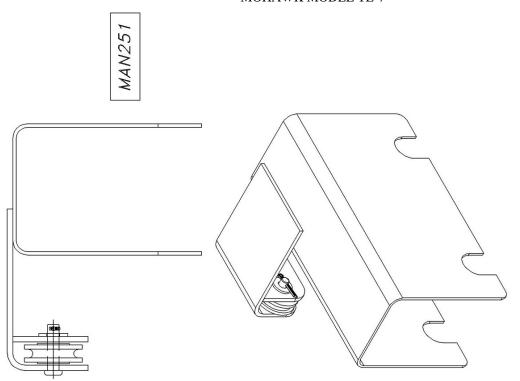




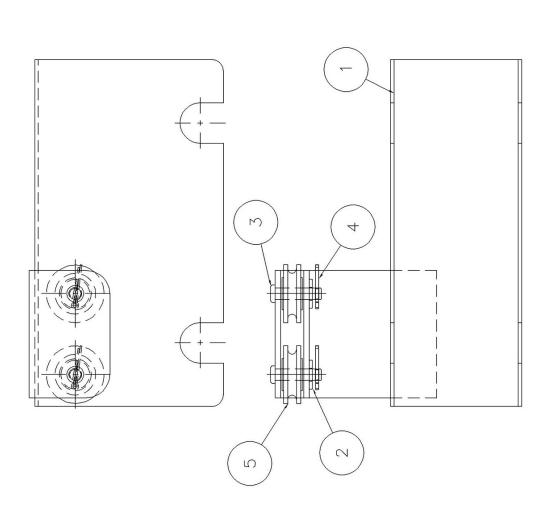
					### ##################################
	BAG #2/SHINS	ITEM 17	MAN279	O.I.M MANUAL, TL—7 WARRANTY CARD, 4" x 5 1/2 ALI STANDARD SAFETY REQUIREMENTS SAFETY MANUAL, ALI, LIFT IT RIGHT SAFETY TIPS CARD BAG 42/28/IMS CARRAGE STOP, DRILLED WEI—IT, 3/4 X 5" CONNECTOR, 4 PROVIC, NEMA \$114-20R	CARRIGGE PIN, 1 3/8 DIA x 8 13/16 4 NUT, LOCK, 1 3/8-12 NF PAINT, SPRAY, RED PAINT, SPRAY, RELOW THANALA ASSEMBLY, 11—7 MANUAL ASSEMBLY, 11—7 THANKOLA ASSEMBLY TC—7 PARTS BOX & CONTENTS OTHERS TO A PARTS BOX & CONTENTS
	BAG #1/SMALL PARTS	ITEM 12		23 601-800-269 0,1,M MANUAL, TL-7 22 601-800-115 WARRANIY CARD, 4" x 5 1/2 20 601-800-003 SAFETY MANUAL, ALI, LIFT IT 6 19 601-800-003 SAFETY MANUAL, ALI, LIFT IT 6 11 601-800-005 SAFETY MANUAL, ALI, LIFT IT 6 12 601-800-005 SAFETY MANUAL, ALI, LIFT IT 6 13 601-800-005 TUBING ASSEMBLY, 13 3/4" 15 600-610-059 TUBING ASSEMBLY, 13 3/4" 15 600-610-052 WEI-IT, 3/4 X 5" 11 600-610-002 WEI-IT, 3/4 X 5" 12 601-170-008 COMMERCIOR, PRONG, NEMA 12 000-010-073	009-010-114 600-680-008 601-630-001 007-012-010 009-010-009 601-600-004 PART MANBER
				BREAKDOWN OF ITEM 3	
	O O ITEM 22	_	ITEM 16		74
	ALI STANDARD SAFETY REQUIREMENTS	ITEM 20	•	TEM 15	ITEM 14
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SAFETY TIPS CARD	ITEM 18	[[TEM 8	ITEM 7
	ALI LIFT IT RIGHT MANUAL	ITEM 19		0	
	OI,M MANUAL	ITEM 23		4 ITEM 5	ITEM 2
			[TEM 4	

