

# MOHAWK



**MADE IN THE U.S.A.**

## MODEL TR - 75

**75,000 LB. CAPACITY  
FOUR POST TRUCK LIFT MANUAL**

### WARRANTY CARD

THANK YOU  
FOR SENDING IN  
YOUR  
REGISTRATION  
CARD.  
MOHAWK SERVICE  
DEPARTMENT



INSTALLATION



OPERATION



MAINTENANCE



PARTS MANUAL



### MOHAWK RESOURCES LTD.

65 VROOMAN AVE.  
P.O. BOX 110  
AMSTERDAM, NY 12010  
TOLL FREE : 1-800-833-2006  
FAX : 1-518-842-1289  
LOCAL : 1-518-842-1431

**READ MANUAL  
THOROUGHLY  
BEFORE INSTALLING,  
OPERATING OR  
MAINTAINING LIFT !!**

## IMPORTANT SAFETY INSTRUCTIONS

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

1. Read all instructions. Before assembling unit, become familiar with part names and have a good understanding of how this unit is to be assembled and of how individual parts operate.
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).



**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**

## 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](http://www.MOHAWKLIFTS.com)

E-Mail: [Service@MOHAWKLIFTS.com](mailto:Service@MOHAWKLIFTS.com)

**MOHAWK WARRANTIES**

EFFECTIVE DATE: 4/14/2003

**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. 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.

**5-YEAR WARRANTY:**

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: A-7, SYSTEM IA, SYSTEM IA-10, TOMAHAWK-9000, LMF-12, TP-15, TP-18, TP-20, TP-26, TP-30 AND STANDARD OPTIONS.

**3-YEAR WARRANTY:**

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: TSL-7, PL-6000, TR-19, TR-25, FL-25, TR-33, TR-35, TR-40, TR-50, TR-60, TR-75, TR-110, MP-SERIES AND RP-SERIES MOBILE COLUMN LIFTS, SL-SERIES SCISSOR LIFTS, FP-SERIES LIGHT DUTY FOUR POST LIFTS, TL-SERIES LIFTS AND STANDARD OPTIONS.

**2-YEAR WARRANTY:**

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: PARALLELOGRAM SERIES AND USL-6000 AND STANDARD OPTIONS.

**1-YEAR WARRANTY:**

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: HR-6, TD-1000, CT-1000 AND STANDARD OPTIONS.

**STRUCTURAL COMPONENTS:**

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

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 I, LMF-12, TP-15, TP-18, TP-20, TP-26, TP-30, MP-SERIES AND TL-SERIES LIFTS.

**POWER UNIT:**

ALL POWER UNIT COMPONENTS (MOTOR, PUMP AND RESERVOIR) ARE GUARANTEED FOR THE ABOVE STATED TIME FRAME, SPECIFIC TO MODEL, 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 ELECTRICAL COMPONENTS (EXCLUDING MOTOR) 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.

**PNEUMATIC (AIR) COMPONENTS:**

ALL PNEUMATIC (AIR) COMPONENTS (I.E. AIR CYLINDERS AND POPPET AIR VALVES) 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 "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.

THIS WARRANTY SUPERSEDES ALL OTHER WARRANTY POLICIES PREVIOUSLY STATED AND IN ALL OTHER MOHAWK PRODUCT SPECIFIC LITERATURE.

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**ALSO INCLUDED WITH MANUAL:    SAFETY TIPS CARD**  
**ALI LIFTING IT RIGHT MANUAL**

## GENERAL INFORMATION

### BEFORE INSTALLING A LIFT

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

### WHAT ARE THE LIFT SPECIFICATIONS ?

THE SPECIFICATIONS IN THIS MANUAL ARE FOR A STANDARD TR - 75. ANY SPECIAL FEATURES WILL BE INDICATED ON THE LIFT VERIFICATION SHEET. USE THE LIFT VERIFICATION SHEET AND THE TR 35 / 50 / 75 DIMENSIONAL CHART TO VERIFY THE UNITS SPECIFICATIONS AND SET-UP DIMENSIONS.

### OVERHEAD OBSTRUCTIONS:

THE AREA IN WHICH THE LIFT WILL BE LOCATED SHALL BE FREE OF OBSTRUCTIONS. HEATERS, BUILDING SUPPORTS, ELECTRICAL CONDUIT. ALL OF THESE ITEMS ARE TO BE (20 FT) TWENTY FEET ABOVE THE BAY FLOOR

### CONCRETE FLOOR:

VISUALLY LOOK OVER THE BAY FLOOR. THE LIFT CAN NOT BE INSTALLED ON EXPANSION SEAMS, OR CONCRETE THAT IS CRACKED. THE LIFT CANNOT BE EXPECTED TO BE STRUCTURALLY SOUND ON DEFECTIVE CONCRETE.

### TEST DRILL THE FLOOR:

TEST DRILL THE FLOOR TO VERIFY CONCRETE THICKNESS. TEST DRILL EACH BAY WHEN MORE THAN ONE LIFT IS BEING INSTALLED.

### FLOOR REQUIREMENTS:

THIS INFORMATION IS IN THE GENERAL FLOOR REQUIREMENTS.

### POWER SUPPLY:

REFER TO THE LIFT VERIFICATION SHEET FOR THE POWER SUPPLY SPECIFICATIONS.

### BAY SIZE:

REFER TO THE LIFT VERIFICATION SHEET AND THE DIMENSIONAL CHART.

### SPECIFICATIONS:

REFERENCE ALL SPECIFICATIONS PRIOR TO INSTALLING THE LIFT.

## IMPORTANT

- ALL INFORMATION, ILLUSTRATIONS, AND SPECIFICATIONS IN THIS MANUAL ARE SPECIFIC TO THE MOHAWK MODEL TR - 75. WE RESERVE THE RIGHT TO MAKE CHANGES AT ANY TIME WITHOUT NOTICES.
- ALWAYS REFER TO THE LIFT VERIFICATION SHEET AND THE TR 35/50/75 DIMENSIONAL CHART. SPECIFIC INFORMATION PERTAINING TO THIS LIFT IS FOUND ON THESE PAGES.

**GENERAL INFORMATION CONTINUED****RECOMMENDED TOOL LIST**

<b>SIZE / QTY</b>	<b>TOOL</b>	<b>USED FOR</b>
3/4 IN	WRENCH / SOCKET	HYDRAULIC HOSES
11 / 16 IN	WRENCH / SOCKET	HYDRAULIC FITTINGS
5 / 8 IN	WRENCH / SOCKET	HYDRAULIC FITTINGS
1-1/16 IN	WRENCH / SOCKET	RAMP / CROSSRAIL
1-1/8 IN	WRENCH / SOCKET	RAMP / CROSSRAIL / WEJ-IT ANCHORS
1-1/4 IN	WRENCH / SOCKET	CHAIN CONNECTORS
1 SET	ALLEN WRENCHES	AS REQUIRED
1	PLIERS / NEEDLE NOSE	CHAIN MASTER LINKS
1	RATCHET	AS REQUIRED
50 FT	MEASURING TAPE	SITE LAYOUT
1	CHALK LINE	SITE LAYOUT ( BLUE / YELLOW CHALK )
4 FT	BUBBLE LEVEL	VERIFY LEVEL ASSEMBLY
25 FT	FISH TAPE	PULLING CHAINS
1	HAMMER	AS REQUIRED
8 FT	STEP LADDER	ASSEMBLE ELEVATED ITEMS
4	4 X 4 X 24 IN DUNNAGE	SUPPORT TRACKS OFF FLOOR
1	PRY BAR	ADJUST HEAVY ITEMS
50 / 100 FT	LEAD CORD	OPERATE ELECTRICAL TOOLS
3/4 IN	MASONRY DRILL BIT	DRILL ANCHOR HOLES
1	IMPACT DRILL	DRILL ANCHOR HOLES
1	FORK TRUCK (6000 LBS. MIN CAP.)	ERECT / MOVE HEAVY COMPONENTS

**WARNING****BEFORE DRILLING THE MOUNTING HOLES**

- REFERENCE ANCHOR INSTALLATION INFO IN FIGURE SECTION FOR DRILLING AND WEJ-IT WARNINGS AND INSTALLATION INSTRUCTIONS.
- CHECK THE DIMENSIONS OF THE POST AT THE BOTTOM FROM THE FACE OF POST ONE TO THE FACE OF POST NUMBER TWO.
- CHECK THE DIMENSIONS OF THE POST AT THE BOTTOM FROM THE FACE OF POST THREE TO THE FACE OF POST NUMBER FOUR
- USE A SHARP DRILL BIT AS NOT TO DRILL 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 ANCHOR SO THAT THE WASHER RESTS AGAINST THE POST FOOTING. WHEN THE LEVEL HAS BEEN VERIFIED, TIGHTEN THE NUT AS STATED FOR ANCHOR SPECIFICATIONS.
- 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.
- NEVER USE AN IMPACT TOOL TO TIGHTEN THE WEJ-IT ANCHORS. USE A TORQUE WRENCH ONLY.
- AFTER DRILLING EACH HOLE, VACUUM CLEAN AND INSERT THE WEJ-IT ANCHOR.
- ONLY AFTER VERIFYING A SQUARE LEVEL UNIT, CAN THE UNIT BE SECURELY MOUNTED TO THE SHOP FLOOR.
- USING THE HOLES AT THE BASE OF EACH POST AS A GUIDE, DRILL THE FOUR MOUNTING HOLES FOR THE ANCHORS.

**GENERAL INFORMATION CONTINUED****FLOOR REQUIREMENTS**

MODEL	MINIMUM THICKNESS	MINIMUM COMPRESSIVE STRENGTH	MINIMUM AGING
TR - 75	5 INCHES	4000 P.S.I.	28 DAYS

**NOTE**

CONSULT WITH A BUILDING ARCHITECT FOR SPECIFIC INFORMATION ON THE INSTALLATION SIGHT

DO NOT INSTALL ANY MOHAWK LIFT ON ANY OTHER SURFACE OTHER THAN CONCRETE CONFORMING TO THE MINIMUM TENSILE 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 ON ANY

GROUND WITH A BASEMENT BENEATH WITHOUT WRITTEN AUTHORIZATION FROM THE BUILDING ARCHITECT.

NEVER, 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**

MODEL	FOOTING THICKNESS	FOUR PADS WIDTH X LENGTH	VOLUME
TR - 75	12 INCHES	6 FT X 6 FT	5.4 CUBIC YARDS

**NOTE**

FOUR FOOTINGS 6 FT X 6 FT X 12 IN DEEP MAY BE USED. FIGURE 1

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

CERTIFIED STRENGTH DOCUMENTATION SHOULD BE OBTAINED FROM THE FIRM WHO SUPPLIES THE CONCRETE MIXTURE AT THE TIME OF THE POUR.

NEVER, NEVER HAND MIX YOUR OWN CONCRETE.

FOR TYPICAL SLAB DRAWING AND DETAILED REQUIREMENTS CONTACT:  
MOHAWK RESOURCES LTD.



**GENERAL INFORMATION CONTINUED****TR - 75 STANDARD LIFT SPECIFICATIONS**

GROSS LIFTING CAPACITY	75,000 LBS.	
LIFTING SPEED ( UP CYCLE ) APPROX.	2 MINUTES - 20 SECONDS	
LIFTING HEIGHT ( STROKE )	5 FEET	60 INCHES
OVERALL WIDTH ( W/O CONSOLE )	14 FT. 5 IN.	173 IN.
OVERALL LENGTH (FOR 25' STD TRACKS)	41 FT. 4 - 1/8 IN.	495 - 1/8 IN.
TRACK WIDTH	2 FT.	24 IN.
CLEARANCE BETWEEN POST ( WIDTH )	11 FT. 10 IN	142 IN.
MAXIMUM WHEEL BASE (FOR 25' TRKS)	27 FT.	324 IN.
SHIPPING WEIGHT	17,000 LBS.	

**POWER UNIT SPECIFICATIONS**

MONARCH MODEL	T-12-30-0-20-01-1-000000-00-0-0
MOTOR VOLTAGE	208-230 VAC
MOTOR HORSE POWER	10 HP
MOTOR FULL LOAD AMPS	40 AMP
MOTOR PHASE	THREE PHASE
MOTOR CYCLE / HERTZ	60 HZ
MOTOR SPEED ( RPM )	1800 RPM
PUMP FLOW ( GPM)	8.8 GPM
RELIEF VALVE SETTING ( PSIG )	2750 PSI
RESERVOIR CAPACITY ( GALLONS )	30 U.S. GALLON
POWER UNIT	HORIZONTAL
HYDRAULIC FLUID MEDIUM	DEXRON III
FILTER	10 MICRON – SPIN ON
CIRCUIT BREAKER	PER N.E.C. / LOCAL CODE

**SUGGESTED MINIMUM BAY SIZE**

WIDTH	DEPTH	HEIGHT
18 FEET	45 FEET	20 FEET

**NOTE**

THE PLACEMENT OF THE UNIT IS DETERMINED BY THE TYPE / LENGTH, WIDTH, HEIGHT OF VEHICLE BEING SERVICED. ALLOW AMPLE ROOM ( THREE TO FOUR FEET ) FOR WALKWAYS ETC.

**ANCHOR / WEJ-IT**

LENGTH	DIAMETER	DRILL SIZE MINIMUM	DRILL SIZE MAXIMUM	TORQUE FOOT POUNDS
5 INCHES	3/4 INCH	0.775	0.787	See Diagram

**WARNING**

NEVER USE AN IMPACT TOOL TO TIGHTEN THE WEJ-IT ANCHOR.

## APPENDAGES

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

MOHAWK RESOURCES LTD.  
PRODUCT IMPROVEMENTS  
P. O.. BOX 110  
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.

THIS EQUIPMENT MUST BE INSTALLED ON A LEVEL CONCRETE FLOOR WITH A MINIMUM THICKNESS OF FIVE INCHES. THE CONCRETE MUST BE AGED AT LEAST TWENTY EIGHT DAYS PRIOR TO INSTALLATION AND HAVE A MINIMUM TENSILE STRENGTH OF FOUR THOUSAND P.S.I..

### WARNING

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

### IMPORTANT

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 GENERAL FLOOR REQUIREMENTS.

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.

## APPENDAGES

### INSTALL THIS EQUIPMENT ON CONCRETE ONLY

IF, FOR ANY REASON, A NEW CONCRETE SLAB SECTION IS REQUIRED, THE MINIMUM THICKNESS, 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 IN THE, GENERAL FLOOR REQUIREMENTS. AND / OR THE FLOOR MODIFICATION DATA SHEET.

### IMPORTANT NOTE

A LEVEL FLOOR IS SUGGESTED FOR A PROPER INSTALLATION SITE AND WILL ENSURE LEVEL LIFTING. 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.

### 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.

### WARNING:

ALL ACCESSORIES (I.E. LIFTING PADS, HEIGHT ADAPTORS, JACKING BEAMS, ETC.) 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.

### WARNING:

LOADING OF THE JACKING BEAMS OR COMBINATION OF JACKING BEAMS ABOVE THE RATED CAPACITY OF THE LIFT ITSELF COULD RESULT IN PERSONAL INJURY TO THE OPERATOR AND/OR DAMAGE TO THE LIFT AND/OR VEHICLE. THE LOAD RATING OF ANY JACKING BEAM OR COMBINATION OF JACKING BEAMS ON THIS UNIT MUST NOT EXCEED THE RATED CAPACITY OF THE LIFT.

**TR - 75 STANDARD PACKING LIST**

<b>PACKED</b>	<b>QTY</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
	2 EA	075-010-011	LEG / POST ASSEMBLY ( POST # 1 & 4 )
	2 EA	075-010-012	LEG / POST ASSEMBLY ( POST # 3 & 2 )
	2	050-010-008	CROSS RAIL
	1	075-010-005	MAIN SIDE TRACK ASSEMBLY
	1	050-011-013	OFF SIDE TRACK ASSEMBLY
	2	050-010-037	DRIVE ON RAMP ASSEMBLY
	1	075-010-004	CONTROL CONSOLE ASSEMBLY
	1	FILE MAN1312	PARTS BOX # 1
	1	FILE MAN1313	PARTS BOX # 2
	<b>1</b>	<b>FILE MAN1312</b>	<b>PARTS BOX # 1</b>
	1	075-010-016	MANUAL / INSTALLATION ( TR - 50 )
	4	600-930-001	WHEEL CHOCKS
	2	050-000-179	TRACK STOPS ( BOTTOM )
	2	050-000-157	TRACK STOPS ( TOP )
	6	075-010-008	HYDRAULIC HOSE ASSEMBLIES
	1	601-800-070	WARRANTY REGISTRATION CARD PACKAGE
	<b>1</b>	<b>FILE MAN1313</b>	<b>PARTS BOX # 2</b>
	6	050-000-032	TUBING ASSEMBLY
	6	035-001-006	TUBING ASSEMBLY CLUSTER ( W/T-FITTING )
	1	050-010-016	SMALL PARTS BAG
	6	601-630-002	SPRAY PAINT ( YELLOW )
	6	601-630-001	SPRAY PAINT ( RED )
	16	600-670-002	WEJ-IT ANCHOR ( 3/4 X 5 )
	32	600-640-024	BOLT, 3/4 X 2-1/2 IN
	16	6000640-028	BOLT, 3/4 X 3-1/2 IN
	48	600-690-003	NUT 3/4 NF NLN
	4	050-000-160	CARRIAGE COVER PLATE
	2	050-010-115	CROSSRAIL LINE COVER ( LEFT )
	2	050-010-116	CROSSRAIL LINE COVER ( RIGHT )
	<b>1</b>	<b>050-010-016</b>	<b>SMALL PARTS BAG</b>
	10	600-740-003	SHIM, 1/4 IN BLACK
	10	600-740-002	SHIM, 1/8 IN RED
	10	600-740-001	SHIM, 1/16 IN BLUE
	1	601-610-002	THREAD SEALING COMPOUND
	2	600-640-012	BOLT 5/16 X 3/4 IN
	4	600-710-012	WASHER, FLAT 7/8 IN
	4	600-690-010	NUT 7/8 NF NLN
	4	600-870-005	SNAP RING
	4	600-870-004	SNAP RING
	12	600-640-069	BOLT, 3/8-16 NC x 1 3/4 LG
	24	600-710-009	WASHER, FLAT, 3/8
	12	600-680-012	NUT, PLAIN, 3/8-16 NC
	12	600-720-011	WASHER, LOCK, 3/8
	3	601-140-022	HOSE SUPPORT CLAMP
<b>PACKED BY:</b>			

## 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.

### IMPORTANT

- INSTALL THE UNIT AS INDICATED ON THE LIFT VERIFICATION SHEET. YOU CANNOT REVERSE THE TRACK ONLY. THE UNIT CAN ONLY BE ROTATED IN ITS ENTIRETY.
- THE UNIT WILL NOT BE SECURELY MOUNTED TO THE FLOOR UNTIL THE UNIT HAS BEEN CYCLED AND OPERATES SMOOTHLY. USE EXTREME CAUTION AS NOT TO DISRUPT THE STABILITY OF THE UP-RIGHT POST. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

### TO BEGIN

USE THE PACKING LIST IN THIS MANUAL AND VERIFY ALL SUPPLIED PARTS. IF MISSING PARTS ARE NOTED, THEY CAN BE OBTAINED BY CALLING 1-800-833-2006 OR BY CONTACTING YOUR LOCAL MOHAWK DISTRIBUTOR.

USING A CHALK LINE, LAYOUT THE FLOOR DIMENSIONS WHERE THE UNIT IS TO BE LOCATED.

### NOTE

THE CARRIAGES AND CROSS RAILS ARE MATCHED DRILLED ONE, TWO, THREE, AND FOUR. THESE ARE REFERENCE MARKS ON THE TOP OF THE CROSS RAIL AND THE TOP PLATE ON THE ADJOINING CARRIAGE.

ALIGN POST ONE AND TWO INTO PLACE ON THE CHALK LINE LAYOUT.

### NOTE

- POST TWO IS TO BE SET ONE FOOT OUT AWAY FROM POST ONE. UNTIL THE CROSS RAIL CHAINS HAVE BEEN ROUTED THROUGH THE CARRIAGES.
- VERIFY THAT THE THREE INTERNAL HYDRAULIC LINES IN BOTH CROSS RAILS ARE TIGHT BEFORE ASSEMBLY.

### WARNING

- INSURE ALL HYDRAULIC LINE CONNECTIONS ARE LOCATED TO THE INSIDE OF THE UNIT

SET THE CROSSRAIL MARKED ONE AND TWO INTO PLACE BETWEEN POST ONE AND TWO IN THE CORRESPONDING ORIENTATION.

USING THE FISH TAPE ROUTE THE TWO EQUALIZING CHAINS THROUGH THE CROSS RAIL AND CARRIAGES. LAY THE EXCESS CHAIN ONTO THE CROSS RAIL.

### WARNING

- DO NOT CROSS OR TWIST THE EQUALIZING CHAINS WHEN FISHING THEM THROUGH THE CROSS RAIL. ALWAYS VERIFY THIS USING A DROP LIGHT OR FLASH LIGHT. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

## INSTALLATION INSTRUCTIONS

ALIGN THE CROSS RAIL MOUNTING HOLES WITH THE MOUNTING HOLES ON THE CARRIAGE ON POST NUMBER ONE. WHEN THE CROSS RAIL IS IN PLACE, INSERT AND HAND TIGHTEN THE EIGHT 3/4 - 16 NF X 2 - 1/2 IN BOLT AND 3/4 - 16 NF NYLON LOCK NUT.

ALIGN THE CROSS RAIL MOUNTING HOLES WITH THE MOUNTING HOLES ON THE CARRIAGE ON POST NUMBER TWO. WHEN THE CROSS RAIL IS IN PLACE, INSERT AND HAND TIGHTEN THE EIGHT 3/4 - 16 NF X 2 - 1/2 IN BOLT AND 3/4 - 16 NF NYLON LOCK NUT.

FULLY TIGHTEN THE SIXTEEN CROSS RAIL MOUNTING BOLTS TO 420 FOOT POUNDS.

CONNECT THE TWO EQUALIZING CHAINS TO THE TOP OF POST ONE AND TWO.

TIGHTEN THE NYLON LOCK NUT SO THAT THE THREADS OF THE CHAIN CONNECTOR PROTRUDE PAST THE NYLON BY AT LEAST THREE THREADS.

PLACE THE MAIN AND OFF SIDE TRACK INTO POSITION ON THE CROSS RAIL. ELEVATE THE TRACKS OFF OF THE CROSS RAIL USING THE 4 X 4 X 12 IN DUNNAGE.

### NOTE

- THE MAIN SIDE TRACK IS TO BE LOCATED ON THE SIDE WITH THE CONTROL CONSOLE. REFERENCE LIFT VERIFICATION SHEET

ALIGN POST THREE AND FOUR INTO PLACE ON THE CHALK LINE LAYOUT.

POST THREE IS TO BE SET ONE FOOT OUT AWAY FROM POST FOUR UNTIL THE CROSS RAIL CHAINS HAVE BEEN ROUTED THROUGH THE CARRIAGES.

SET THE CROSS RAIL MARKED THREE AND FOUR INTO PLACE BETWEEN POST THREE AND FOUR IN THE CORRESPONDING ORIENTATION.

USING THE FISH TAPE ROUTE THE TWO EQUALIZING CHAINS THROUGH THE CROSS RAIL. AND CARRIAGES. LAY THE EXCESS CHAIN ONTO THE CROSS RAIL.

### WARNING

- DO NOT CROSS OR TWIST THE EQUALIZING CHAINS WHEN FISHING THEM THROUGH THE CROSS RAIL. ALWAYS VERIFY THIS USING A DROP OR FLASH LIGHT. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

ALIGN THE CROSS RAIL MOUNTING HOLES WITH THE MOUNTING HOLES ON THE CARRIAGE ON POST NUMBER THREE. WHEN THE CROSS RAIL IS IN PLACE, INSERT AND HAND TIGHTEN THE EIGHT 3/4 - 16 NF X 2 - 1/2 IN BOLT AND 3/4 - 16 NF NYLON LOCK NUT.