MOHAWK MODEL TL-7

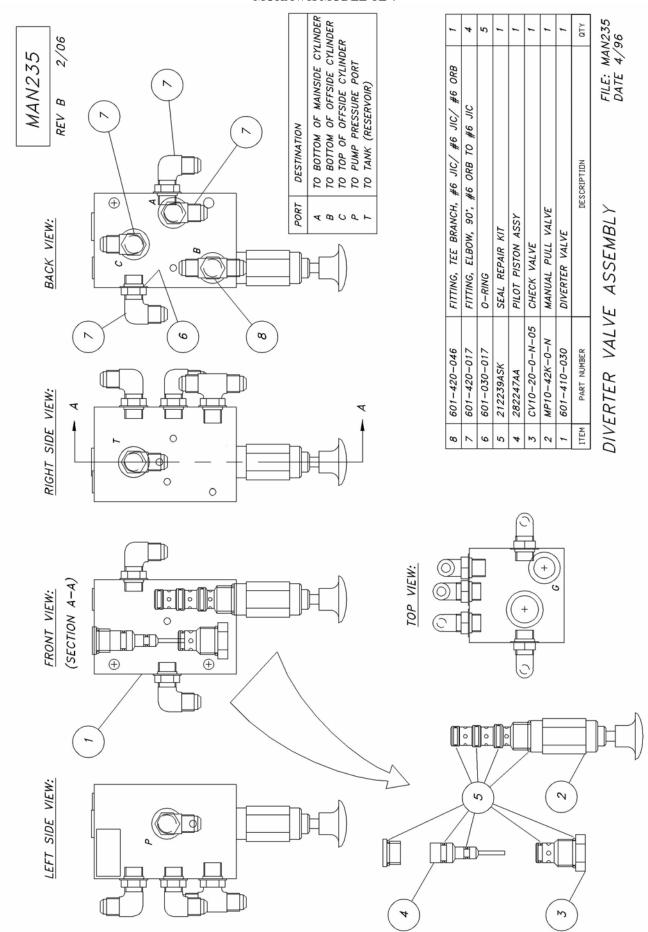
				REV.	L	DESCRIPTION	NO	DATE	BY	APP'D.
				\triangleleft					_	
NOTES:										
PLACE ITEMS 2	2 & 3 INTO ITEM 1, AND STAPLE CARTON SHUT.	N SHUT.								
				8	ZZ645-M	STOP ANGLE WELDMENT	WELDMENT			4
				2	500-006-009	+	QUICK RELEASE SHOULDER STYLE F	PIN		9
				1 6	601-600-004	BOX, CORRUGATED,	ATED, #31			1
C-size				ITEM	PART NUMBER		DESCRIPTION			QTY
NOTICE OF CONFIDENTIAL INFORMATION	NOTES: 1. REMOVE ALL SHARP CORNERS & EDGES.	ANGULERANCES:			S	SCALE DRAWN	MOHAWK RESOURCES LTD.	RESOURC	ESL	<u>e</u>
INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWIK RESOURCES LTD., WHERE DRAWING IS FURNISHED TO OTHERS	2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 126 RMS.	DECIMAL:			5	CHECKED APPROVED	ED TITLE BOX #2			
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.	SPECIFICATIONS TO B-70XF ELECTRODES OR B-70XF CAME AND B-70XF CAME AND CAME	FILE NAME	007-012-003			DATE	T	DRAWING NUMBER	NUMBER	\leq
	E-7011 CODE 5.3 FLOX CORE WIRE UNLI.	007-012-005	NEXT ASSEMBLY	SEMBLY	8		LB.	007-01	2-002	1



2	5 600-920-019	Sheave, 1.25 OD × .25 ID	7
4	4 600-890-003	Cotter Pin, 1/16 × 3/4	2
2	3 600-880-006	Clevis Pin, 1/4 Dia x 1" Long	7
2	2 600-710-004	Washer, Flat, 1/4	7
-	009-010-061	Chain Cover Weldment	-
ITEM	NAME	DESCRIPTION	QTY
		Darts List	



SYSTEM IA CHAIN COVER ASSEMBLY



MOHAWK

PRE-EXISTING SLAB REQUIREMENTS

NEW SLAB RECOMMEDATIONS



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

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.
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	8"	4000 psi with 28 day aging	#6 rebar	10 in.
TP-20	8"	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-W	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-W	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-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 wire mesh is recommended.