ALIGN THE CROSS RAIL MOUNTING HOLES WITH THE MOUNTING HOLES ON THE CARRIAGE ON POST NUMBER FOUR. WHEN THE CROSS RAIL IS IN PLACE, INSERT AND HAND TIGHTEN THE EIGHT 3/4 - 16 NF X 2 - 1/2 IN BOLT AND 3/4 - 16 NF NYLON LOCK NUT.

FULLY TIGHTEN THE SIXTEEN CROSS RAIL MOUNTING BOLTS TO 420 FOOT POUNDS.

CONNECT THE TWO EQUALIZING CHAINS TO THE TOP OF POST THREE AND FOUR.

TIGHTEN THE NYLON LOCK NUT SO THAT THE THREADS OF THE CHAIN CONNECTOR PROTRUDE PAST THE NYLON BY AT LEAST THREE THREADS.

## INSTALLATION INSTRUCTIONS

ASSEMBLE THE TWELVE HYDRAULIC LINE ASSEMBLIES MARKED ONE, TWO, THREE, AND FOUR ONTO THE CARRIAGE AND TRACKS. DO NOT CROSS THREAD OR OVER TIGHTEN THE CONNECTORS.

ASSEMBLE THE SIX 40.50 IN HYDRAULIC HOSES TO THE FORE AND AFT END OF THE UNIT. (CONNECTIONS ON THE MAIN SIDE TRACK .FROM THE CARRIAGE TO THE CROSS RAIL )

MOVE THE CONTROL CONSOLE INTO PLACE BESIDE THE MAIN SIDE TRACK. ( CENTERED, APPROXIMATELY FOUR FOOT FROM THE TRACK )

ASSEMBLE THE FOUR HYDRAULIC HOSE ASSEMBLIES FROM THE CONTROL CONSOLE TO THE MAIN SIDE TRACK.

ASSEMBLE THE HUBBLE PLUG FROM THE CONTROL CONSOLE TO THE SELF LEVELING DEVICE.

### IMPORTANT

- AT THIS TIME HAVE A QUALIFIED LICENSED ELECTRICIAN CONNECT THE POWER SUPPLY TO THE CONTROL CONSOLE.

### IMPORTANT

USING THE TEXT AND DIAGRAM, FAMILIARIZE YOURSELF WITH THE CONTROL CONSOLE FUNCTIONS.

### PRE-STARTUP

- INSURE ALL HYDRAULIC CONNECTIONS ARE PROPERLY TIGHTENED.
- PLACE THE AUTO / MANUAL SWITCH ON THE CONTROL PANEL CONSOLE TO THE MANUAL POSITION.
- PLACE THE HIGH / LOW SWITCH ON THE CONTROL PANEL CONSOLE TO THE LOW POSITION.
- VERIFY THE MOTOR ROTATION.

- ENSURE ALL DEBRIS AND PERSONAL HAVE BEEN REMOVED FROM THE LIFTING AREA..
- PLACE THE POWER UNIT STARTER SWITCH ON THE CONTROL PANEL TO THE ON POSITION. OBSERVE THE POWER INDICATOR LIGHT.

FOLLOWING THE PROCEDURES FOR RAISING AND LOWERING THE UNIT, RAISE THE UNIT APPROXIMATELY ONE FOOT. INSURE THAT THE TRACKS HAVE SEATED THEMSELVES INTO THE ALIGNMENT TABS ON THE CROSS RAIL ADJUST AS NEEDED.

CYCLE THE UNIT TWO TO THREE TIMES. OBSERVE EVEN AND SMOOTH OPERATION USE THE PROVIDED SHIMS TO LEVEL POST ONE, TWO, THREE, AND FOUR.

ASSEMBLE THE TWO TRACK STOPS TO THE FORE END OF THE MAIN AND OFF SIDE TRACK USING THE EIGHT 3/4 - 16 NF X 3 - 1/2 IN BOLTS AND 3/4 - 16 NF NYLON LOCK NUTS.

CHECK ALL HYDRAULIC FITTINGS FOR LEAKS. TIGHTEN AS REQUIRED.

SNAP INTO PLACE THE FOUR CARRIAGE ACCESS COVER PLATES ONTO THE CARRIAGES

ASSEMBLE THE FOUR HYDRAULIC LINE COVER PLATES ONTO THE CROSS RAIL USING THE TWELVE HEX HEAD 5/16 - 24 NF X 5/8 IN SELF TAPPING BOLTS.

FOLLOWING THE INSTRUCTIONS FOR RAISING AND LOWERING THE UNIT, AGAIN CYCLE THE UNIT. AFTER RAISING THE UNIT FULLY LOWER THE UNIT.

WITH THE UNIT FULLY LOWERED, ADJUST ALL FOUR EQUALIZING CHAINS TO REMOVE ANY REMAINING SLACK. ALL FOUR CHAINS ARE TO BE TAUT.

## **SAFETY TIPS**

PLEASE POST THE SAFETY TIPS ( COPY IN PARTS BOX ) IN A PLACE WHERE THE OPERATOR WILL BE CONSTANTLY REMINDED OF THEIR IMPORTANCE. ALWAYS REFER TO THE LIFTS SPECIFIC SAFETY, OPERATING AND MAINTENANCE INSTRUCTIONS.

- OPERATING VALVES, SWITCHES, AND LOCKING DEVICES ARE DESIGNED FOR MAXIMUM SAFETY. NEVER ATTEMPT TO BLOCK OR OVERRIDE THEM.
- NEVER OVERLOAD YOUR LIFT BEYOND STATED LIFTING CAPACITY.
- 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 VEHICLE WITH ANYONE INSIDE IT.
- BE SURE WORK AREA AROUND THE LIFT IS CLEAR AND FREE OF OBSTRUCTIONS.  
( DEBRIS, GREASE, OIL )
- NEVER ATTEMPT TO OPERATE A LIFT IF IT APPEARS TO BE MALFUNCTIONING OR IF BROKEN OR DAMAGED PARTS ARE EVIDENT.
- FULLY LOWER THE UNIT BEFORE LOADING OR UNLOADING A VEHICLE.
- LOAD LIFT CAREFULLY. AVOID QUICK STOPS AND STARTS.
- PERFORM THE PRE-OPERATION CHECK LIST, PER INSTRUCTIONS, BEFORE RAISING VEHICLE TO DESIRED HEIGHT.
- BEFORE REMOVING VEHICLE FROM THE LIFT AREA, REMOVE THE WHEEL CHOCKS TO ASSURE THAT VEHICLE OR LIFT WILL NOT BE DAMAGED.



## CONTROL PANEL FUNCTIONS DEFINITIONS

NUMBERS PREFIXED INDICATES REFERENCE NUMBER ON FIGURE

**1. FORE PRESSURE GAUGE:**

- INDICATES THE PRESSURE IN THE CYLINDERS AT THE FORE END OF THE UNIT.

**2. AFT PRESSURE GAUGE:**

- INDICATES THE PRESSURE IN THE CYLINDERS AT THE AFT END OF THE UNIT.

**3. POWER ON INDICATOR LIGHT:**

- INDICATES UNIT IS ON.

**4. FILTER INDICATOR LIGHT:**

- WHEN ILLUMINATED CONSTANTLY, THE FILTER NEEDS TO BE REPLACED.

**5. DOWN SPEED HIGH / LOW SWITCH:**

- SETS MODE ON DOWN SPEED, INCREASES OR DECREASES THE LOWERING SPEED OF THE UNIT.

**6. LEVEL CONTROL SWITCH:**

- SETS MODE OF MONITORING THE LEVEL OF THE UNIT, EITHER MANUALLY OR AUTOMATICALLY.

**7. POWER ON / POWER OFF SWITCH:**

- TURN UNIT ON OR OFF. HAS LOCKOUT CAPABILITY.

**8. LOCK RELEASE BUTTON:**

- ALLOWS FLUID TO ENERGIZE THE LOCK RELEASE SYSTEM.

**9. UP BUTTON:**

- WHEN USED IN CONJUNCTION WITH THE LOCK RELEASE BUTTON, ALLOWS FLUID TO ENERGIZE THE LIFTING CYLINDERS.

**10. FORE CONTROL BUTTON:**

- WITH LEVEL CONTROL SWITCH IN THE MANUAL MODE, ALLOWS OPERATOR TO MANUALLY ADJUST THE FORE END OF THE LIFT UP WHEN IT IS LOW. ( INOPERABLE WHEN THE LEVEL CONTROL SWITCH IS IN THE AUTO MODE )

**11. FORE LEVEL INDICATOR LIGHT:**

- WITH THE LEVEL CONTROL SWITCH IN AUTO, WILL REMAIN ILLUMINATED UNTIL FORE END IS OUT OF LEVEL. ( INOPERABLE, AND NOT ILLUMINATED WHEN THE LEVEL CONTROL SWITCH IS IN THE MANUAL MODE )

**12. DOWN BUTTON:**

- WHEN USED IN CONJUNCTION WITH THE LOCK RELEASE BUTTON, ALLOWS THE LOWERING OF THE LIFTING CYLINDERS.

**13. AFT CONTROL BUTTON:**

- WITH LEVEL CONTROL SWITCH IN MANUAL, ALLOWS OPERATOR TO MANUALLY ADJUST THE AFT END OF THE LIFT UP WHEN IT IS LOW. (INOPERABLE WHEN THE LEVEL CONTROL SWITCH IS IN THE AUTO MODE )

**14. AFT LEVEL INDICATOR LIGHT:**

- WITH THE LEVEL CONTROL SWITCH IN AUTO, LIGHT WILL REMAIN ILLUMINATED UNTIL AFT END IS OUT OF LEVEL (INOPERABLE AND NOT ILLUMINATED WHEN THE LEVEL CONTROL SWITCH IS IN THE MANUAL MODE )

**15. DOWN SETTLE BUTTON:**

- PRESSING THIS BUTTON WILL REMOVE THE PRESSURE FROM THE LIFTING CYLINDERS AND ZERO THE FORE AND AFT GAUGES. USE THIS BUTTON TO SET THE UNIT ON THE MECHANICAL SAFETIES OR TO LOWER THE UNIT COMPLETELY FLAT ON THE FLOOR.

## 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 PROBABLE PROBLEM AREA. 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 WERE NO PROBLEMS EXPERIENCED DURING THE PREVIOUS DAY'S USAGE. IF THERE WERE ANY PROBLEMS, VERIFY THAT ALL NECESSARY REPAIRS HAVE BEEN COMPLETED.

## LIFTING PROCEDURES

### PLACING VEHICLE ON LIFT

- PERFORM PRE-OPERATION CHECK LIST ITEM BY ITEM.
- POSITION THE VEHICLE ONTO THE UNIT SO THAT ALL TIRES ARE SECURELY ON THE TRACKS. REFER TO "LIFTING IT RIGHT" MANUAL AND ANSI/SAE J2184-OCT92 FOR VEHICLE LIFT POINTS AND PROPER STANDARD LIFTING PRACTICES.
- CENTER THE VEHICLE SO THAT THE WEIGHT IS DISTRIBUTED EVENLY FORE AND AFT. THIS CAN BE VERIFIED BY MONITORING THE PRESSURE GAUGES ON THE CONTROL CONSOLE PANEL. THE READINGS SHOULD BE THE SAME OR WITHIN 300 P.S.I. THE LIFT MAY NEED TO BE RAISED SLIGHTLY TO OBTAIN THESE PRESSURE READING.
- PLACE THE WHEEL CHOCKS IN A POSITION SO THAT THE VEHICLE WILL BE SECURE ON THE UNIT.

### TO RAISE

- TURN ON THE POWER UNIT.
- SIMULTANEOUSLY PRESS & HOLD THE LOCK RELEASE THEN THE UP BUTTON.
- RAISE VEHICLE TO THE DESIRED WORKING HEIGHT. RELEASE BUTTONS.
- LOWER THE UNIT ONTO THE MECHANICAL SAFETIES BY PRESSING THE DOWN SETTLE

BUTTON UNTIL THE GAUGES BOTH READ APPROXIMATELY ZERO.

- TURN OFF THE POWER UNIT

### TO LOWER

- INSPECT THE LIFTING AREA TO INSURE THAT ALL PERSONNEL AND DEBRIS HAVE BEEN CLEARED FROM THE LIFTING AREA.
- TURN ON THE POWER UNIT.
- SIMULTANEOUSLY PRESS & HOLD THE LOCK RELEASE AND THE UP BUTTON.
- RAISE UNIT APPROXIMATELY TWO INCHES. RELEASE THE UP BUTTON ONLY, STILL HOLDING THE LOCK RELEASE BUTTON AND THEN PRESS THE DOWN BUTTON.
- CONTINUE TO HOLD THE BUTTONS UNTIL THE TRACKS ARE AT THE DESIRED HEIGHT OR ARE FULLY LOWERED AND DOWNWARD MOTION HAS HALTED.
- IF LOWERING ONTO MECHANICAL SAFETIES, RELEASE BOTH BUTTONS, THEN PRESS THE DOWN SETTLE BUTTON UNTIL THE GAUGES BOTH READ APPROXIMATELY ZERO.
- IF LOWERING TO THE FLOOR, LOWER FULLY UNTIL UNIT STOPS, RELEASE DOWN BUTTON ONLY, AND WHILE MAINTAINING LOCK RELEASE BUTTON, PRESS THE DOWN SETTLE BUTTON UNTIL THE GAUGES BOTH READ APPROXIMATELY ZERO.
- TURN OFF THE POWER UNIT

## **MAINTENANCE PROCEDURES**

### **DAILY**

- PERFORM PRE-OPERATION CHECK LIST.
- REPORT ANY AND ALL EQUIPMENT MALFUNCTIONS IMMEDIATELY.
- CLEAN AND LUBRICATE ALL MOVING PARTS.
- KEEP AREA AROUND THIS EQUIPMENT FREE OF DIRT, SAND, WATER, ETC.

### **WEEKLY**

- WIPE CLEAN, THE CYLINDERS WIPER SEALS AND THE BASE OF EACH POST TO REMOVE WEEPING OIL AND DUST.
- VERIFY FLUID LEVEL. WITH UNIT FULLY LOWERED, LEVEL INDICATOR ON RESERVOIR IS TO READ FULL. USE DEXRON II AS REPLACEMENT FLUID.

### **MONTHLY**

- INSPECT ALL HYDRAULIC COMPONENTS FOR LEAKS, AND DEFORMATION DUE TO WEAR OR CORROSION.
- TIGHTEN ALL FASTENERS AND HYDRAULIC FITTINGS.
- INSPECT ANCHOR CONDITIONS FOR ANY POSSIBLE CORROSION AND INSPECT THE

FLOOR CONDITION FOR ANY SIGNS OF FATIGUE.

- CLEAN AND LUBRICATE CHAINS WITH A LIGHT CHAIN LUBRICANT. ( DO NOT USE HEAVY GREASE ) REMOVE CAP IN CENTERS OF CROSSRAILS TO VISUALLY INSPECT CHAINS THAT ARE ROUTED THROUGH CROSSRAILS. ALSO, REMOVE COVERS FROM CARRIAGES TO VISUALLY INSPECT CHAIN AT BEARING LOCATIONS.

### **SEMI- ANNUAL TRAINING**

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

### **ANNUALLY**

- REPLACE AND RE-BLEED THE HYDRAULIC FLUID. ALWAYS USE A CLEAN FUNNEL AND FILTER.
- REPLACE HYDRAULIC FLUID FILTER ELEMENT.
- INSPECT ALL FLANGE BEARINGS FOR UNUSUAL OR EXCESSIVE WEAR.
- PERFORM THE DAILY, WEEKLY, AND MONTHLY MAINTENANCE.
- REMOVE AND INSPECT SAFETY LOCKING BARS AND WEDGES.

## TROUBLE SHOOTING CHART

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

POSSIBLE CAUSE	PROBLEM	SOLUTION
<b>NOT RAISING LOAD</b>		
LOCK RELEASE BUTTON NOT ENGAGED	DEPRESS LOCK RELEASE BUTTON. ( AN AUDIBLE ALARM WILL SOUND ) THEN DEPRESS THE UP BUTTON.	
LOW HYDRAULIC FLUID	LOWER UNIT COMPLETELY. DISCONNECT POWER SUPPLY. OPEN CONSOLE. VERIFY PROPER FLUID LEVEL AT SIGHT GLASS ON RESERVOIR.	
PRESSURE RELIEF ADJUSTMENT	REFER TO POWER UNIT SPECIFICATIONS.	
UNIT OVERLOADED	VEHICLE TOO HEAVY TO BE RAISED.	
WRONG ROTATION OF MOTOR	REVERSE POWER LINES. ( HAVE AN ELECTRICIAN SERVICE )	
VEHICLE NOT CENTERED ON UNIT	CENTER VEHICLE ON UNIT SO THAT BOTH CONSOLE PRESSURE GAUGES ARE EVEN.	
LOW VOLTAGE	HAVE AN ELECTRICIAN SERVICE.	
<b>NOT LOWERING</b>		
LOCKS ENGAGED	DEPRESS LOCK RELEASE BUTTON. ( AN AUDIBLE ALARM WILL SOUND ) THEN DEPRESS THE UP BUTTON. RAISE UNIT APPROX. 5 INCHES. THEN WHILE STILL DEPRESS THE LOCK RELEASE BUTTON. DEPRESS THE LOWERING BUTTON.	
OBSTRUCTION UNDER UNIT OR VEHICLE	REMOVE OBSTRUCTION.	
FORE / AFT END NOT LOWERING	RAISE LOW END TO EVEN UNIT BEFORE LOWERING. USE THE FORE / AFT BUTTONS.	
<b>RAISING OR LOWERING QUESTIONS ( IN AUTO POSITION )</b>		
RAISING: UNIT STOPS THEN ONE END RAISES, UNIT BEGINS TO RAISE NORMALLY.	UNIT IS AUTO-LEVELING. IF THE FORE / AFT END OF THE UNIT IS LOW DURING RAISING THE UNIT WILL STOP, RAISE THE LOW END TO EVEN THE UNIT, THEN BEGAN TO RAISE NORMALLY.	
LOWERING : UNIT STOPS LOWERING, THEN ONE END RAISES, UNIT BEGINS TO LOWER NORMALLY.	UNIT IS AUTO-LEVELING. IF THE FORE / AFT END OF THE UNIT IS LOW DURING LOWERING THE UNIT WILL STOP, RAISE THE LOW END TO EVEN THE UNIT, THEN BEGAN TO LOWER NORMALLY.	
UNIT CONSTANTLY MAKING AUTO ADJUSTMENTS.	CENTER VEHICLE ON UNIT SO THAT BOTH CONSOLE PRESSURE GAUGES ARE EVEN.	
	- OR -	
	FLUID LEVEL IN AUTO LEVELER IS EITHER TOO LOW OR TOO HIGH	
<b>RAISING OR LOWERING QUESTIONS ( IN NORMAL POSITION )</b>		
UNIT RAISING UNEVEN	CENTER VEHICLE ON UNIT SO THAT BOTH CONSOLE PRESSURE GAUGES ARE EVEN.	
UNIT LOWERING UNEVEN	CENTER VEHICLE ON UNIT SO THAT BOTH CONSOLE PRESSURE GAUGES ARE EVEN.	

**TO BE USED IN CONJUNCTION WITH ELECTRICAL SCHEMATIC****TR-35 POWER UNIT SPECS**

POWER UNIT #601-300-011  
5 HP, 3 PHASE, 60 HZ, 1800 RPM

VOLTAGE (VAC)	FULL LOAD AMPS	HEATER ELEMENT	PRIMARY FUSE (AMPS)	SECONDARY FUSE (AMPS)	PRIMARY X-FORM WIRING	SECONDARY X-FORM WIRING
208	17	W-56	1.6	3.2	H1-H2	X1-X4
230	15.4	W-54	1.4	3.2	H1-H2	X1-X4
480	7.7	W-47	0.6	3.2	H1-H4	X1-X4
575	6.2	W-45	0.6	3.2	H1-H5	X1-X4

**TR-50 POWER UNIT SPECS**


POWER UNIT #601-300-009  
7.5 HP, 3 PHASE, 60 HZ, 1800 RPM

VOLTAGE (VAC)	FULL LOAD AMPS	HEATER ELEMENT	PRIMARY FUSE (AMPS)	SECONDARY FUSE (AMPS)	PRIMARY X-FORM WIRING	SECONDARY X-FORM WIRING
208	25.5	W-60	1.6	3.2	H1-H2	X1-X4
230	20	W-59	1.4	3.2	H1-H2	X1-X4
480	11.5	W-51	0.6	3.2	H1-H4	X1-X4
575	9.2	W-49	0.6	3.2	H1-H5	X1-X4

**TR-75 POWER UNIT SPECS**

POWER UNIT #601-300-015  
10 HP, 3 PHASE, 60 HZ, 1800 RPM

VOLTAGE (VAC)	FULL LOAD AMPS	HEATER ELEMENT	PRIMARY FUSE (AMPS)	SECONDARY FUSE (AMPS)	PRIMARY X-FORM WIRING	SECONDARY X-FORM WIRING
208	40	W-63	1.6	3.2	H1-H2	X1-X4
230	36	W-62	1.4	3.2	H1-H2	X1-X4
480	18	W-54	0.6	3.2	H1-H4	X1-X4
575	14.5	W-52	0.6	3.2	H1-H5	X1-X4

- ALL ELECTRICAL EQUIPMENT AND WIRING SHALL CONFORM TO ANSI/NFPA 70, NATIONAL ELECTRICAL CODE.
- 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.
- ALL FIELD WIRING / ELECTRICAL RELATED LABOR SHALL BE PERFORMED BY CERTIFIED ELECTRICIANS.
- UNIT MUST BE PROPERLY GROUNDED IN ACCORDANCE TO NEC ARTICLE 250 ( GROUNDING ), AND APPLICABLE LOCAL CODES.
-  DENOTES WIRE NUMBERS.
- 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.
- THE FOLLOWING COLOR WIRES SHALL BE RESERVED.  
GREEN: ALL EQUIPMENT GROUNDING CONDUCTORS.  
WHITE: ALL NEUTRAL CONDUCTORS.
- VERIFY PROPER MOTOR WIRING FOR PROPER VOLTAGE & ROTATION AT INITIAL START-UP.
- TRANSFORMER TERMINALS TO BE WIRED AND FUSED ACCORDING TO CUSTOMER'S POWER SUPPLY. SEE TABLES ABOVE FOR FUSE SIZES, HEATER ELEMENT SIZES, & TRANSFORMER WIRING.
- ALL FUSES TO BE CLASS CC TIME DELAY TYPE.