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 ¾ 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 ½ 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, contact Mohawk Resources Ltd. for seismic slab designs.

File: Pre-Existing Floor-Requirements.doc

Rev Date: 6/1/2006

^{**} 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".

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 ¾ 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 ½ 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: 6/7/06

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)	l 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
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	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	72" Min	186" Min	18 - #4 - Main Bars 24 - #4 - Temperature Bars 18 - #4 - Main 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 18 - #4 - Main Bars	4 in - Long Bars 8 in - Short Bars 4 in - Long Bars	1 in	10 in
TP-30	72" Min	198" Min	24 - #4 - Temperature Bars 4 - #4 Bars	8 in - Short Bars	1 in	10 in
TR-19 *	24" Min	24" Min	4 - #4 Bals 8 Bars Total 4 - #4 Bars	6 in - Each Way	3/4 in	5 in
FL-25 *	24" Min	24" Min	4 - #4 Bals 8 Bars Total 4 - #4 Bars	6 in - Each Way	3/4 in	5 in
TR-25 *	24" Min	24" Min	8 Bars Total 12 - #4 Bars	6 in - Each Way	3/4 in	5 in
TR-33 *	72" Min	72" Min	12 - #4 Bais 24 Bars Total 12 - #4 Bars	6 in - Each Way	3/4 in	5 in
TR-35 *	72" Min	72" Min	12 - #4 Bars 24 Bars Total 12 - #4 Bars	6 in - Each Way	3/4 in	5 in
TR-50 *	72" Min	72" Min	12 - #4 Bars 24 Bars Total 12 - #4 Bars	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

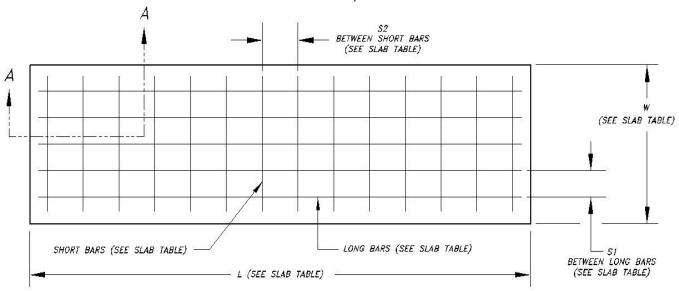
^{*} Four Separate Slabs Formed at each Post.

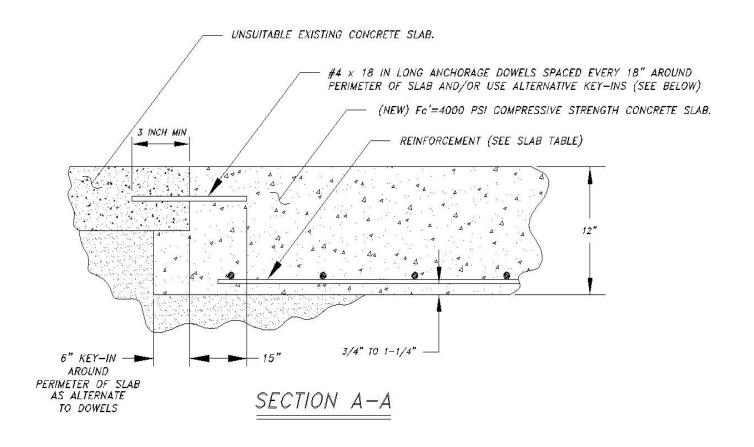
- Note 1: An additional layer of 6 x 6 10/10 WWF at mid height of new slab would be advisable in any extremely hot or cold climate to control cracking due to temperature fluctuations and shrinkage.