**SERVICE CHART**

MODEL TR-75

SERIAL NUMBER: \_\_\_\_\_

DATE OF INSTALLATION: \_\_\_\_\_

<b>DATE</b>	<b>PART REPLACED / SERVICED</b>	<b>SERVICE COMPANY</b>	<b>SERVICED BY</b>

**MAINTENANCE CHART**

<b>DATE</b>	<b>MAINTENANCE PERFORMED</b>	<b>SERVICE COMPANY</b>	<b>SERVICED BY</b>

# MOHAWK

MODEL TR-75

## FIGURES & DIAGRAMS



### **MOHAWK RESOURCES LTD.**

65 VROOMAN AVENUE  
AMSTERDAM, NY 12010

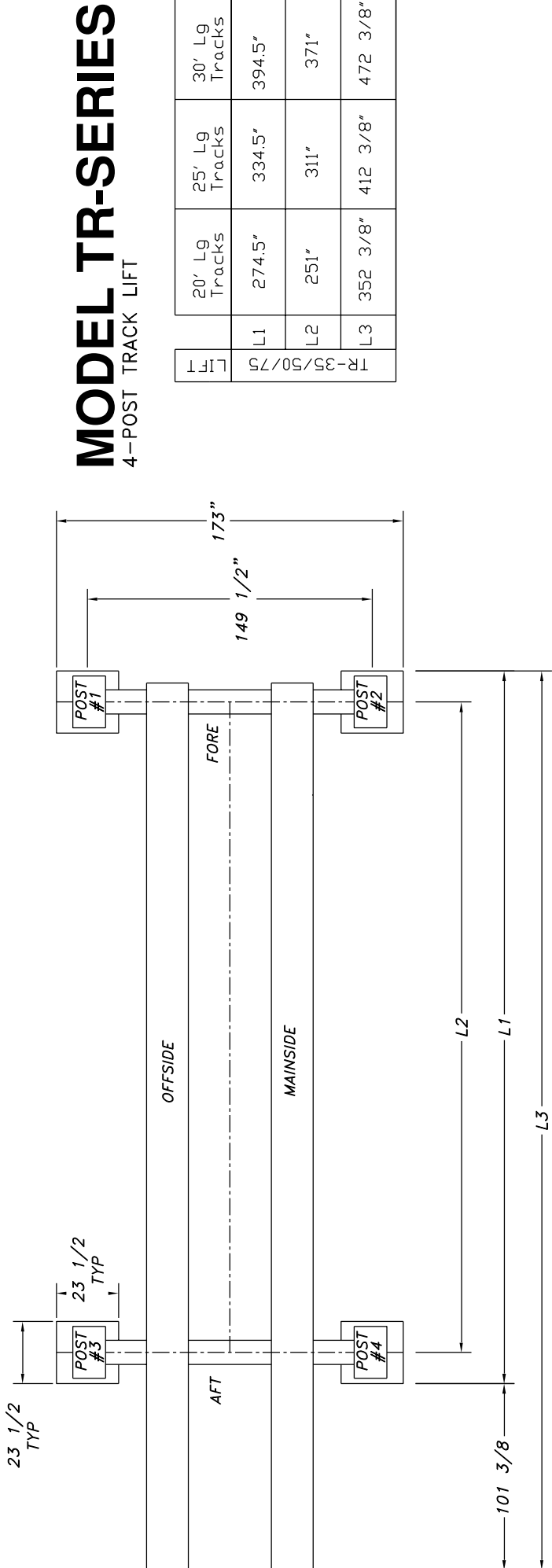
TOLL FREE : 1-800-833-2006

FAX : 1-518-842-1289

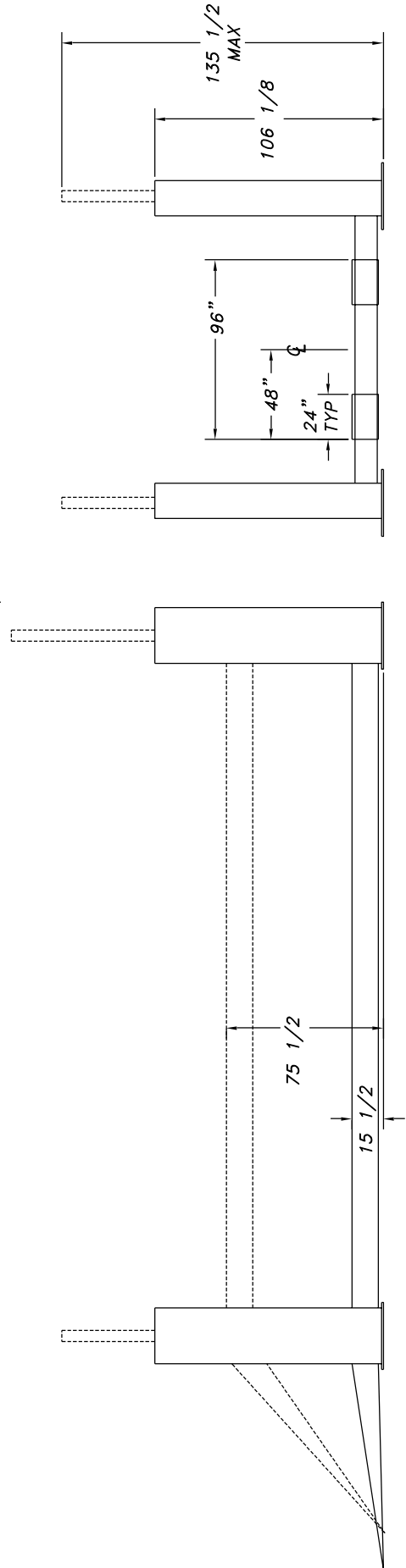
LOCAL : 1-518-842-1431

# MODEL TR-SERIES

## 4-POST TRACK LIFT

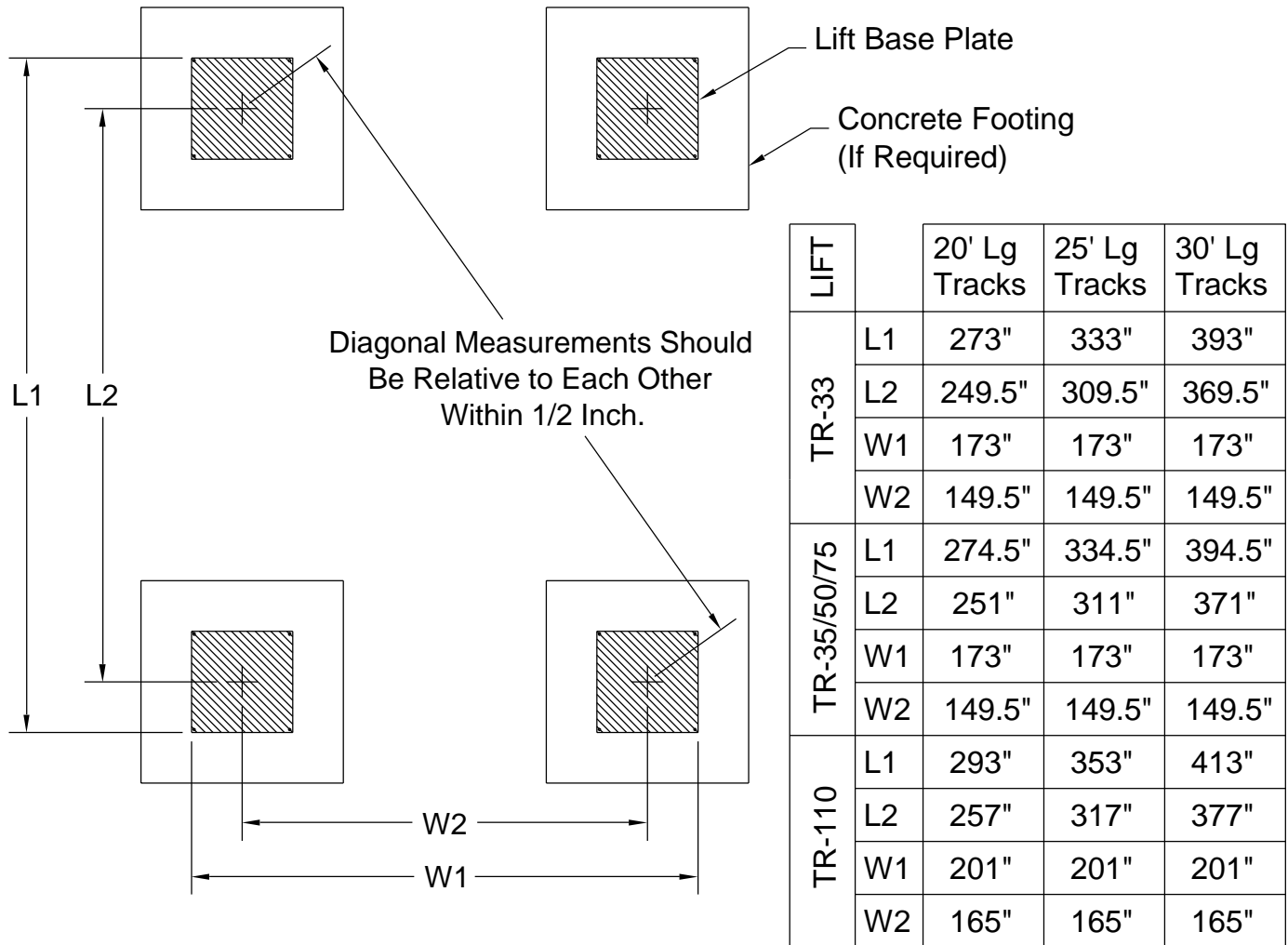


LIFT	20' Lg Tracks	25' Lg Tracks	30' Lg Tracks
L1	274.5"	334.5"	394.5"
L2	251"	311"	371"
L3	352 3/8"	412 3/8"	472 3/8"





# Diagonal Measurements Layout (TR-Series)



## FLOOR:

The floor should be flat and level. Concrete should be in good condition with a 4000 psi minimum strength and a five (5") inch minimum thickness. Concrete should be steel reinforced as per good commercial standard practices.

## CONCRETE:

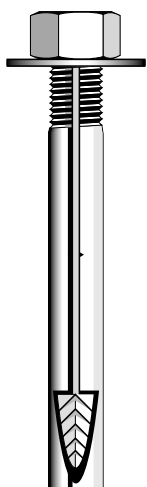
All concrete specifications must be carefully followed. Failure to do so may jeopardize life, equipment and property.

## IMPORTANT:

DO NOT DRILL mounting holes until the lift has been cycled up and down and is running freely. Insure all safety latches are free and performance is proper and absolute.

## FOOTINGS:

Four (4) footings 6 foot x 6 foot x 1 foot deep may be used if pre-existing concrete is of insufficient or questionable strength. These footings must be surrounded by a typical slab of structurally sound concrete with a minimum thickness of four (4") inches. These footings should be tied into the surrounding slab with steel reinforcement.



# 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, SCl
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 ZINC PLATED CARBON 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)   Shear (lbs)		7000 psi Tension (lbs)   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.

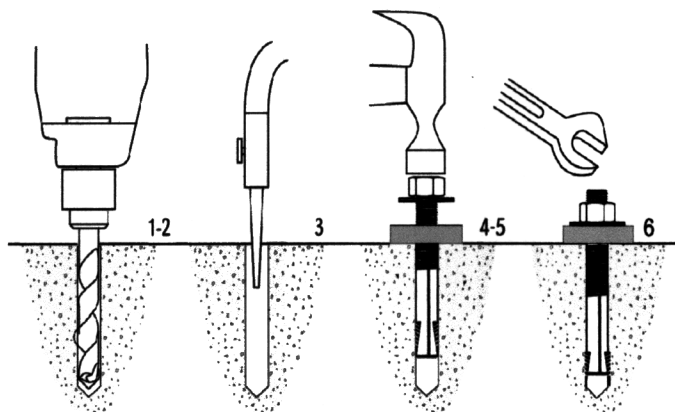


## ORDER INFORMATION

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

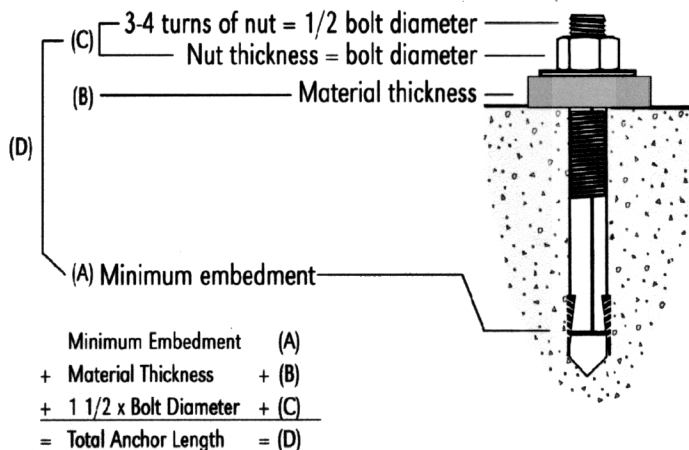
## INSTALLATION INSTRUCTIONS - MOHAWK LIFTS

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. 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.
5. Tap anchor into hole with a 2 1/2 lb. hammer until the washer rests solidly against fixture.
6. 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





# AT Wedge Anchors

## KEY FEATURES/BENEFITS

- **Will fit through a 1/16" larger pre-punched hole.**
- **Sets up fast.** Needs less rotation to achieve required torque.
- **Unique "Safety Shoulder" feature.** Supports clip when anchor is under stain, minimizes bolt-end collapse and/or clip slippage under ultimate loading conditions.
- **Enlarged dimples on clip.** Reduces slip, more responsive in lighter concrete.
- **360° segment contact on clip.** Equalizes load distribution providing greater load performance carrying capacity and "more forgiving" design.

## SPECIFICATIONS, APPROVALS AND LISTINGS

### TYPE

Zinc Plating	ASTM B-633, Type III, SCI
Galvanizing	ASTM A-153; B-454; B-695-82 and MIL-C-81562A with stainless steel clip.
ICBO-ES	Report #1821
City of Los Angeles	#RR 24939
DOT	Please call Customer Service for specific information by state.
Federal Specifications	QQZ-325Z, Type II, Class 3 (Clear Chromate added) FFS-325 Group II, Type 4, Class 1
Dade County	Acceptance #00-0328.02



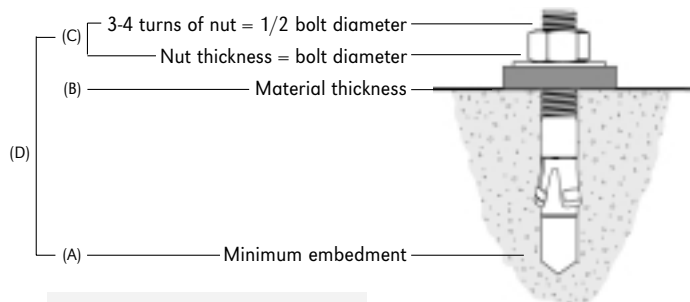
## MAXIMUM TENSILE AND SHEAR CAPACITY FOR STATIC LOADS

Anchor & Hole Size	Embedment (in)	ZINC PLATED CARBON STEEL			
		4000 psi		6000 psi	
		Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)
1/4	1 1/4	2000	2811	2042	2813
3/8	1 3/4	3165	3075	3165	3075
	4 5/8	4275	3075	5584	3075
1/2	2 1/2	6805	6260	8024	6260
	6 1/4	8249	7135	10713	7135
5/8	3 1/4	5180	9760	5057	6860
	6	12862	9760	16705	9760
3/4	3 3/4	12000	15860	12016	15860
	7 7/8	17756	23680	23060	23680
1	4	13000	32494	13278	32494

### 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.
- Tested to ASTM E-488 Test Standard.
- Sources (available upon request): 1) U.S. Testing Co., Tulsa, OK

## LENGTH SELECTION GUIDE

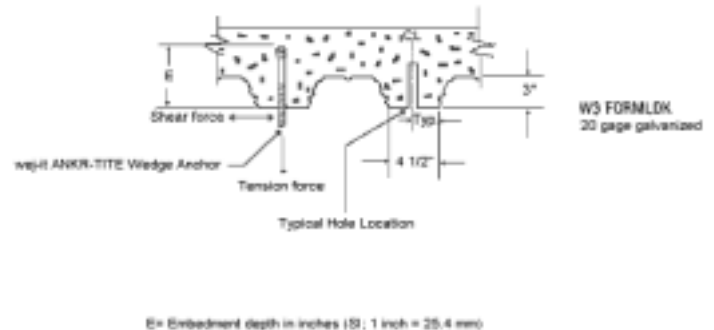


Minimum Embedment	(A)
+ Material Thickness	+ (B)
+ 1 1/2 x Bolt Diameter	+ (C)
= Total Anchor Length	= (D)

## CONCRETE FILLED STEEL DECK ULTIMATE TENSION & SHEAR (FT. LBS.)

Lower Flute of Steel Deck with Lightweight Concrete Fill* f'c = 3,000 PSI				
Anchor Dia. (in)	Install. Torque	Embed. Depth (in)	Tension (lbs)	Shear (lbs)
3/8	20-25	1 3/4	2414	4054
3/8		3	3169	
1/2	50-55	2 1/2	3458	5038
1/2		4	4274	
5/8	90-95	3 1/4	4199	5884
5/8		5	5036	
3/4	*	3 3/4	5136	8030
3/4		5 1/2	7711	

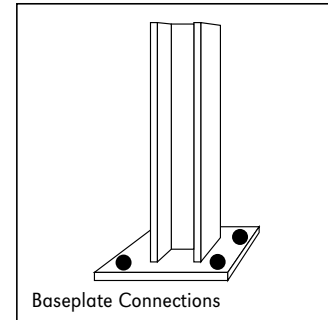
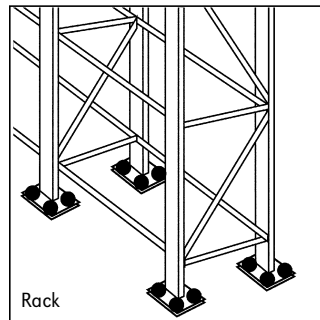
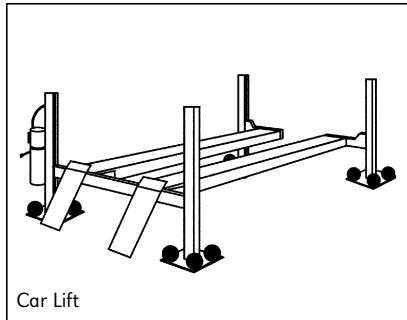
\*Available upon request



## EDGE DISTANCE AND SPACING REQUIREMENTS

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

## TYPICAL APPLICATIONS



## ORDER INFORMATION

Catalog Number				Anchor Diameter & Length (in)	Minimum Embedment (in)	Thread Length (in)	Quantity Box/Cartron
Carbon Steel Zinc Plated	Carbon Steel Galvanized	Stainless Steel 303/302HQ	Stainless Steel 316				
AT1413	ATG1413*	ATS1413	•	1/4 x 1 3/4	1 1/4	5/8	100/800
AT1421	ATG1421*	ATS1421	ATSS1421	1/4 x 2 1/4	1 1/4	1	100/800
AT1431	ATG1431*	ATS1431	ATSS1431	1/4 x 3 1/4	1 1/4	1	100/800
AT3821	ATG3821	ATS3821	ATSS3821	3/8 x 2 1/4	1 3/4	1	50/400
AT3823	ATG3823	ATS3823	ATSS3823	3/8 x 2 3/4	1 3/4	1 1/4	50/400
AT3830	ATG3830	ATS3830	ATSS3830	3/8 x 3	1 3/4	1 1/4	50/400
AT3833	ATG3833	ATS3833	ATSS3833	3/8 x 3 3/4	1 3/4	1 1/4	50/400
AT3850	ATG3850	ATS3850	•	3/8 x 5	1 3/4	1 1/4	50/300
AT1223	ATG1223	ATS1223	ATSS1223	1/2 x 2 3/4	2 1/8	1 1/8	25/200
AT1233	ATG1233	ATS1233	ATSS1233	1/2 x 3 3/4	2 1/8	1 1/2	25/200
AT1241	ATG1241	ATS1241	ATSS1241	1/2 x 4 1/4	2 1/8	2	25/200
AT1252	ATG1252	ATS1252	ATSS1252	1/2 x 5 1/2	2 1/8	3 1/4	25/150
AT1270	ATG1270	ATS1270	•	1/2 x 7	2 1/8	3 1/2	25/150
AT5832	ATG5832	ATS5832	•	5/8 x 3 1/2	2 5/8	1 5/16	10/80
AT5841	ATG5841	ATS5841	ATSS5841	5/8 x 4 1/4	2 5/8	2	10/80
AT5850	ATG5850	ATS5850	ATSS5850	5/8 x 5	2 5/8	2 3/4	10/80
AT5860	ATG5860	ATS5860	ATSS5860	5/8 x 6	2 5/8	3 1/2	10/80
AT5870	ATG5870	ATS5870	•	5/8 x 7	2 5/8	3 1/2	10/80
AT5882	ATG5882	ATS5882	•	5/8 x 8 1/2	2 5/8	3 1/2	10/40
AT5810	•	•	•	5/8 x 10	2 5/8	3 1/2	10/40
AT3441	ATG3441	ATS3441	•	3/4 x 4 1/4	3 1/4	1 1/2	10/80
AT3443	ATG3443	ATS3443	ATSS3443	3/4 x 4 3/4	3 1/4	2	10/80
AT3452	ATG3452	ATS3452	ATSS3452	3/4 x 5 1/2	3 1/4	2 3/4	10/60
AT3461	ATG3461	ATS3461	•	3/4 x 6 1/4	3 1/4	3 1/2	10/60
AT3470	ATG3470	ATS3470	ATSS3470	3/4 x 7	3 1/4	3 1/2	10/60
AT3482	ATG3482	ATS3482	•	3/4 x 8 1/2	3 1/4	3 1/2	10/40
AT3410	ATG3410	ATS3410	•	3/4 x 10	3 1/4	3 1/2	10/40
AT3412	ATG3412*	•	•	3/4 x 12	3 1/4	3 1/2	5/20
AT7860	ATG7860*	•	•	7/8 x 6	3 7/8	2 5/8	5/30
AT7880	ATG7880*	•	•	7/8 x 8	3 7/8	3	5/20
AT7810	ATG7810*	•	•	7/8 x 10	3 7/8	3	5/20
AT1060	ATG1060*	ATS1060	•	1 x 6	4 1/2	2 1/4	5/30
AT1090	ATG1090*	ATS1090	•	1 x 9	4 1/2	3	5/20
AT1012	ATG1012*	ATS1012	•	1 x 12	4 1/2	3	5/20

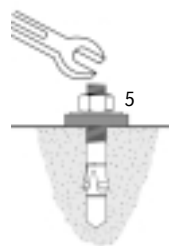
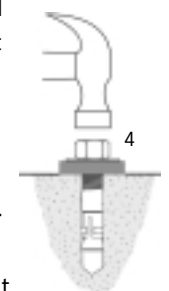
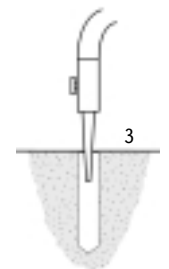
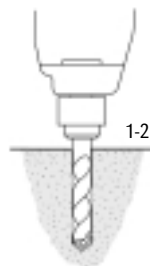
## TORQUE VALUES

Anchor Diameter (in)	Recommended Setting Torque (ft lb)	W/O Inspection Turns To Set
1/4	6-8	3-5
3/8	20-25	3-5
1/2	50-55	3-5
5/8	90-95	3-5
3/4	165-175	3-5
7/8	240-250	3-5
1	290-300	3-5



## INSTALLATION INSTRUCTIONS

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. Assemble the washer and nut on the anchor so that the nut protrudes slightly beyond the fixture. Insert anchor into the hole making sure the nut rests solidly against the fixture.
5. Tighten the nut 3 to 5 turns past the hand tight position. For torque settings refer to table at bottom left of page.



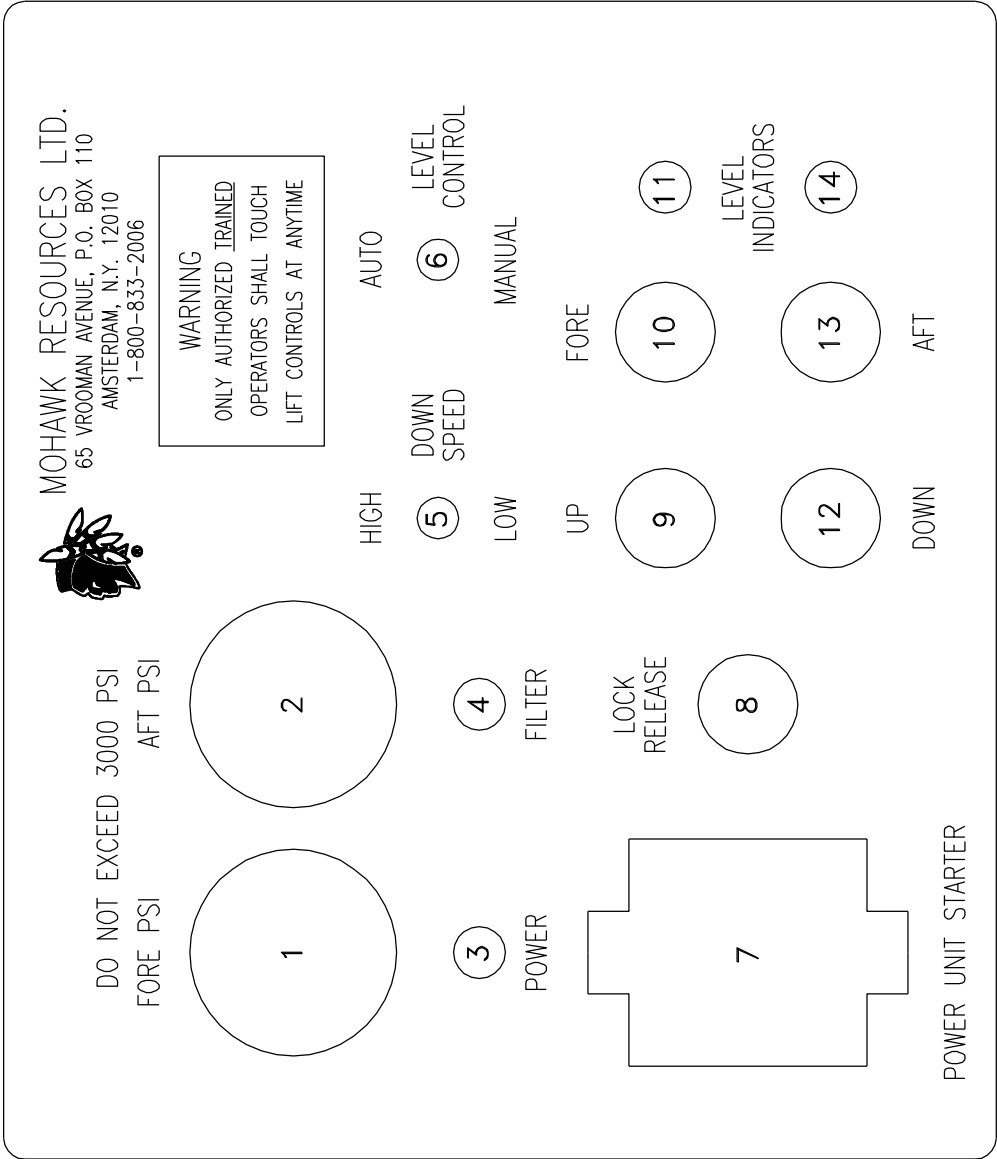
\* Call Customer Service for box/carton quantities.

\*\* 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.

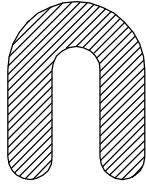
**DOWN SETTLE INSTRUCTIONS:**  
 THIS CONTROL IS USED TO RELEASE HYDRAULIC PRESSURE FROM ENTIRE LIFTING SYSTEM. THIS CONTROL OVERRIDES ALL SAFETY AND LEVELING FEATURES. USE THIS CONTROL ONLY TO LOWER LIFT FULLY TO FLOOR (WITHIN 6" OF FLOOR) OR TO LOWER LIFT COMPLETELY ON MECHANICAL LOCKS. DOWN SETTLING IS COMPLETE WHEN BOTH GAUGES READ ZERO.

**DOWN SETTLE**

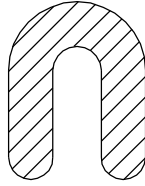
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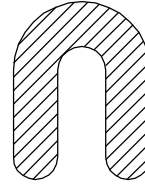
# POST SHIMMING



1/4" Thick  
(Black)

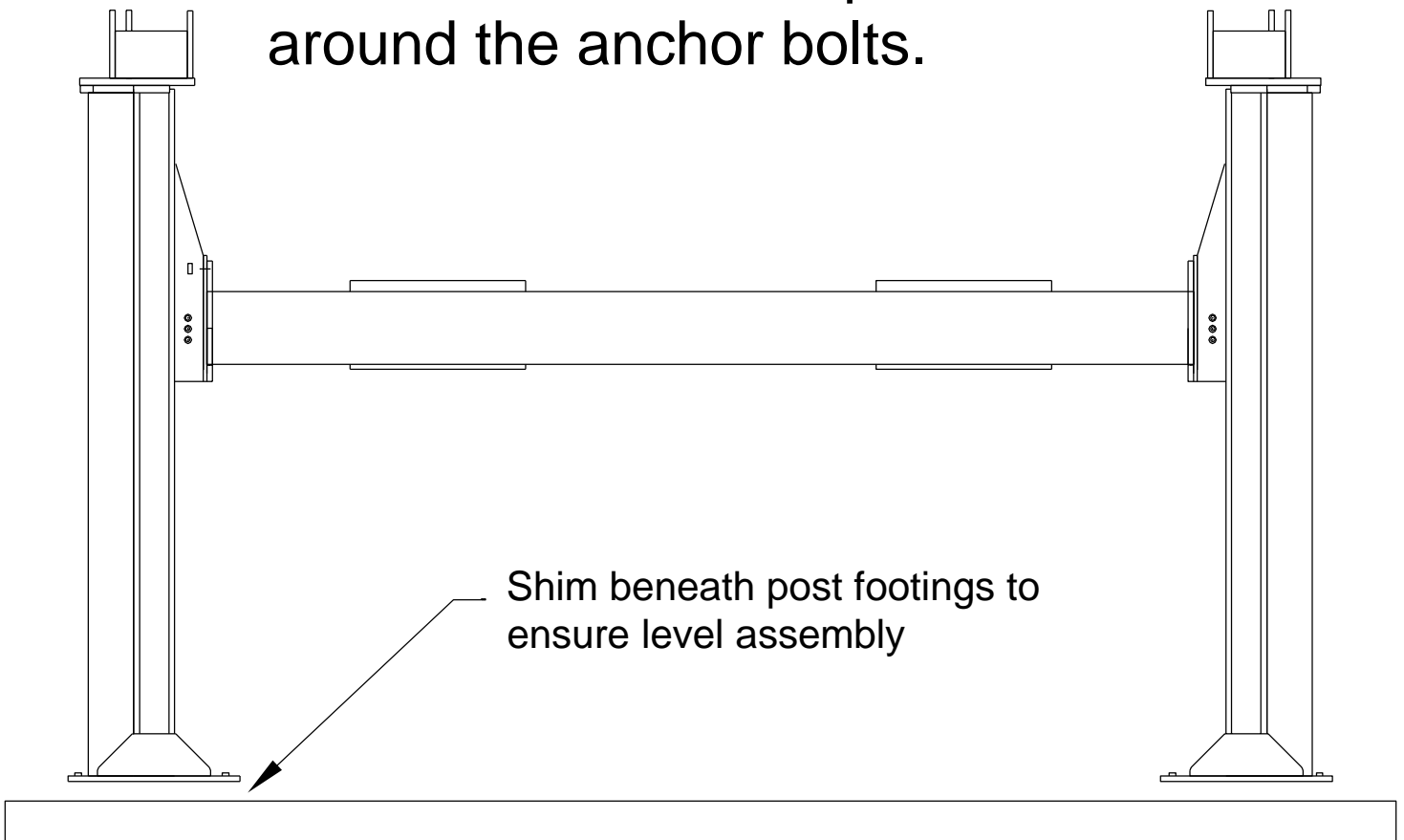


1/8" Thick  
(Red)



1/16" Thick  
(Blue)

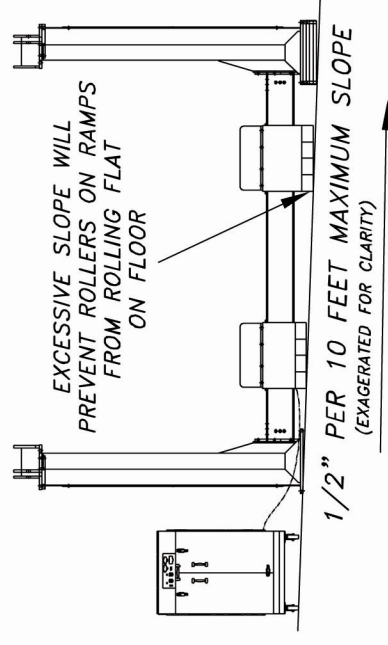
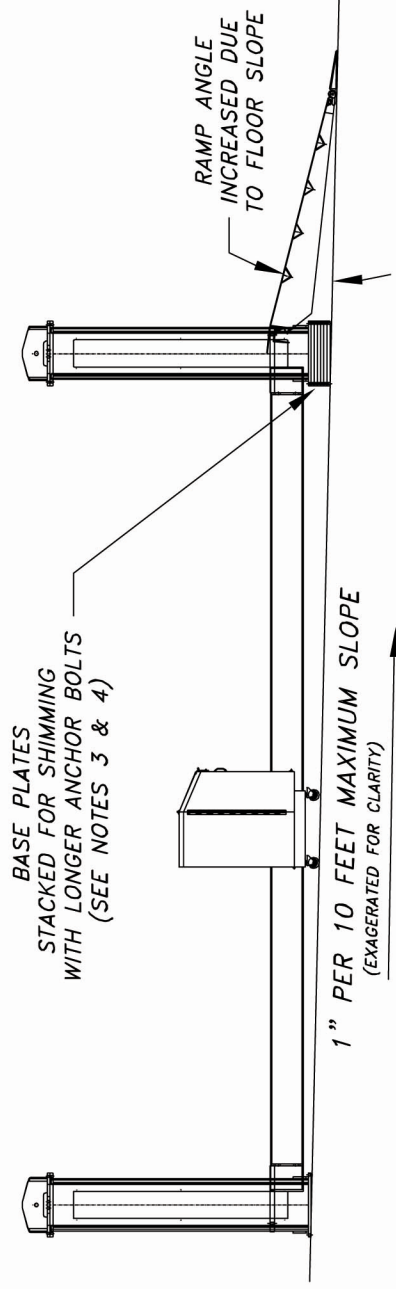
All post shims are designed to be underneath the base plates and around the anchor bolts.



# TR-SERIES FLOOR SLOPE & SHIMMING GUIDELINES

## IMPORTANT NOTICE:

THIS LIFT WILL ONLY LIFT AS LEVEL AS THE FLOOR IT IS LOCATED ON. SHIMMING AND/OR FLOOR MODIFICATIONS MAY BE REQUIRED TO LEVEL LIFT. SINCE EVERY OWNER'S SHOP FLOOR IS DIFFERENT, REVIEW THE FOLLOWING GUIDELINES TO PROPERLY LEVEL THIS LIFT.



## RECOMMENDED GUIDELINES:

1. MAXIMUM LENGTHWISE SLOPE IS 1" PER 10', MAXIMUM WIDTHWISE SLOPE IS 1/2" PER 10' FOR SLOPES GREATER THAN THIS, IT IS RECOMMENDED TO POUR A NEW SLAB FOR THIS LIFT.
2. FOR SHIMMING IN EXCESS OF 2", IT IS RECOMMENDED TO POUR NEW SLABS FOR POSTS. ENSURE THAT THE SURFACE OF THESE SLABS ARE LEVEL WITH RESPECT TO EACH OTHER.
3. USE 1/2" BASE PLATES FOR SHIMMING OF 1/2" OR GREATER UNDER POSTS. STACK BASE PLATES AS NEEDED. (CONTACT MOHAWK FOR EXTRA BASE PLATES FOR SHIMMING)
4. FOR SHIMMING IN EXCESS OF 1/2", LONGER WEJ-IT ANCHORS ARE REQUIRED. (CONTACT MOHAWK FOR LONGER ANCHORS PER YOUR SPECIFIC SHIMMING SITUATION)
5. FOR SHIMMING LESS THAN 1/2", USE PLASTIC SHIMS UNDER LOWEST BASE PLATE.
6. NOTICE THAT SHIMMING THE APPROACH (RAMP) END OF THE LIFT WILL INCREASE THE RAMP ANGLE SLIGHTLY.



# TRACK LEVELER FUNCTIONS

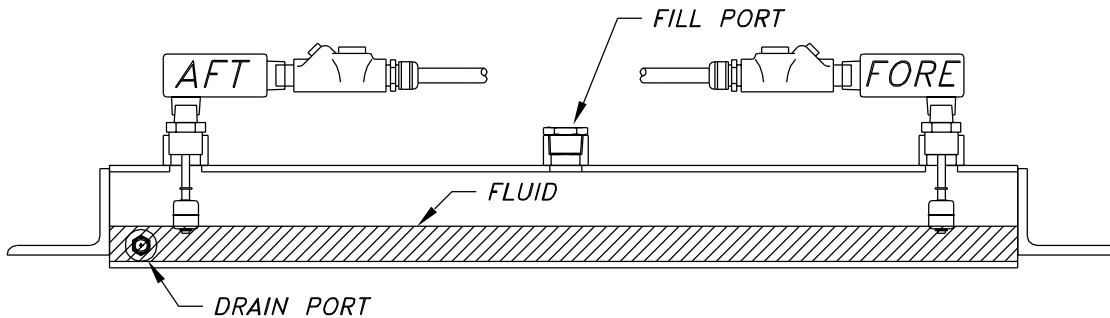
AFT LEVEL  
INDICATOR  
LIGHT

SYSTEM IS LEVEL

FORE LEVEL  
INDICATOR  
LIGHT



OFF



OFF

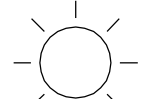
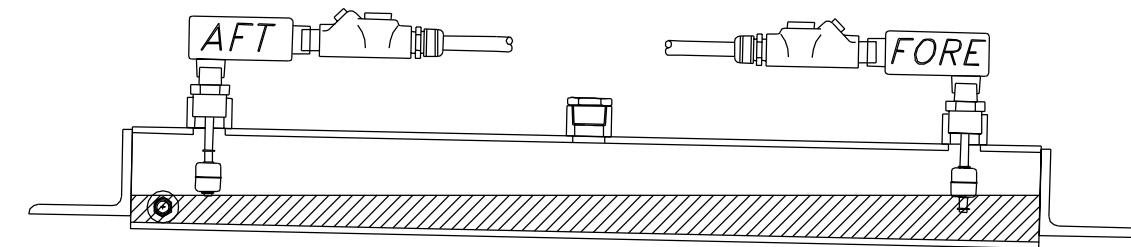
AFT LEVEL  
INDICATOR  
LIGHT

FORE END OF LIFT IS LOW

FORE LEVEL  
INDICATOR  
LIGHT



OFF

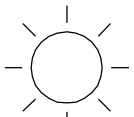


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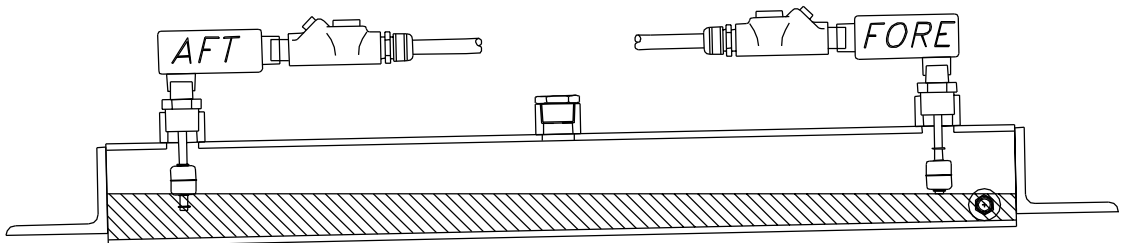
AFT LEVEL  
INDICATOR  
LIGHT

AFT END OF LIFT IS LOW

FORE LEVEL  
INDICATOR  
LIGHT



ON

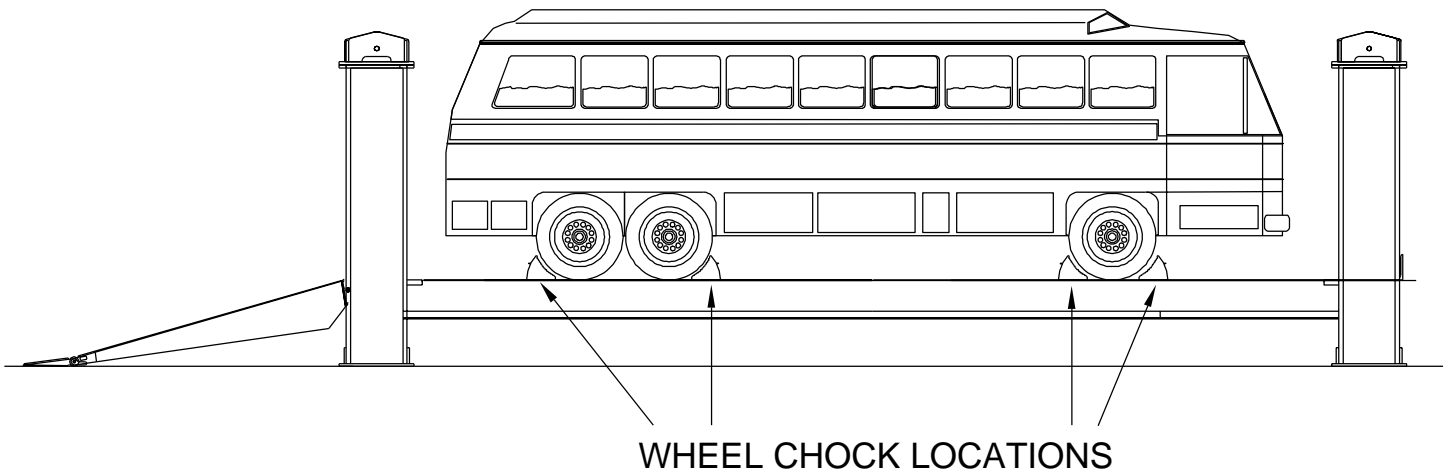
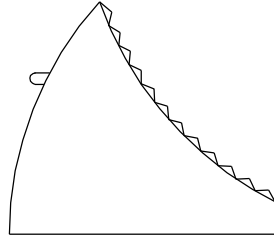


OFF

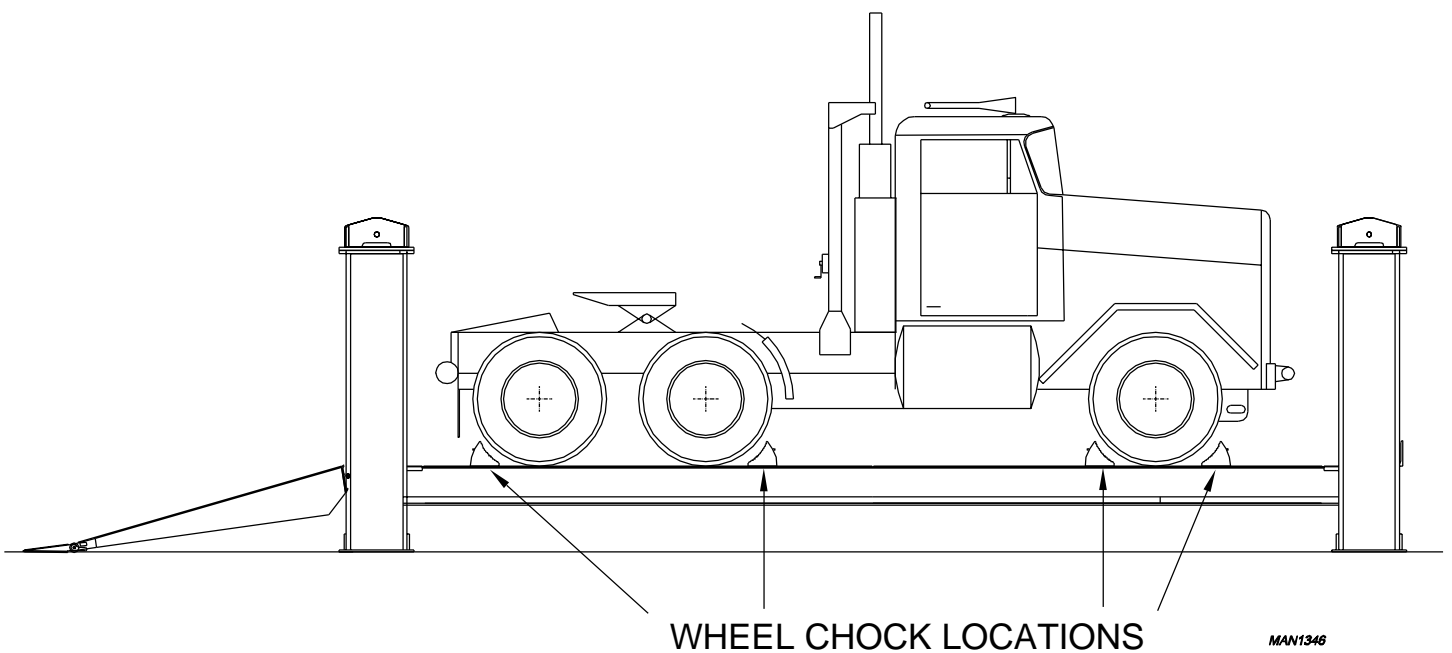
USE ANTI-FREEZE AS FLUID REPLACEMENT ONLY !!