 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, course 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: MANO66 DATE: 2/98 REV DATE: 7/2003

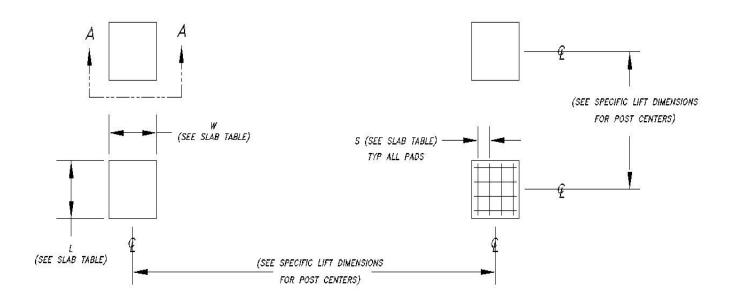


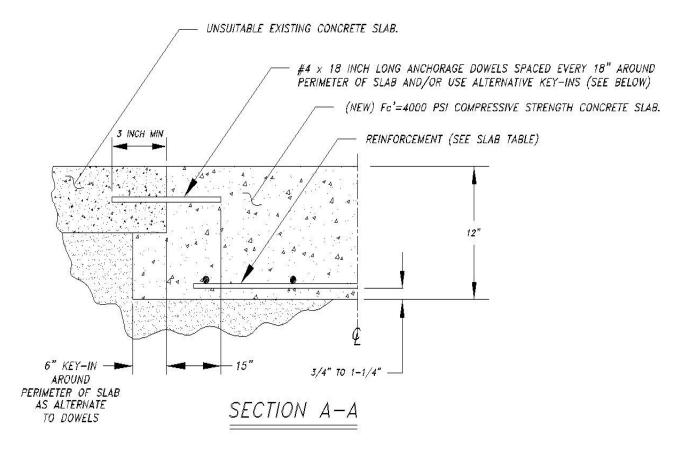


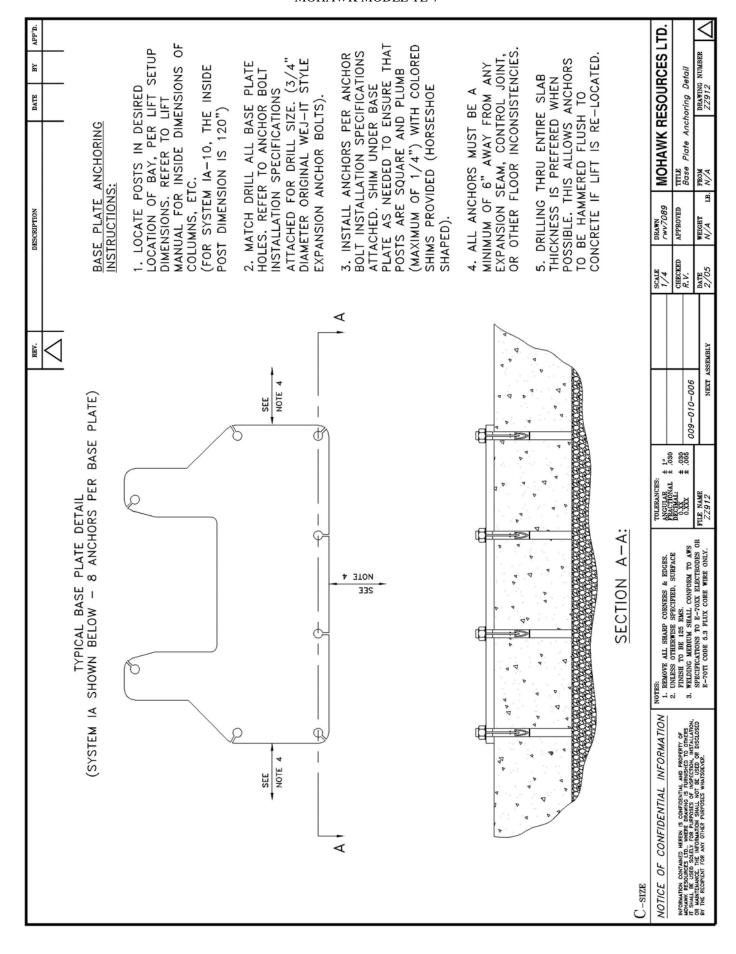
MOHAWK MODEL TL-7

NEW RECOMMENDED SLAB DESIGN FOR 4—POST LIFTS

FILE: MAN089 DATE: 10/00 REV DATE: 7/2003









The Original wej-it Wedge Anchors

KEY FEATURES/BENEFITS

- Time-Tested, Pr ven Reliability. An industry standard for over 45 years.
- USA ENGINEERED &
 MANUFACTURED
- 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	QQZ-325C, Type II, Class 3
Specifications	(Clear Chromate added)
V	FFS-325, Group II, Type 4, Class 1

MAXIMUM TENSILE AND SHEAR CAPACITY FOR STATIC LOADS

		Limestoni Aggregat			Unrein	FORCED S	TONE AGG	REGATE ON STEEL	ONCRETE			JNREINFOR	
Anchor	Embed-	920000000000000000000000000000000000000	0 psi	Embed-	300	0 psi		00 psi	7000 psi		Embed-	1	1
& Hole Size	ment (in)	Tension (lbs)	Shear (lbs)	ment (in)	Tension (lbs)	Shear (lbs)	Tension (lbs)		Tension (lbs)	Shear (lbs)	ment (in)	Tension (lbs)	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, O; 1981.

EDGE DISTANCE AND SPACING REQUIREMENTS

Embedment (E) in	Spacing	Edge Distance
Anchor Diameters (d)		
E < 6d (shallow)	3.50E	1.75E
$6d \le E \le 8d \text{ (standard)}$	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.

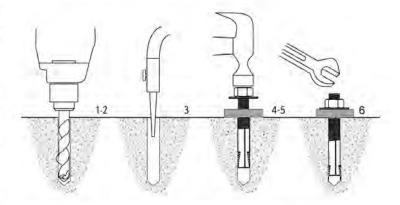


ORDER INFORMATION

Catalog Number	Anchor Diameter & Length (in)	Minimum Embed- ment (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	$3/8 \times 5$	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	4	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

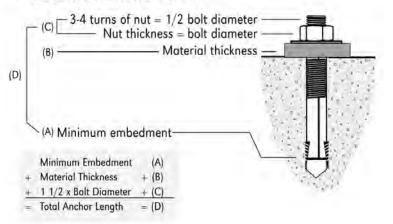
INSTALLATION INSTRUCTIONS - MOHAWK LIFTS

- Drill the hole perpendicular to the work surface.* To assure full holding power, do not ream the hole or allow the drill to wobble.