# WHEEL CHOCK PLACEMENT

WHEEL  
CHOCK



WHEEL CHOCK LOCATIONS



WHEEL CHOCK LOCATIONS

# MOHAWK

## MODEL TR-75

### ELECTRICAL/HYDRAULIC SCHEMATICS



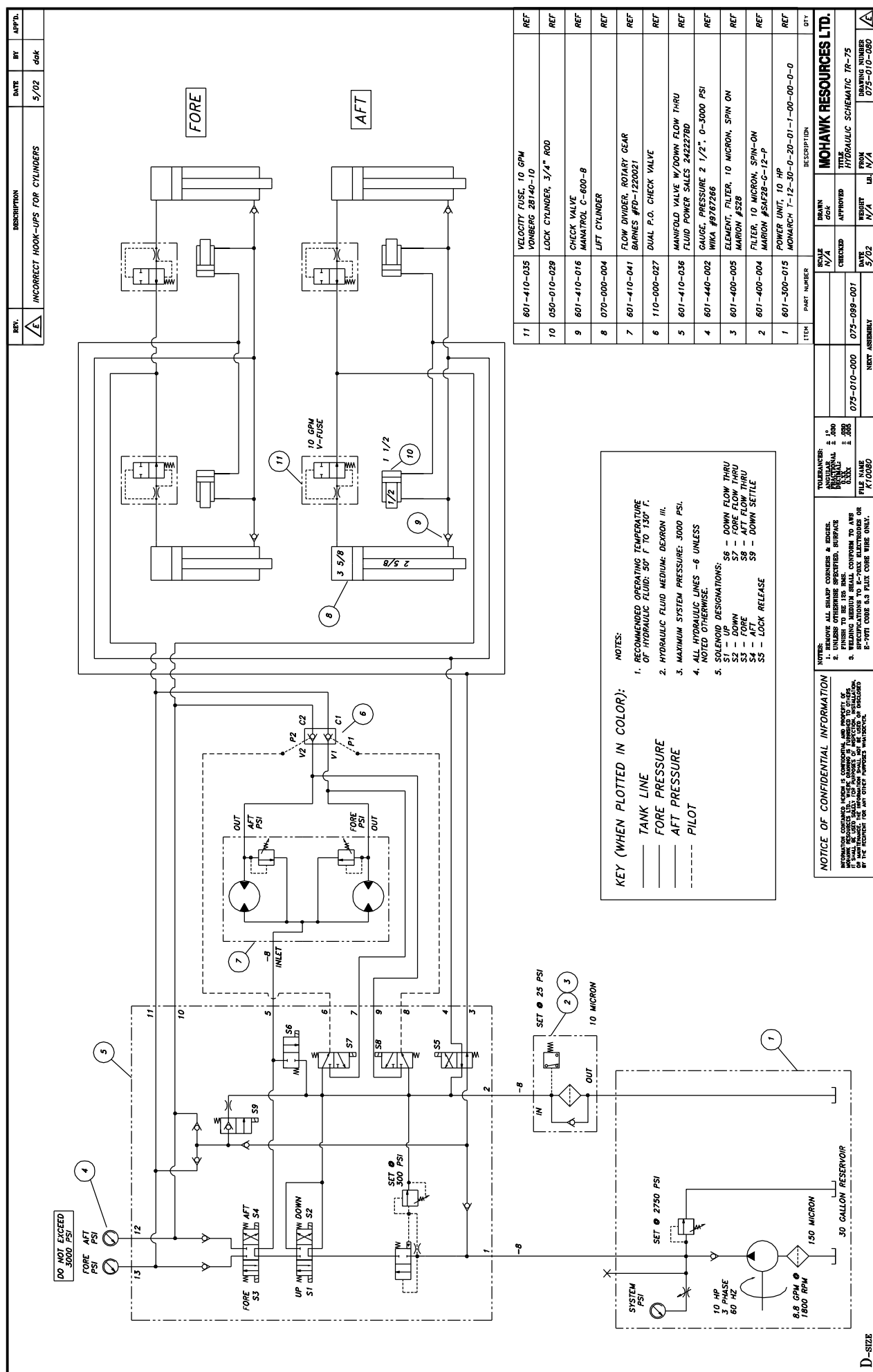
**MOHAWK RESOURCES LTD.**

65 VROOMAN AVENUE  
AMSTERDAM, NY 12010

TOLL FREE : 1-800-833-2006

FAX : 1-518-842-1289

LOCAL : 1-518-842-1431



D-SIZE





# MOHAWK

MODEL TR-75

## PARTS DRAWINGS



### **MOHAWK RESOURCES LTD.**

65 VROOMAN AVENUE  
AMSTERDAM, NY 12010

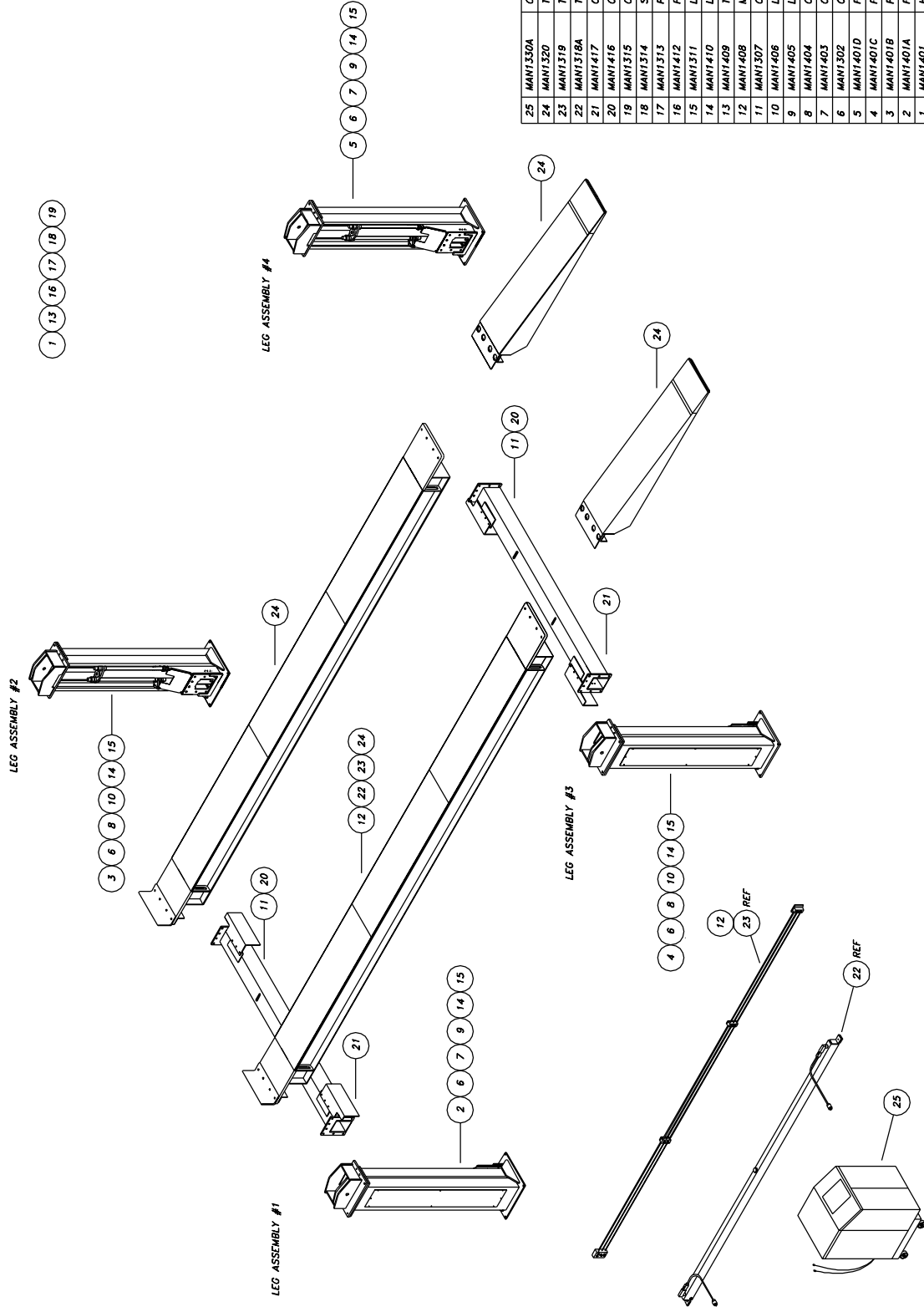
TOLL FREE : 1-800-833-2006

FAX : 1-518-842-1289

LOCAL : 1-518-842-1431

MAN1400

REV-B 10/99



ITEM	PART NUMBER	DESCRIPTION	QTY
25	MAN1350A	CONSOLE ASSEMBLY	REF
24	MAN1320	TRACK STOPS/RAMPS TO TRACKS	REF
23	MAN1319	TRACK MANIFOLD ASSEMBLY	REF
22	MAN1318A	TRACK LEVELER ASSEMBLY	REF
21	MAN1417	CROSSRAIL & CARRIAGE COVER ASSEMBLY	REF
20	MAN1416	CROSSRAIL & CARRIAGE COVER ASSEMBLY	REF
19	MAN1315	CHAIN ROUTING	REF
18	MAN1314	SMALL PARTS BAG	REF
17	MAN1313	PARTS BOX #2	REF
16	MAN1412	PARTS BOX #1	REF
15	MAN1311	LOCK CYLINDER ASSEMBLY	REF
14	MAN1410	LIFT CYLINDER ASSEMBLY	REF
13	MAN1409	TAG & DECAL LOCATION	REF
12	MAN1408	MAINSIDE TRACK ASSEMBLY	REF
11	MAN1307	CROSSRAIL ASSEMBLY	REF
10	MAN1406	LEG ASSEMBLY (LEG #2 & #3)	REF
9	MAN1405	LEG ASSEMBLY (LEG #1 & #4)	REF
8	MAN1404	CARRIAGE/CYLINDER ASSEMBLY (LEG #2 & #3)	REF
7	MAN1403	CARRIAGE/CYLINDER ASSEMBLY (LEG #1 & #4)	REF
6	MAN1302	CARRIAGE ASSEMBLY	REF
5	MAN1401D	FITTING LIST LEG ASSEMBLY #4	REF
4	MAN1401C	FITTING LIST LEG ASSEMBLY #3	REF
3	MAN1401B	FITTING LIST LEG ASSEMBLY #2	REF
2	MAN1401A	FITTING LIST LEG ASSEMBLY #1	REF
1	MAN1401	HYDRAULIC FITTINGS & LINES (LIFT ONLY)	REF

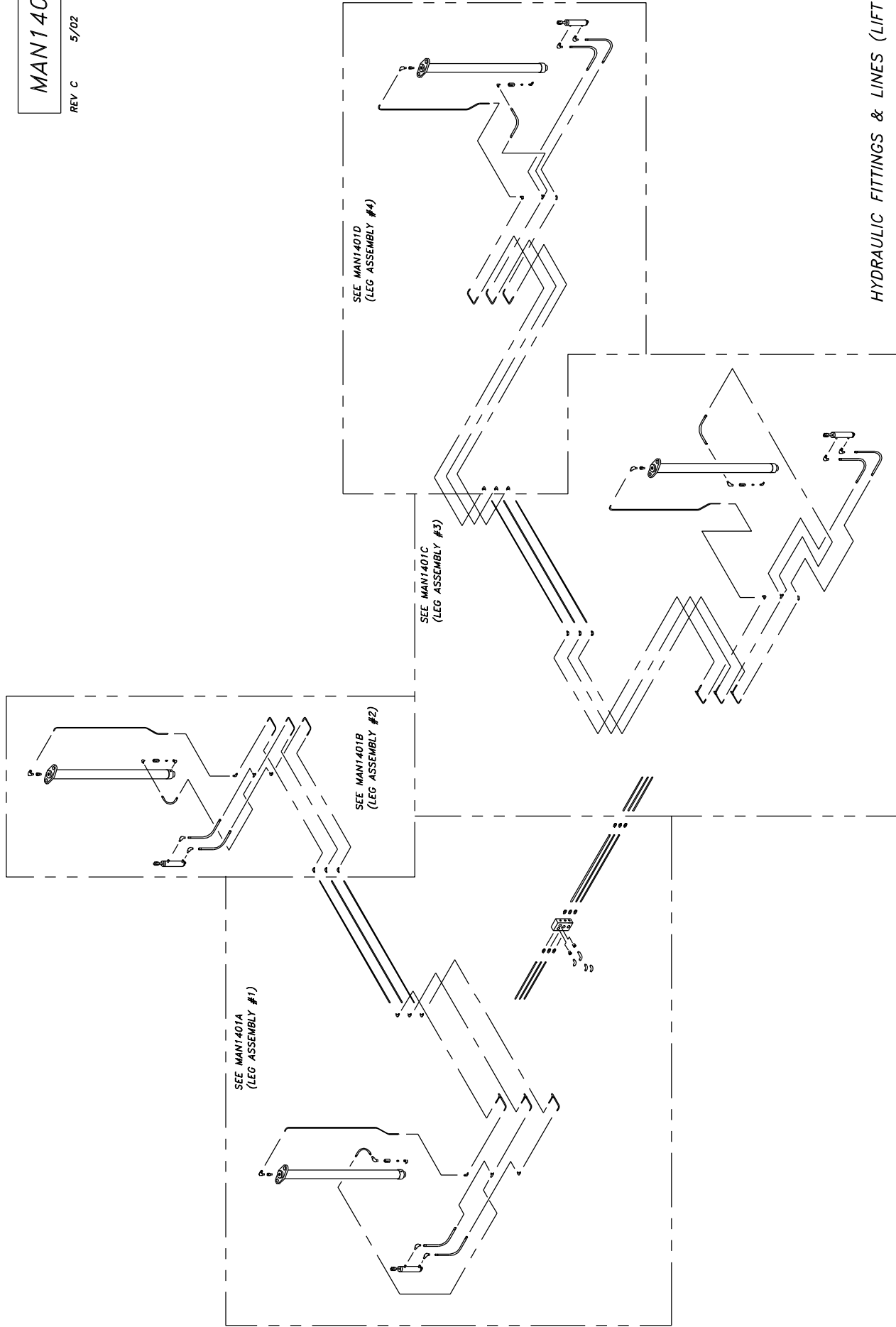
TR-75 LIFT FINAL ASSEMBLY

FILE: MAN1400  
DATE: 8/96



MAN1401

REV C 5/02

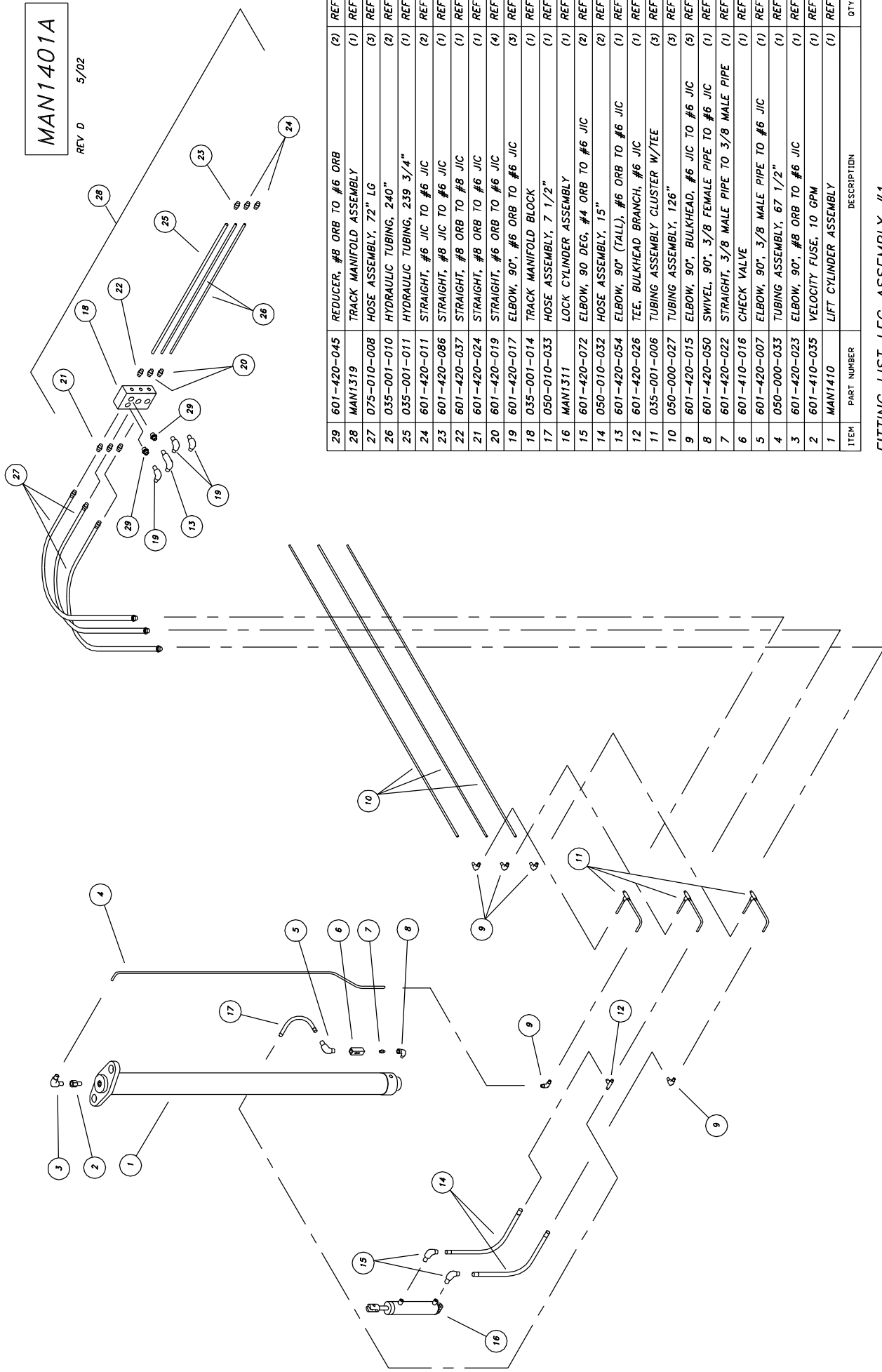


HYDRAULIC FITTINGS & LINES (LIFT ONLY)

FILE: MAN1401  
DATE: 8/96

MAN1401A

REV D 5/02

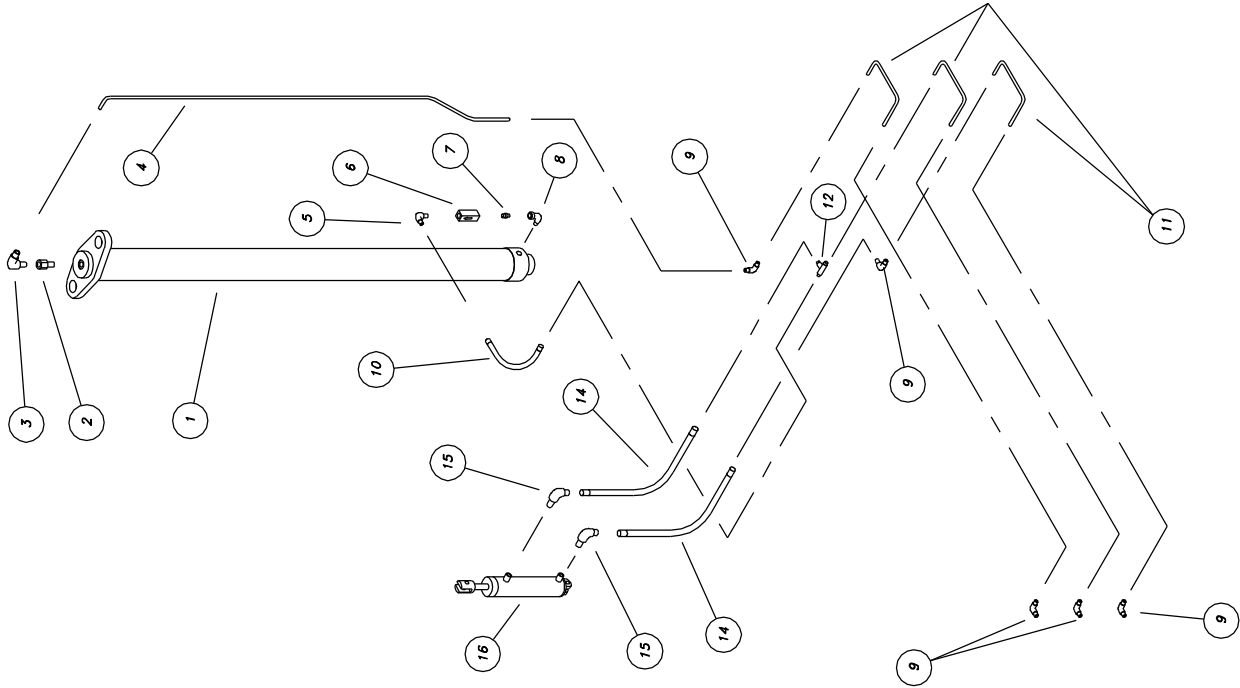


ITEM	PART NUMBER	DESCRIPTION	QTY
29	601-420-045	REDUCER, #8 ORB TO #6 ORB	(2) REF
28	MAN1319	TRACK MANIFOLD ASSEMBLY	(1) REF
27	075-010-008	HOSE ASSEMBLY, 72" LG	(3) REF
26	035-001-010	HYDRAULIC TUBING, 240"	(2) REF
25	035-001-011	HYDRAULIC TUBING, 239 3/4"	(1) REF
24	601-420-011	STRAIGHT, #6 JIC TO #6 JIC	(2) REF
23	601-420-086	STRAIGHT, #8 JIC TO #6 JIC	(1) REF
22	601-420-037	STRAIGHT, #8 ORB TO #8 JIC	(1) REF
21	601-420-024	STRAIGHT, #8 ORB TO #6 JIC	(1) REF
20	601-420-019	STRAIGHT, #6 ORB TO #6 JIC	(4) REF
19	601-420-017	ELBOW, 90°, #6 ORB TO #6 JIC	(3) REF
18	035-001-014	TRACK MANIFOLD BLOCK	(1) REF
17	050-010-033	HOSE ASSEMBLY, 7 1/2"	(1) REF
16	MAN1311	LOCK CYLINDER ASSEMBLY	(1) REF
15	601-420-072	ELBOW, 90 DEG, #4 ORB TO #6 JIC	(2) REF
14	050-010-032	HOSE ASSEMBLY, 15"	(2) REF
13	601-420-054	ELBOW, 90° (TALL), #6 ORB TO #6 JIC	(1) REF
12	601-420-026	TEE, BULKHEAD BRANCH, #6 JIC	(1) REF
11	035-001-006	TUBING ASSEMBLY CLUSTER W/TEE	(3) REF
10	050-000-027	TUBING ASSEMBLY, 126"	(3) REF
9	601-420-015	ELBOW, 90°, BULKHEAD, #6 JIC TO #6 JIC	(3) REF
8	601-420-050	SWIVEL, 90°, 3/8 FEMALE PIPE TO #6 JIC	(1) REF
7	601-420-022	STRAIGHT, 3/8 MALE PIPE TO 3/8 MALE PIPE	(1) REF
6	601-410-016	CHECK VALVE	(1) REF
5	601-420-007	ELBOW, 90°, 3/8 MALE PIPE TO #6 JIC	(1) REF
4	050-000-033	TUBING ASSEMBLY, 67 1/2"	(1) REF
3	601-420-023	ELBOW, 90°, #8 ORB TO #6 JIC	(1) REF
2	601-410-035	VELOCITY FUSE, 10 GPM	(1) REF
1	MAN1410	LIFT CYLINDER ASSEMBLY	(1) REF

FITTING LIST LEG ASSEMBLY #1

MAN1401B

REV B 5/02

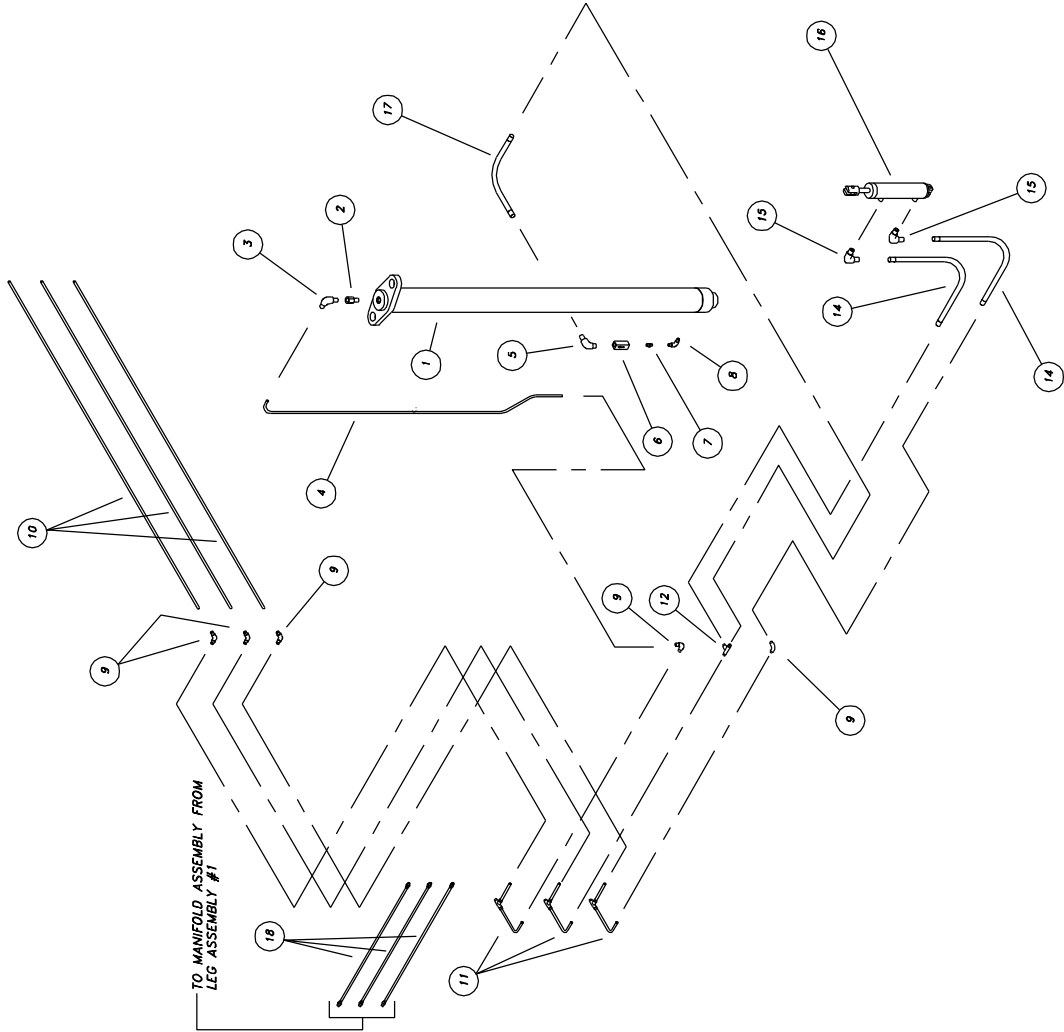


16	MAN1311	LOCK CYLINDER ASSEMBLY	(1)	REF
15	601-420-072	ELBOW, 90 DEG, #4 ORB TO #6 JIC	(1)	REF
14	050-010-032	HOSE ASSEMBLY, 15"	(2)	REF
13				
12	601-420-026	TEE, BULKHEAD BRANCH, #6 JIC	(1)	REF
11	050-000-032	TUBING ASSEMBLY, 13 1/8"	(3)	REF
10	050-010-033	HOSE ASSEMBLY, 7 1/2"	(1)	REF
9	601-420-015	ELBOW, 90°, BULKHEAD, #6 JIC TO #6 JIC	(5)	REF
8	601-420-050	SWIVEL, 90°, 3/8 FEMALE PIPE TO #6 JIC	(1)	REF
7	601-420-022	STRAIGHT, 3/8 MALE PIPE TO 3/8 MALE PIPE	(1)	REF
6	601-410-016	CHECK VALVE	(1)	REF
5	601-420-007	ELBOW, 90°, 3/8 MALE PIPE TO #6 JIC	(1)	REF
4	050-000-033	TUBING ASSEMBLY, 67 1/2"	(1)	REF
3	601-420-023	ELBOW, 90°, #8 ORB TO #6 JIC	(1)	REF
2	601-410-035	VELOCITY FUSE, 10 GPM	(1)	REF
1	MAN1410	LIFT CYLINDER ASSEMBLY	(1)	REF
ITEM	PART NUMBER	DESCRIPTION	QTY	

FITTING LIST LEG ASSEMBLY #2

MAN1401C

REV B 5/02

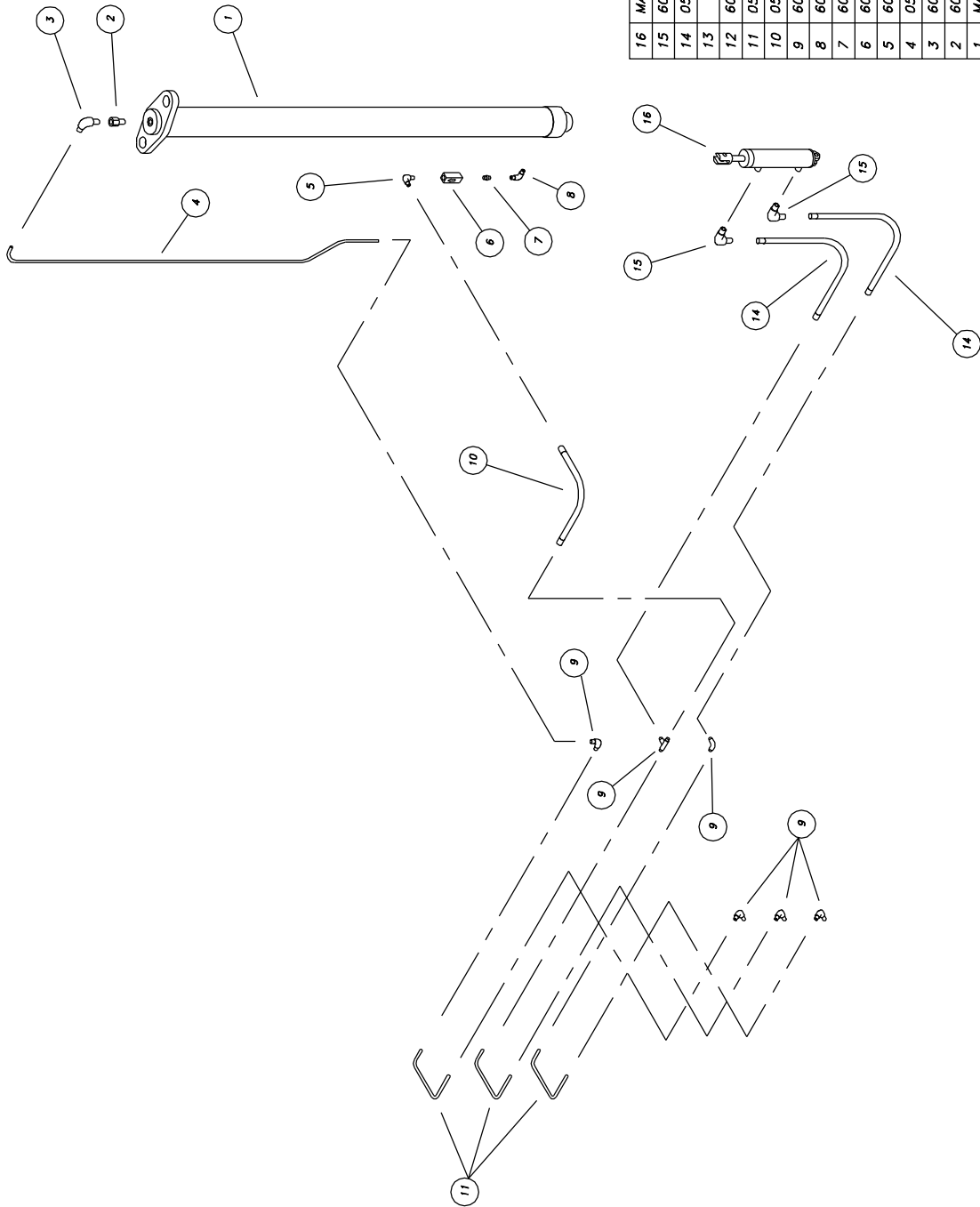


18	075-010-008	HOSE ASSEMBLY, 72" LG	(3)	REF
17	050-010-033	HOSE ASSEMBLY, 7 1/2"	(1)	REF
16	MAN1311	LOCK CYLINDER ASSEMBLY	(1)	REF
15	601-420-072	ELBOW, 90 DEG, #4 ORB TO #6 JIC	(2)	REF
14	050-010-032	HOSE ASSEMBLY, 15"	(2)	REF
13				
12	601-420-026	TEE, BULKHEAD BRANCH, #6 JIC	(1)	REF
11	035-001-006	TUBING ASSEMBLY CLUSTER W/TEE	(3)	REF
10	050-000-027	TUBING ASSEMBLY, 126"	(3)	REF
9	601-420-015	ELBOW, 90°, BULKHEAD, #6 JIC TO #6 JIC	(3)	REF
8	601-420-050	SWIVEL, 90°, 3/8 FEMALE PIPE TO #6 JIC	(1)	REF
7	601-420-022	STRAIGHT, 3/8 MALE PIPE TO 3/8 MALE PIPE	(1)	REF
6	601-410-016	CHECK VALVE	(1)	REF
5	601-420-007	ELBOW, 90°, 3/8 MALE PIPE TO #6 JIC	(1)	REF
4	050-000-033	TUBING ASSEMBLY, 67 1/2"	(1)	REF
3	601-420-023	ELBOW, 90°, #8 ORB TO #6 JIC	(1)	REF
2	601-410-035	VELOCITY FUSE, 10 GPM	(1)	REF
1	MAN1410	LIFT CYLINDER ASSEMBLY	(1)	REF
ITEM	PART NUMBER	DESCRIPTION	QTY	

FITTING LIST LEG ASSEMBLY #3

MAN1401D

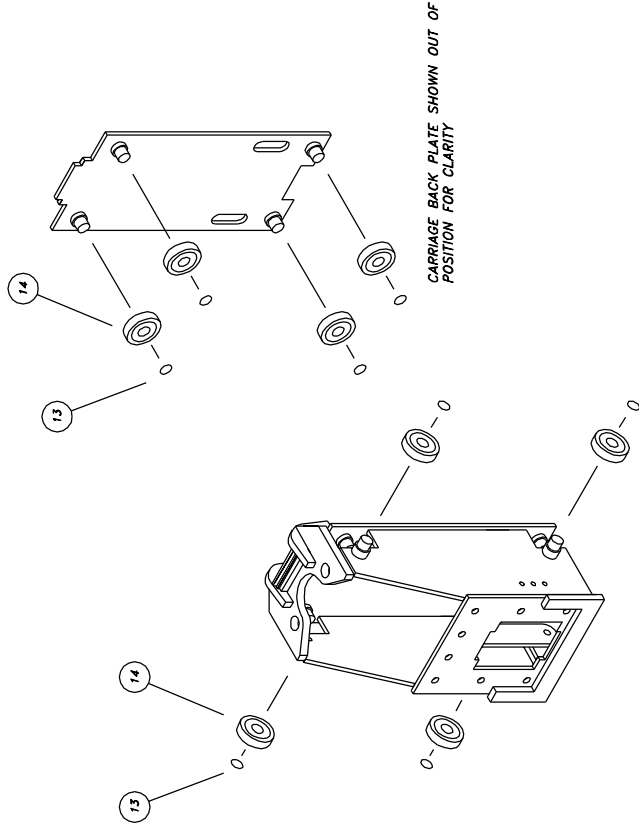
REV B 5/02



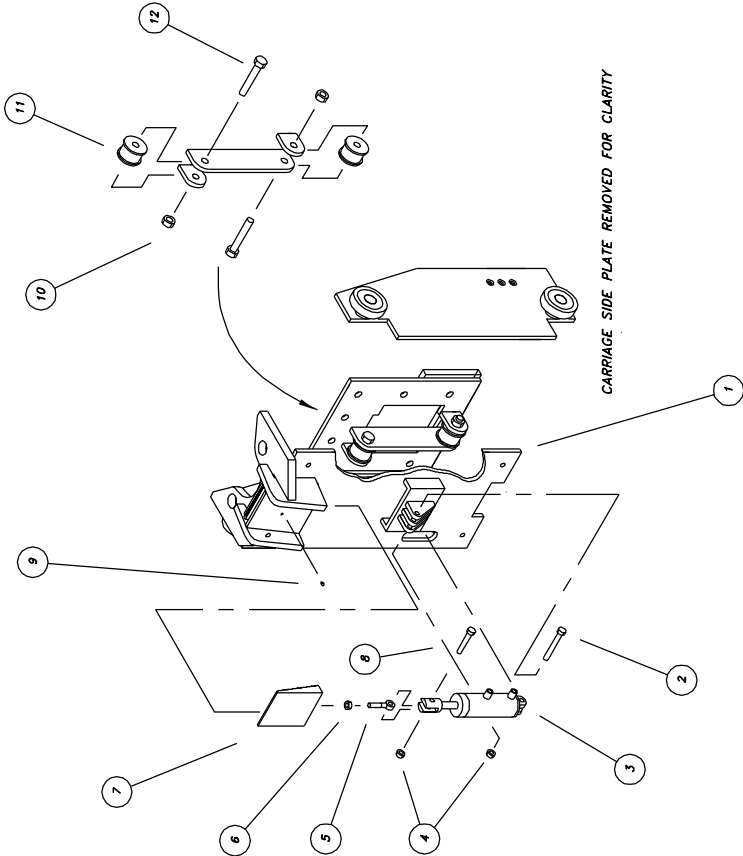
ITEM	PART NUMBER	DESCRIPTION	QTY
16	MAN1311	LOCK CYLINDER ASSEMBLY	(1) REF
15	601-420-072	ELBOW, 90 DEG, #4 ORB TO #6 JIC	(2) REF
14	050-010-032	HOSE ASSEMBLY, 15"	(2) REF
13			
12	601-420-026	TEE, BULKHEAD BRANCH, #6 JIC	(1) REF
11	050-000-032	TUBING ASSEMBLY, 13 1/8"	(3) REF
10	050-010-033	HOSE ASSEMBLY, 7 1/2"	(1) REF
9	601-420-015	ELBOW, 90°, BULKHEAD, #6 JIC TO #6 JIC	(9) REF
8	601-420-050	SWIVEL, 90°, 3/8 FEMALE PIPE TO #6 JIC	(1) REF
7	601-420-022	STRAIGHT, 3/8 MALE PIPE TO 3/8 MALE PIPE	(1) REF
6	601-410-016	CHECK VALVE	(1) REF
5	601-420-007	ELBOW, 90°, 3/8 MALE PIPE TO #6 JIC	(1) REF
4	050-000-033	TUBING ASSEMBLY, 67 1/2"	(1) REF
3	601-420-023	ELBOW, 90°, #8 ORB TO #6 JIC	(1) REF
2	601-410-035	VELOCITY FUSE, 10 GPM	(1) REF
1	MAN1410	LIFT CYLINDER ASSEMBLY	(1) REF

FITTING LIST LEG ASSEMBLY #4

MAN1302



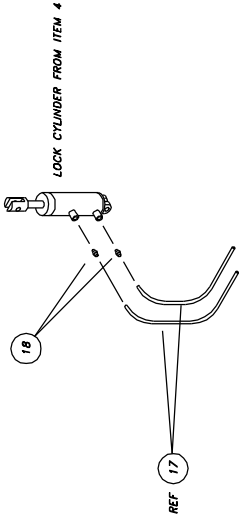
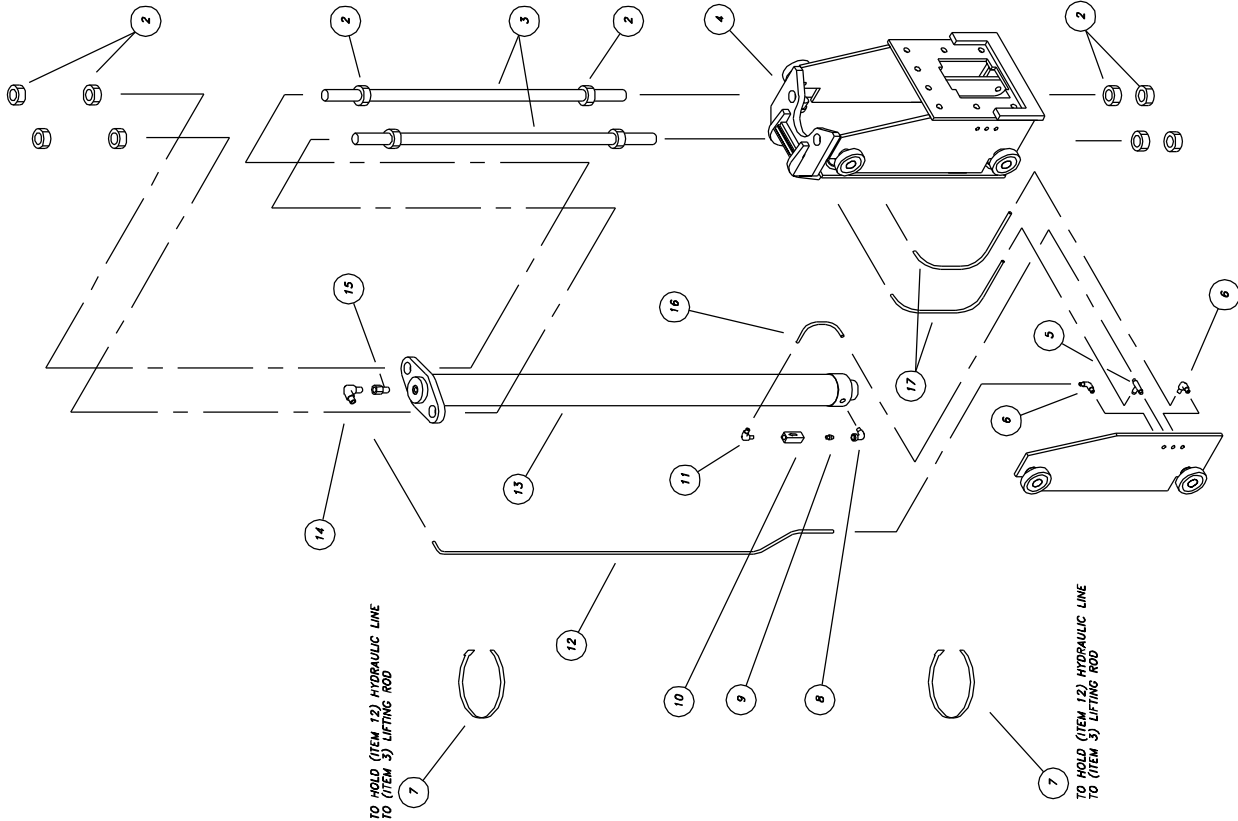
CARRIAGE BACK PLATE SHOWN OUT OF POSITION FOR CLARITY



CARRIAGE SIDE PLATE REMOVED FOR CLARITY

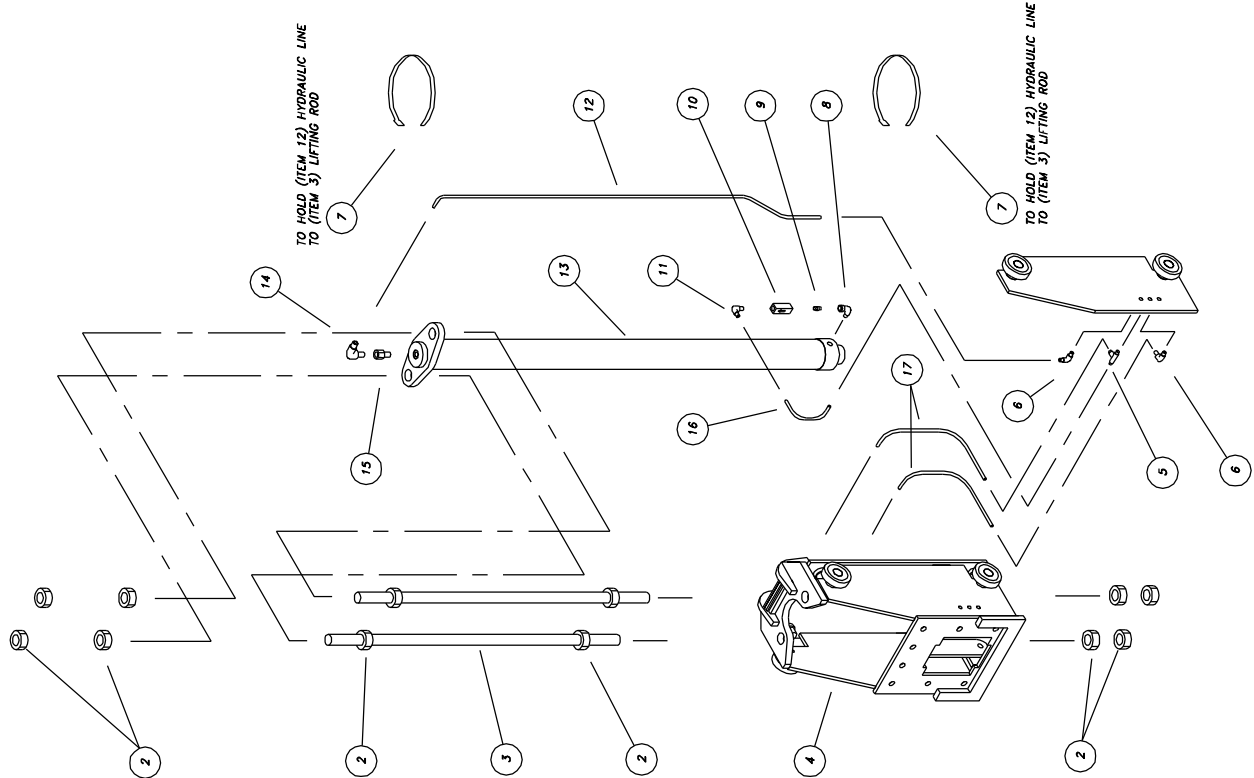
ITEM	PART NUMBER	DESCRIPTION	QTY
14	050-000-047	CARRIAGE ROLLER ASSEMBLY, 4" DIA	8
13	600-870-001	SNAP RING, #5100-137	8
12	600-640-027	BOLT, 3/4-16 NF x 4 1/2 LG	2
11	600-860-005	BEARING, CAM YOK	2
10	600-680-003	NUT, LOCK, 3/4-16 NF	2
9	601-470-004	GREASE FITTING, 1/4-28 NF	1
8	600-640-018	BOLT, 1/2-13 NC x 3" LG	1
7	028-000-127	WEDGE LOCKING PLATE	1
6	600-680-008	NUT, PLAIN, 1/2-13 NC	1
5	600-680-001	EYEBOLT, 1/2-13 NC x 2 11/16 LG	1
4	600-690-009	NUT, LOCK, 1/2-13 NC	2
3	050-010-029	LOCK CYLINDER ASSEMBLY	1
2	600-640-044	BOLT, 1/2-13 NC x 4" LG	1
1	050-000-002	CARRIAGE WELDMENT	1

CARRIAGE ASSEMBLY  
(050-000-009)



ITEM	PART NUMBER	DESCRIPTION	QTY
18	601-420-025	FITTING, UNION, #4 ORB TO #6 JIC	2
17	050-010-032	HOSE ASSEMBLY, 15"	2
16	050-010-033	HOSE ASSEMBLY, 7 1/2"	1
15	601-410-035	VELOCITY FUSE, 10 GPM	1
14	601-420-023	FITTING, 90° ELBOW, #8 ORB TO #6 JIC	1
13	MAN1410	LIFT CYLINDER ASSEMBLY	1
12	050-000-033	TUBING ASSEMBLY, 67 1/2"	1
11	601-420-007	FITTING, 90° ELBOW, 3/8 MALE PIPE TO #6 JIC	1
10	601-410-018	VALVE, CHECK	1
9	601-420-022	FITTING, UNION, 3/8 MALE PIPE TO 3/8 MALE PIPE	1
8	601-420-050	FITTING, 90° ELBOW, SWP, 3/8 FEM PIPE TO #6 ORB	1
7	601-600-021	PULL TIE, PLASTIC, LONG	2
6	601-420-015	FITTING, 90° ELBOW, BULKHEAD, #6 JIC TO #6 JIC	2
5	601-420-028	FITTING, TEE, BULKHEAD, #6 JIC BRANCH	1
4	MAN1502	CARRIAGE ASSEMBLY	1
3	050-000-145	LIFTING ROD	2
2	600-660-007	NUT, PLAIN, 1 1/2-12 NF	12
1			

CARRIAGE/CYLINDER ASSEMBLY (#1 & #4)