- 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.
- Clean the hole using compressed air and a nylon brush. A clean hole is necessary for proper performance.
- 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.
- Tap anchor into hole with a 2 ½ lb. hammer until the washer rests solidly against fixture.
- Tighten the nut to 175 Ft. Lbs. maximum torque and 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 anchor is not recommended)



* 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







Position vehicle with center of gravity midway between adapters.





Lift to be used by trained operator only.

Authorized personnel only in lift area.



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©



Remain clear of lift when raising or lowering vehicle.

A WARNING



Avoid excessive rocking of vehicle while on lift.

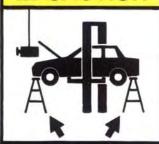
A CAUTION

0



Use vehicle manufacturer's lift points.

A CAUTION



Always use safety stands when removing or installing heavy components. ©

A WARNING



Do not override self-closing lift controls.

A WARNING

0



Keep feet clear of lift while lowering.

A CAUTION



Use height extenders when necessary to ensure good contact.

A CAUTION



Auxiliary adapters may reduce load capacity.

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

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MOHAWK.

Because Quality Lasts Forever.



Model USL-6000

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



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 LMF-12

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.



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.

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SEND US YOUR PHOTOS!

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









VISIT <u>WWW.MOHAWKLIFTS.COM/PR/</u> 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!

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