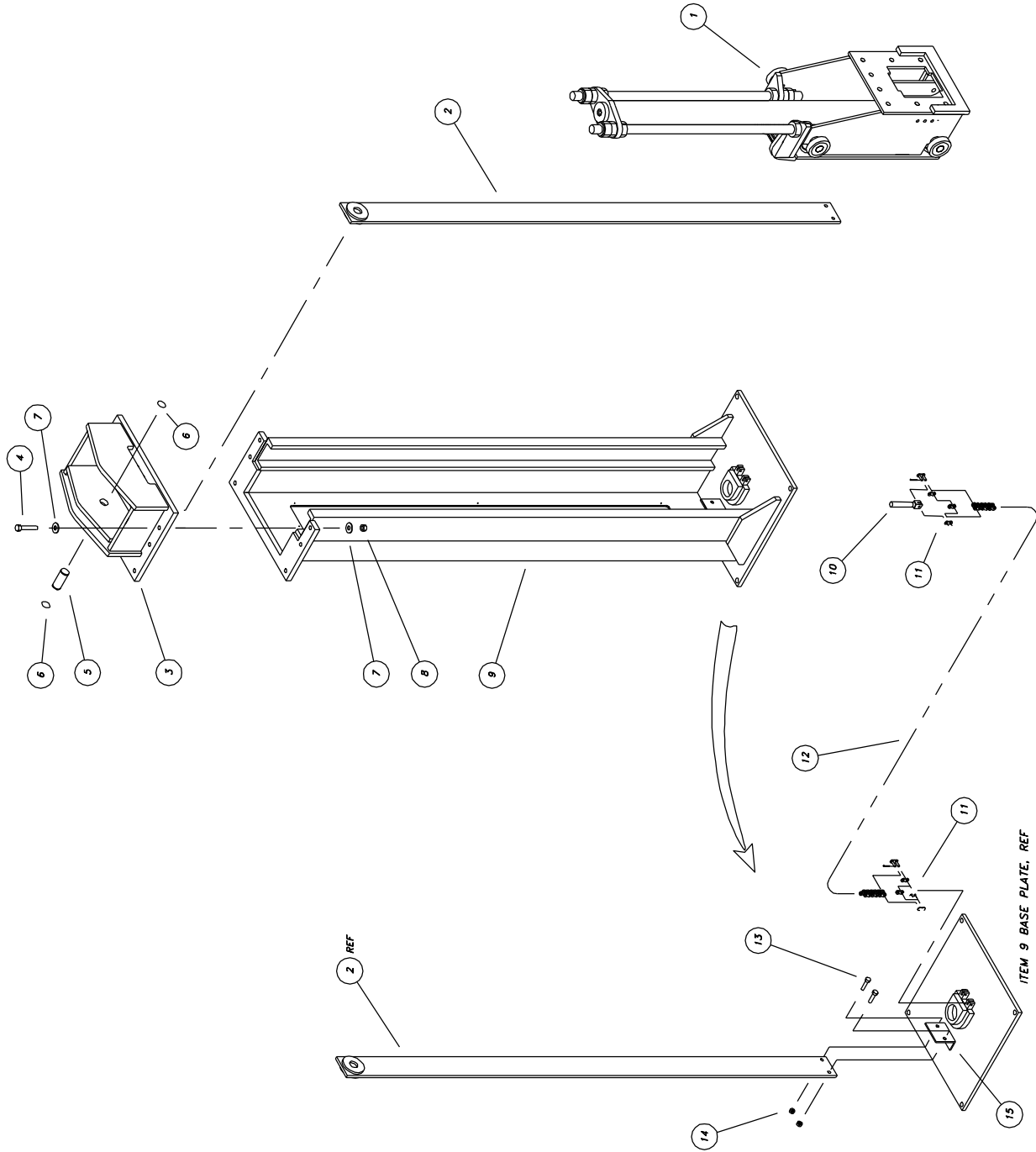


ITEM	PART NUMBER	DESCRIPTION	QTY
18	601-420-025	FITTING, UNION, #4 ORB TO #6 JIC	2
17	050-010-032	HOSE ASSEMBLY, 15"	2
16	050-010-033	HOSE ASSEMBLY, 7 1/2"	1
15	601-410-035	VELOCITY FUSE, 10 GPM	1
14	601-420-023	FITTING, 90° ELBOW, #8 ORB TO #6 JIC	1
13	MAN1410	LIFT CYLINDER ASSEMBLY	1
12	050-000-033	TUBING ASSEMBLY, 67 1/2"	1
11	601-420-007	FITTING, 90° ELBOW, 3/8 MALE PIPE TO #6 JIC	1
10	601-410-016	VALVE, CHECK	1
9	601-420-022	FITTING, UNION, 3/8 MALE PIPE TO 3/8 MALE PIPE	1
8	601-420-050	FITTING, 90° ELBOW, SWIV. 3/8 FEM PIPE TO #6 ORB	1
7	601-600-021	PULL TIE, PLASTIC, LONG	2
6	601-420-015	FITTING, 90° ELBOW, BULKHEAD, #6 JIC TO #6 JIC	2
5	601-420-026	FITTING, TEE, BULKHEAD, #6 JIC BRANCH	1
4	MAN1302	CARRIAGE ASSEMBLY	1
3	050-000-145	LIFTING ROD	2
2	600-680-007	NUT, PLAIN, 1 1/2-12 NF	12
1			

CARRIAGE/CYLINDER ASSEMBLY (#2 & #3)



MAN1405

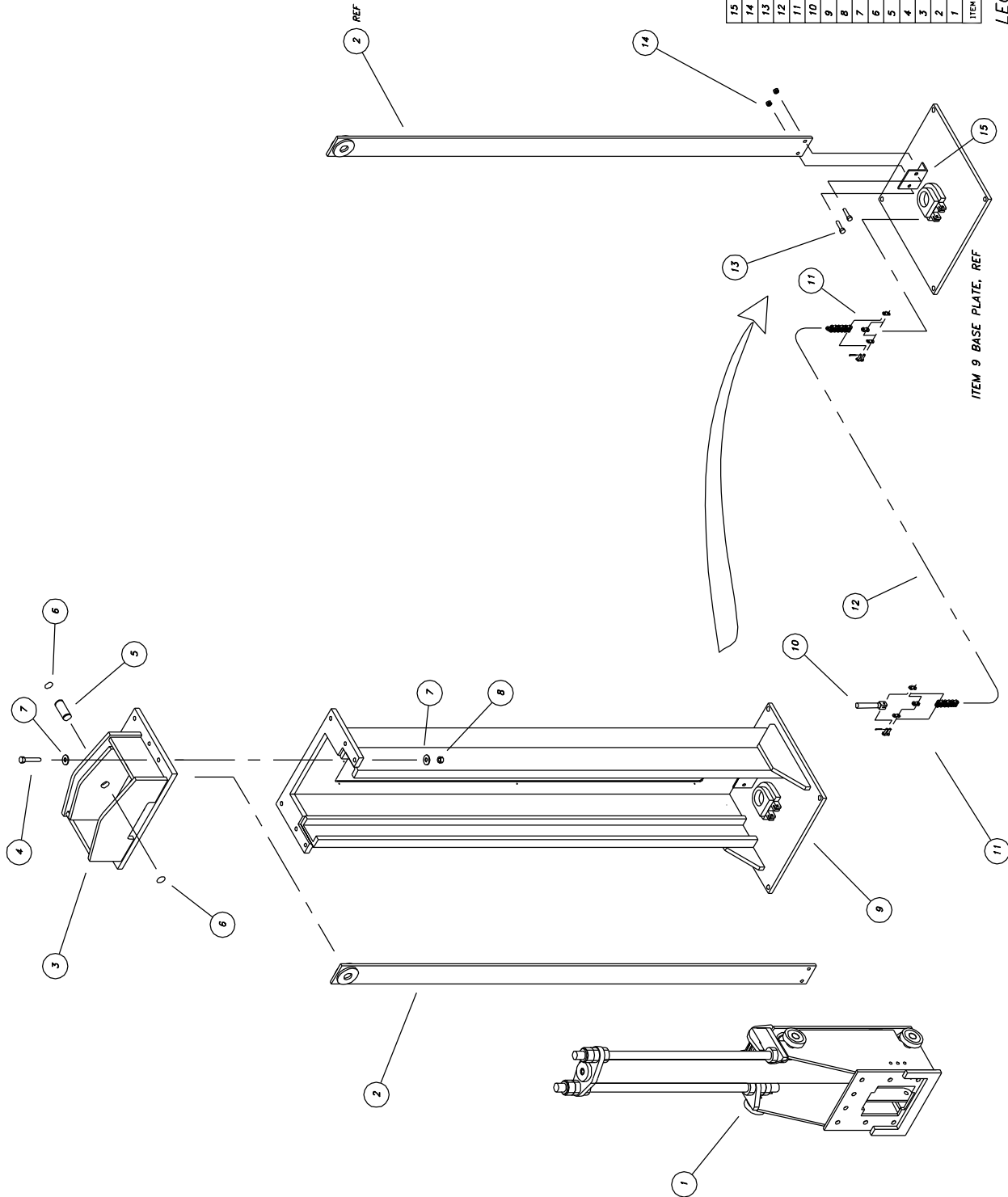


ITEM	PART NUMBER	DESCRIPTION	QTY
15	050-000-198	BREAKER BAR SUPPORT BRACKET	REF
14	600-690-009	NUT, LOCK, 1/2-13 NC	2
13	600-640-030	BOLT, 1/2-13 NC x 2"	2
12	600-630-005	CHAIN, BL646, 300 PITCHES	1
11	600-630-028	MASTER CHAIN LINK ASSEMBLY	2
10	025-000-107	CHAIN CONNECTOR	1
9	050-000-003	LEG WELDMENT	1
8	600-690-012	NUT, LOCK, 5/8-11 NC	6
7	600-710-007	WASHER, FLAT, 5/8	12
6	600-670-004	SNAP RING, #5100-150	2
5	050-000-134	PIN, 1 1/2" DIA	1
4	600-640-049	BOLT, 5/8-11 NC x 3 1/2"	6
3	050-000-007	TOP WELDMENT	1
2	050-000-008	BREAKER BAR WELDMENT	1
1	MAN1403	CARRIAGE/CYLINDER ASSEMBLY (LEG #1 & LEG #4)	1

LEG ASSEMBLY (LEG #1 & LEG #4)  
(075-010-011)

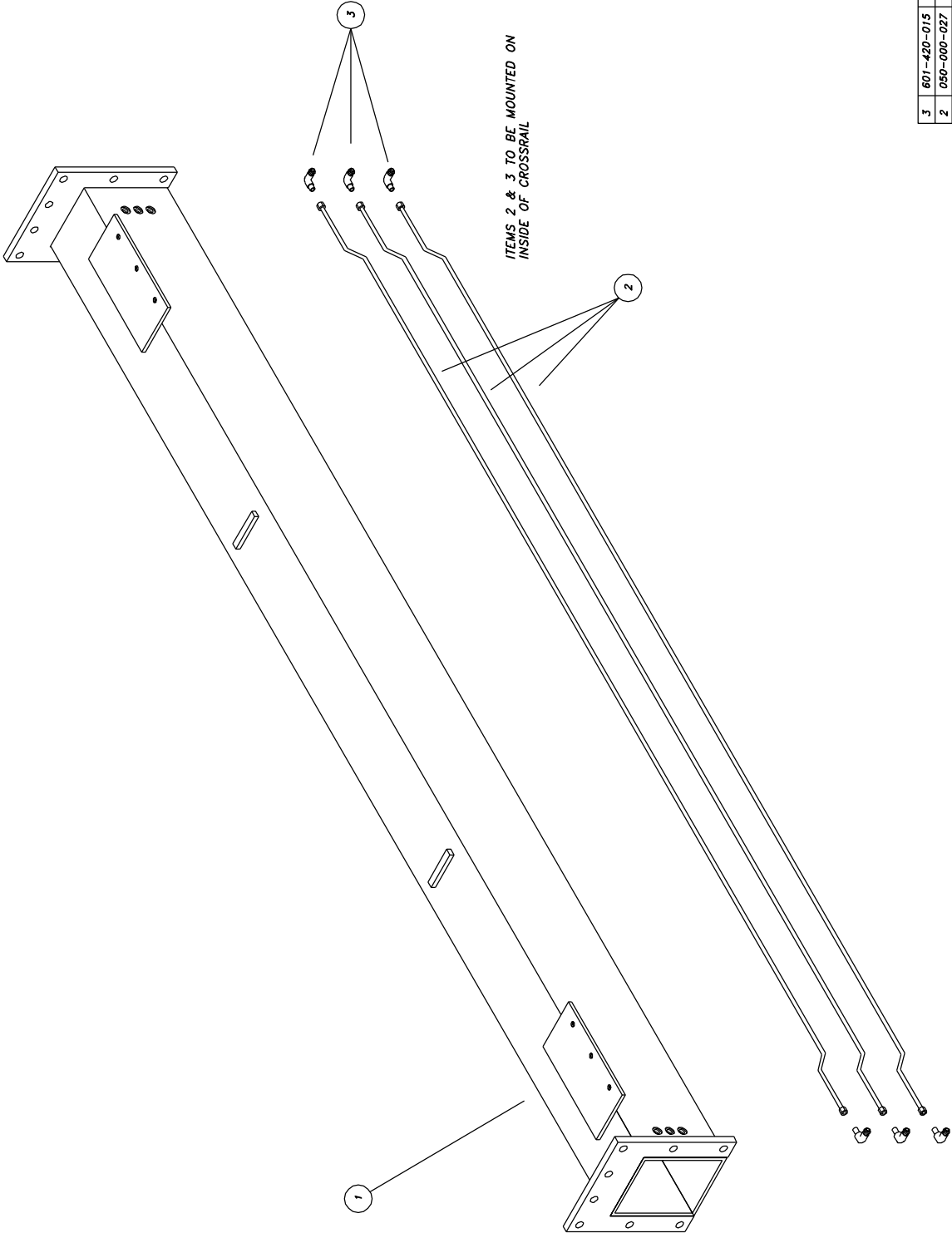
FILE: MAN1405  
DATE: 8/96

MAN1406



ITEM	PART NUMBER	DESCRIPTION	QTY
15	050-000-198	BREAKER BAR SUPPORT BRACKET	REF
14	600-690-009	NUT, LOCK, 1/2-13 NC	2
13	600-640-030	BOLT, 1/2-13 NC x 2"	2
12	600-830-003	CHAIN, BL646, 300 PITCHES	1
11	600-830-028	MASTER CHAIN LINK ASSEMBLY	2
10	025-000-107	CHAIN CONNECTOR	1
9	050-000-003	LEG WELDMENT	1
8	600-690-012	NUT, LOCK, 5/8-11 NC	6
7	600-710-007	WASHER, FLAT, 5/8	12
6	600-870-004	SNAP RING, #5100-150	2
5	050-000-134	PIN, 1 1/2" DIA	1
4	600-640-049	BOLT, 5/8-11 NC x 3 1/2"	6
3	050-000-007	TOP WELDMENT	1
2	050-000-008	BREAKER BAR WELDMENT	1
1	MAN1404	CARRIAGE/CYLINDER ASSEMBLY (LEG #2 & LEG #3)	1

LEG ASSEMBLY (LEG #2 & LEG #3)  
(075-010-012)



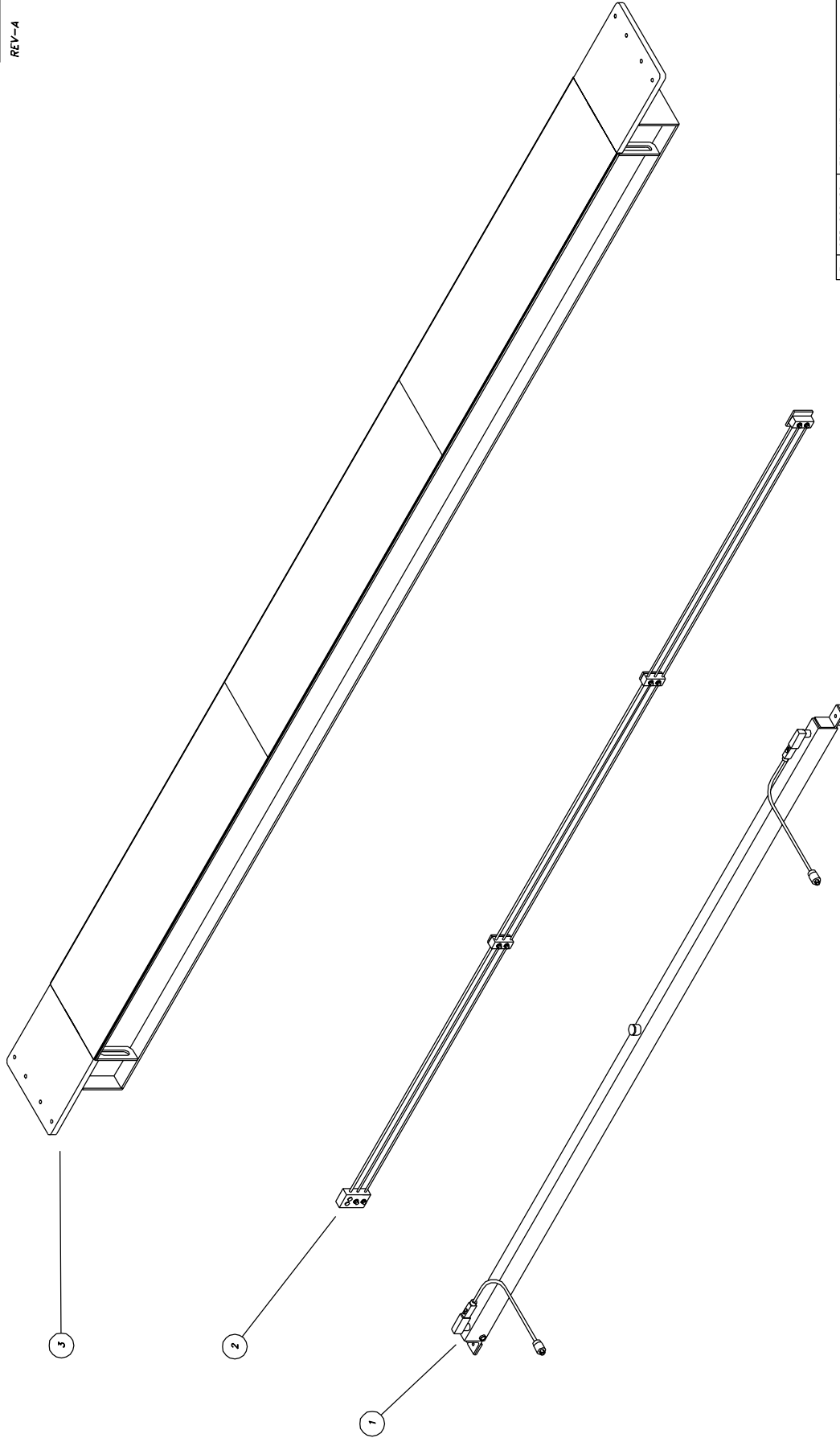
(2) CROSSRAILS PER LIFT

ITEM	PART NUMBER	DESCRIPTION	QTY
3	601-420-015	FITTING, 90° ELBOW, BULKHEAD	6
2	050-000-027	TUBING ASSEMBLY, 126"	3
1	050-000-006	CROSSRAIL WELDMENT	1

CROSSRAIL ASSEMBLY  
(050-010-008)

MAN1408

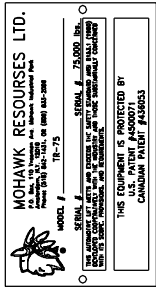
REV-A 10/99



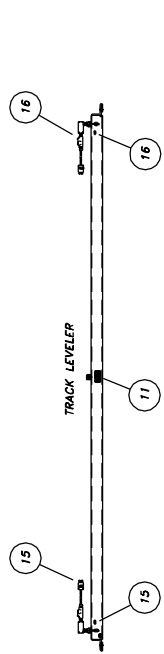
ITEM	PART NUMBER	DESCRIPTION	QTY
3	075-000-001	TRACK WELDMENT	1
2	MAN1319	TRACK MANFOLD ASSEMBLY	1
1	MAN1318A	TRACK LEVELER ASSEMBLY	1

MAINSIDE TRACK ASSEMBLY  
(075-010-005)

FILE: MAN1408  
DATE: 8/96

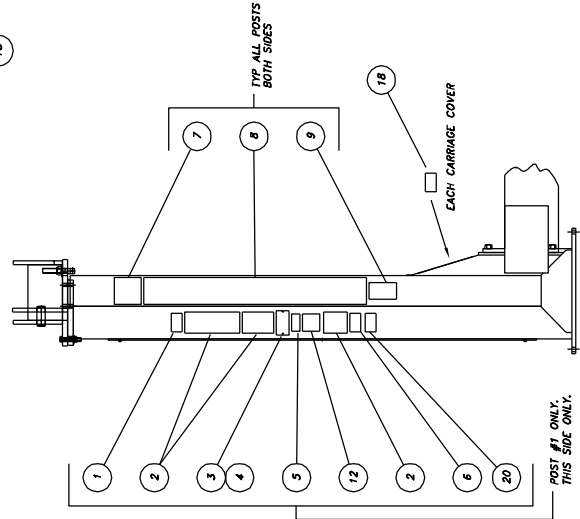


(MOHAWK SERIAL TAG)

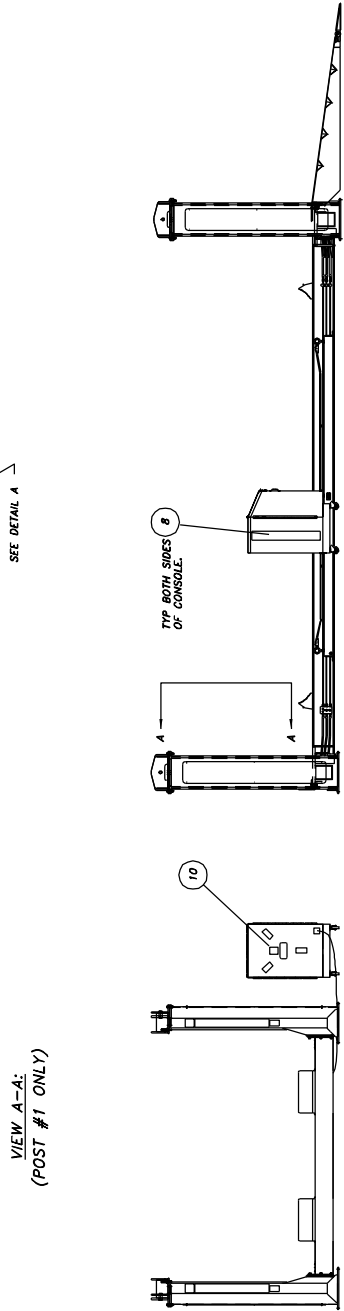
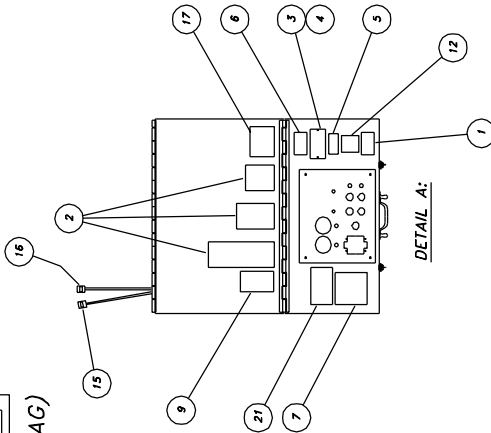


DECALS TO BE PLACED ON FRONT OF LEVELER

1 OF EACH TO BE PLACED ON EACH CYLINDER (TYP 4 PLCS) (NOT SHOWN)



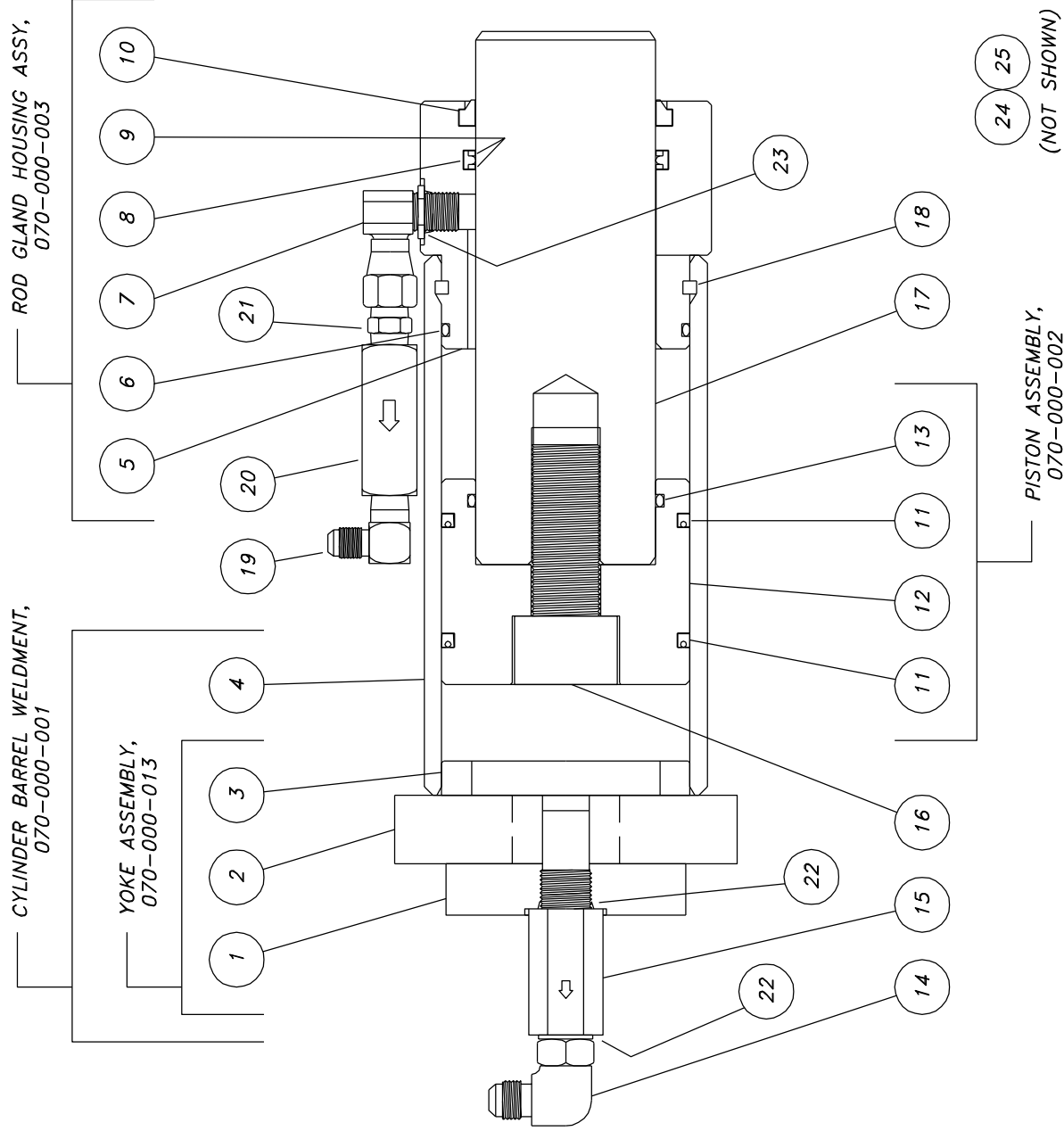
VIEW A-A:  
(POST #1 ONLY)



21	601-800-136	DECAL, "CENTER LOAD ON LIFT"	3" x 5"	1
20	601-800-126	DECAL, TOTAL AGGREGATE JACKING CAPACITY		1
19	601-800-124	DECAL, CAUTION...REPLACE ONLY WITH TYPE...FUSE		REF
18	601-800-125	DECAL, CAUTION...COVERS & GUARDS, 2" x 3 1/2"	4	
17	601-800-108	DECAL, WARNING...RISK OF EXPLOSION, 4' x 6 1/2"	1	
16	601-800-071	DECAL, "AFT", 1/2" x 2"	3	
15	601-800-072	DECAL, "FORE", 1/2" x 2"	3	
14	601-800-022	PLATE, PATENT, 7/8" x 2 3/8"	4	
13	601-800-021	PLATE, CAUTION, "NO USER SERVICEABLE PARTS"	4	
12	601-800-056	DECAL, "ALI/ETL CERTIFIED", 3" x 3"	2	
11	601-800-062	DECAL, "ANTIFREEZE ONLY", 2" x 4"	(1) REF	
10	601-800-063	DECAL, "TR SERIES CONSOLE ELECT RATINGS", 4"x6"	1	
9	601-800-030	DECAL, "MADE IN AMERICA", 3 1/8" x 5 3/16"	9	
8	601-800-061	DECAL, "MOHAWK", 6 3/8" x 4 1/4"	10	
7	601-800-050	DECAL, "MAXIMUM CAPACITY 75,000 LBS", 5" x 5"	9	
6	601-800-034	DECAL, WARNING, 2" x 3 1/2"	2	
5	601-800-037	PLATE, ALI, 1 1/2" x 3 1/4"	2	
4	600-820-001	SCREW DRIVE, #4 x 1/4, ROUND HEAD, TYPE II	4	
3	601-800-026	PLATE, SERIAL, SPEC. PATENT, 2 7/16" x 4 9/16"	2	
2	601-800-053	DECAL SET, CAUTION, SAFETY, 4 POSTS	2	
1	601-800-035	DECAL, CAUTION, 2" x 3 1/2"	2	
ITEM	PART NUMBER	DESCRIPTION		QTY

TR-75 TAG & DECAL LOCATION

MAN1410



ITEM	PART NUMBER	DESCRIPTION	QTY
1	050-000-144	BACK PLATE	1
2	050-000-139	YOKE	1
3	070-000-112	YOKE DONUT	1
4	070-000-102	BARREL	1
5	070-000-103	ROD GLAND	1
6	601-030-021	O-RING	1
7	601-420-050	FITTING, 90° SWIVEL	1
8	601-000-003	ROD T-SEAL	1
9	601-060-007	BACK-UP RING	2
10	601-020-003	ROD WIPER	1
11	601-050-004	POLY-PAK	2
12	070-000-101	PISTON	1
13	601-030-014	O-RING	1
14	601-420-023	FITTING, 90° ELBOW	1
15	601-410-035	VELOCITY FUSE -10	1
16	600-650-001	BOLT, SOCKET HEAD	1
17	050-000-136	ROD	1
18	070-000-104	SPIN KEY	1
19	601-420-007	FITTING, 90° ELBOW	1
20	601-410-016	VALVE, CHECK	1
21	601-420-022	FITTING, UNION	1
22	601-030-018	O-RING	1
23	601-030-017	O-RING	1
24	601-800-021	PLATE, CAUTION	1
	"NO USER SERVICEABLE PARTS"		
25	601-800-022	PLATE, PATENT	1

TR-75  
CYLINDER ASSEMBLY  
070-000-004

REV.

△

DESCRIPTION

DATE

BY

APP'D.

1

2

3

4

5

5

6

7

8

(NOT SHOWN)

FOR TR-70 & TR-75  
CYLINDER ASSEMBLY  
070-000-004

NOTES:  
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-70TI CODE 5.3 FLUX CORE WIRE ONLY.

TOLERANCES:  
ANGULAR ± 1°  
FRACTIONAL ± .000  
DECIMAL ± .000  
XXX ± .000

FILE NAME  
J00098

NOTICE OF CONFIDENTIAL INFORMATION

INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. WHERE DRAWING IS FURNISHED TO OTHERS 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.

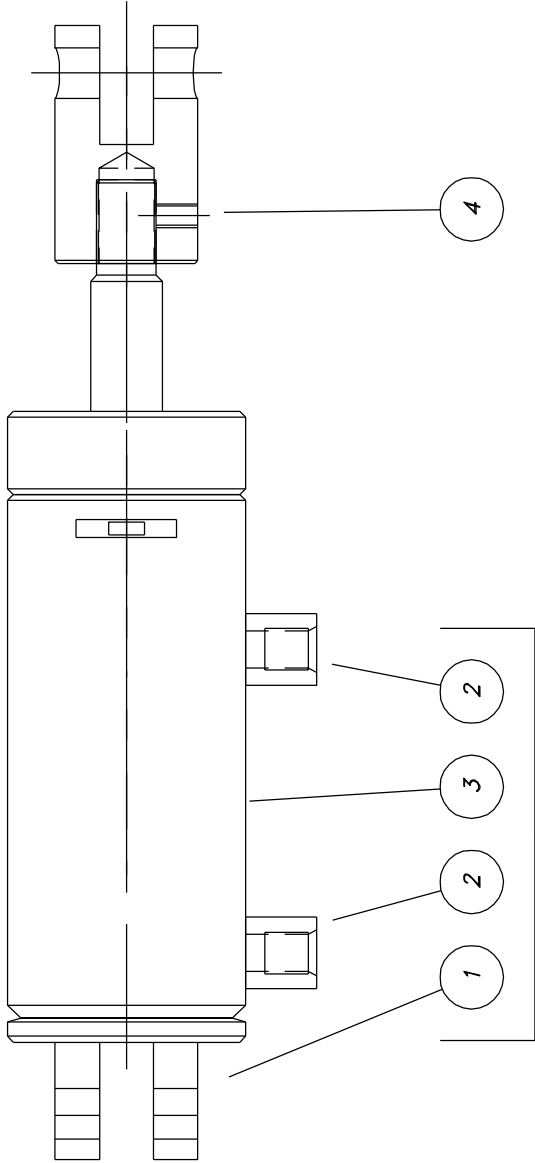
C-SIZE

MOHAWK RESOURCES LTD.

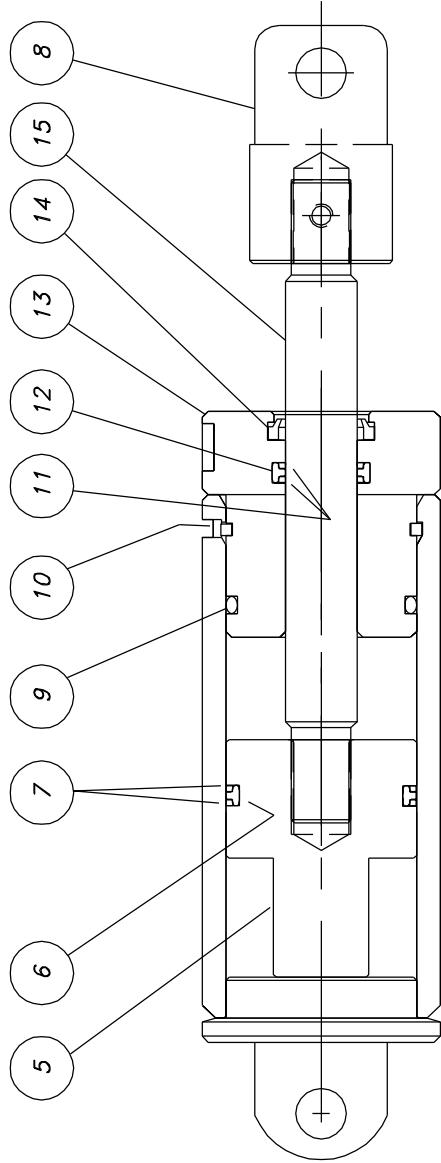
ITEM	PART NUMBER	SCALE N/A	DRAWN R.V.	CHECKED dsk	APPROVED	TITLE SEAL KIT, TR-70 & TR-75	FROM	DRAWING NUMBER 070-000-098	LB.
8	MAN1410								
7	070-000-104								
6	601-030-014								
5	601-050-004								
4	601-020-003								
3	601-060-007								
2	601-000-003								
1	601-030-021								

DESCRIPTION

QTY



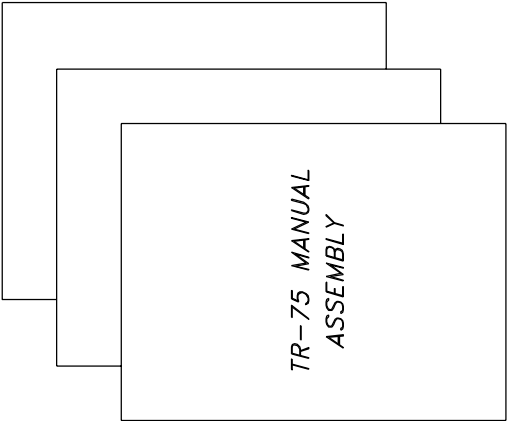
CYLINDER WELDMENT, 050-010-030



ITEM	PART NUMBER	DESCRIPTION	QTY
1	050-010-105	END CAP	1
2	050-000-146	HALF COUPLING	2
3	050-010-106	BARREL	1
4	600-630-003	SET SCREW	1
5	050-010-104	PISTON	1
6	601-010-012	PISTON T-SEAL	1
7	601-060-017	BACK-UP RING	2
8	050-000-123	CLEVIS	1
9	601-030-025	O-RING	1
10	007-001-172	SPIN KEY	1
11	601-060-018	BACK-UP RING	2
12	601-000-011	ROD T-SEAL	1
13	050-010-102	ROD GLAND	1
14	601-020-007	ROD WIPER	1
15	050-010-103	ROD	1

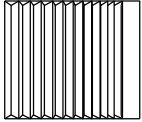
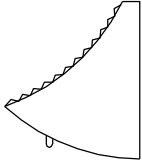
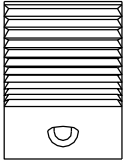
TR-35, 50 & 75  
LOCK CYLINDER ASSEMBLY  
050-010-029



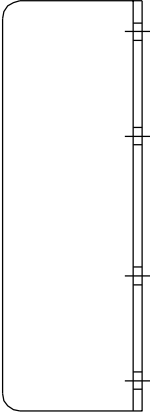
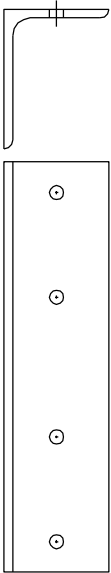


TR-75 MANUAL  
ASSEMBLY

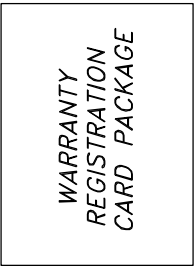
ITEM 3



ITEM 5



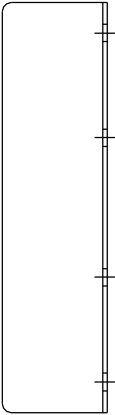
ITEM 6



WARRANTY  
REGISTRATION  
CARD PACKAGE

ITEM 7

(SECURED TO OUTSIDE OF ITEM 1 CARTON)



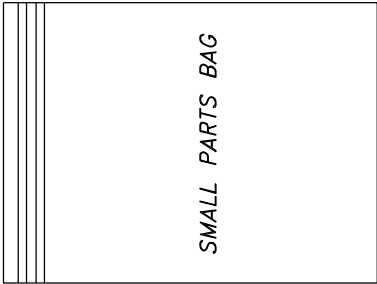
ITEM 2



ITEM 4

ITEM	PART NUMBER	DESCRIPTION	QTY
9			
8			
7	601-800-070	WARRANTY REGISTRATION CARD PACKAGE	1
6	050-000-157	TRACK STOP, TOP	2
5	600-930-001	RUBBER WHEEL CHOCK	4
4	075-010-008	HOSE ASSEMBLY	6
3	075-010-016	TR-75 MANUAL ASSEMBLY	1
2	033-000-116	TRACK STOP, BOTTOM	2
1	601-600-023	BOX, CORRUGATED	1

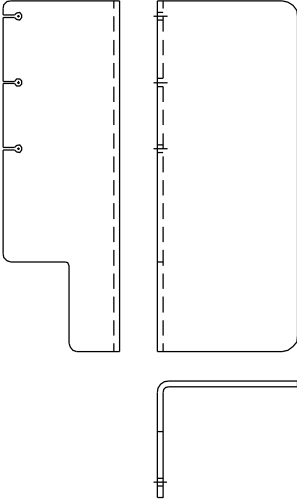
PARTS BOX #1



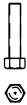
ITEM 11



ITEM 5



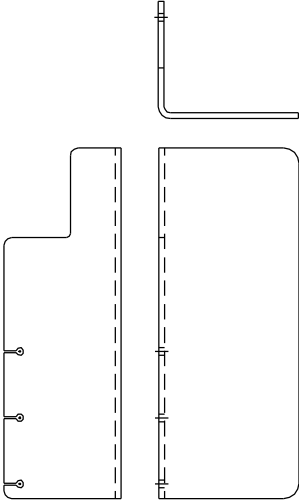
ITEM 2



ITEM 6



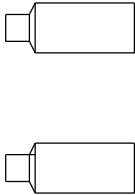
ITEM 7



ITEM 3



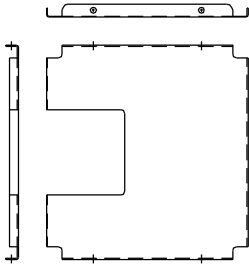
ITEM 8



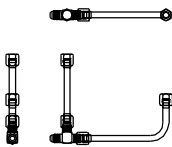
ITEM 9



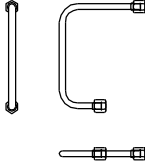
ITEM 10



ITEM 4



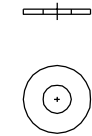
ITEM 12



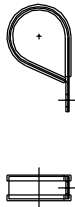
ITEM 13

13	050-000-032	TUBING ASSEMBLY, 13 1/8"	6
12	035-001-006	TUBING ASSEMBLY CLUSTER W/TIE	6
11	050-010-016	SMALL PARTS BAG	1
10	601-630-002	SPRAY PAINT, TOUCH-UP, YELLOW	6
9	601-630-001	SPRAY PAINT, TOUCH-UP, RED	6
8	600-670-008	ANCHOR BOLT, WEJ-IT, 3/4 x 5 1/2"	16
7	600-640-024	BOLT, 3/4-16 NF x 2 1/2"	32
6	600-640-028	BOLT, 3/4-16 NF x 3 1/2"	16
5	600-680-003	NUT, LOCK, 3/4-16 NF	48
4	050-000-160	CARRIAGE COVER PLATE	4
3	050-010-116	CROSSRAIL LINE COVER (RIGHT)	2
2	050-010-115	CROSSRAIL LINE COVER (LEFT)	2
1	601-600-023	BOX, CORRUGATED	1
ITEM	PART NUMBER	DESCRIPTION	QTY

PARTS BOX #2



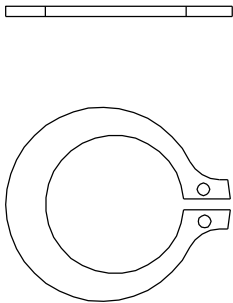
ITEM 6



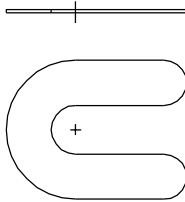
ITEM 2



ITEM 7



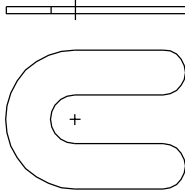
ITEM 3



ITEM 9



ITEM 10



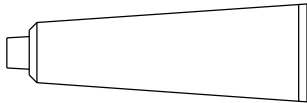
ITEM 11



ITEM 12



ITEM 13



ITEM 8



ITEM 4



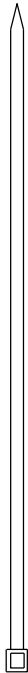
ITEM 14



ITEM 15



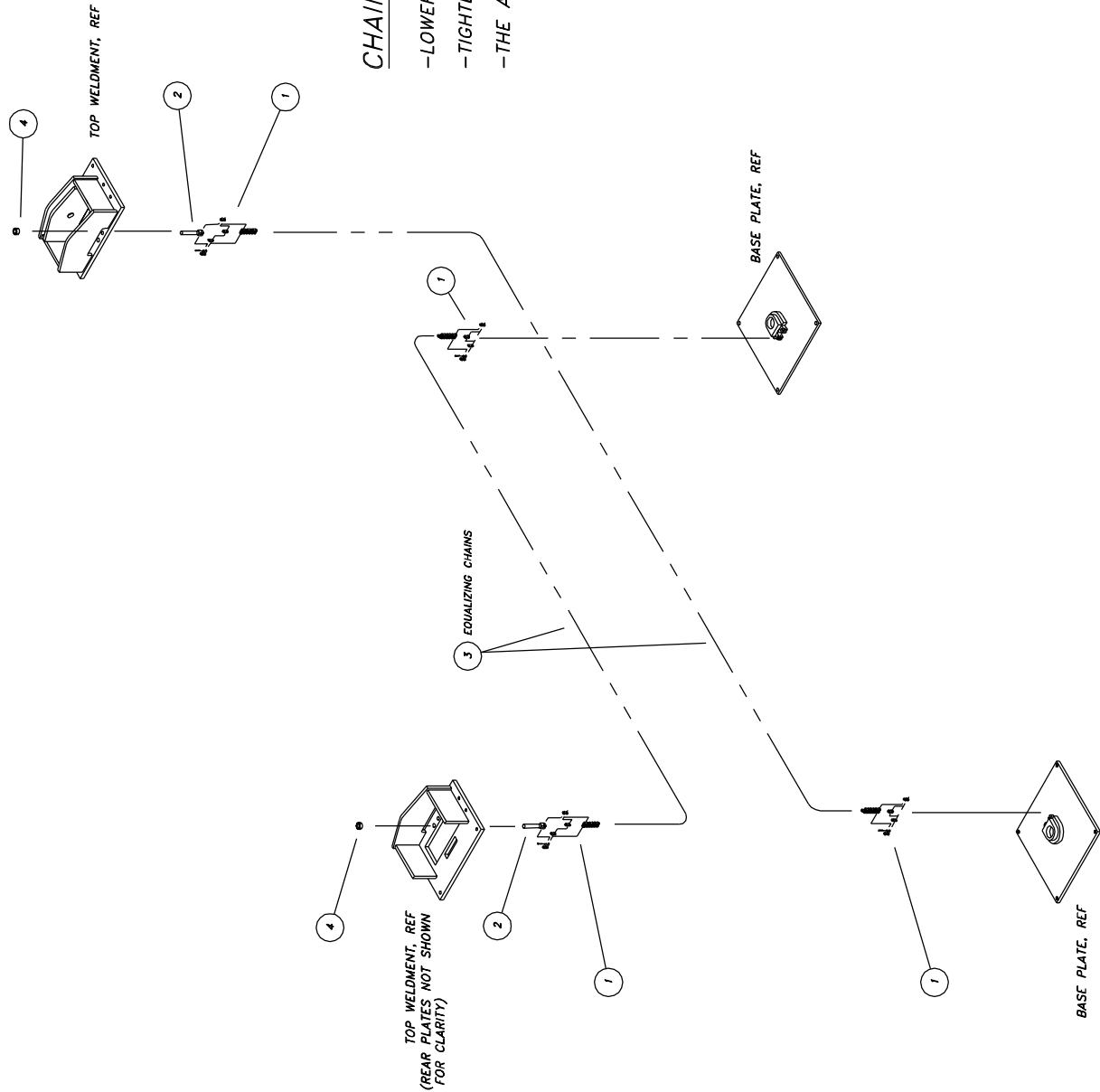
ITEM 5



ITEM 16

16	601-600-050	PLASTIC PULL TIE, BLACK, 8" LG	12
15	600-720-011	WASHER, LOCK, 3/8	12
14	600-680-012	NUT, PLAIN, 3/8-16 NC	12
13	600-710-009	WASHER, FLAT, 3/8	24
12	600-640-069	BOLT, 3/8-16 NC x 1 3/4 LG	12
11	600-740-003	SHIM, BLACK, 1/4", PLASTIC	10
10	600-740-002	SHIM, RED, 1/8", PLASTIC	10
9	600-740-001	SHIM, BLUE, 1/16", PLASTIC	10
8	601-610-002	THREAD SEALING COMPOUND	1
7	600-640-012	BOLT, 5/16-18 NC x 3/4"	20
6	600-710-012	WASHER, FLAT, 7/8"	4
5	600-690-010	NUT, LOCK, 7/8-14 NF	4
4	600-870-005	SNAP RING, #5100-75	4
3	600-870-004	SNAP RING, #5100-150	4
2	601-140-022	HOSE SUPPORT CLAMP	3
1	601-600-022	PLASTIC ZIP-LOCK BAG	1
ITEM	PART NUMBER	DESCRIPTION	QTY

SMALL PARTS BAG



CHAIN ADJUSTMENT

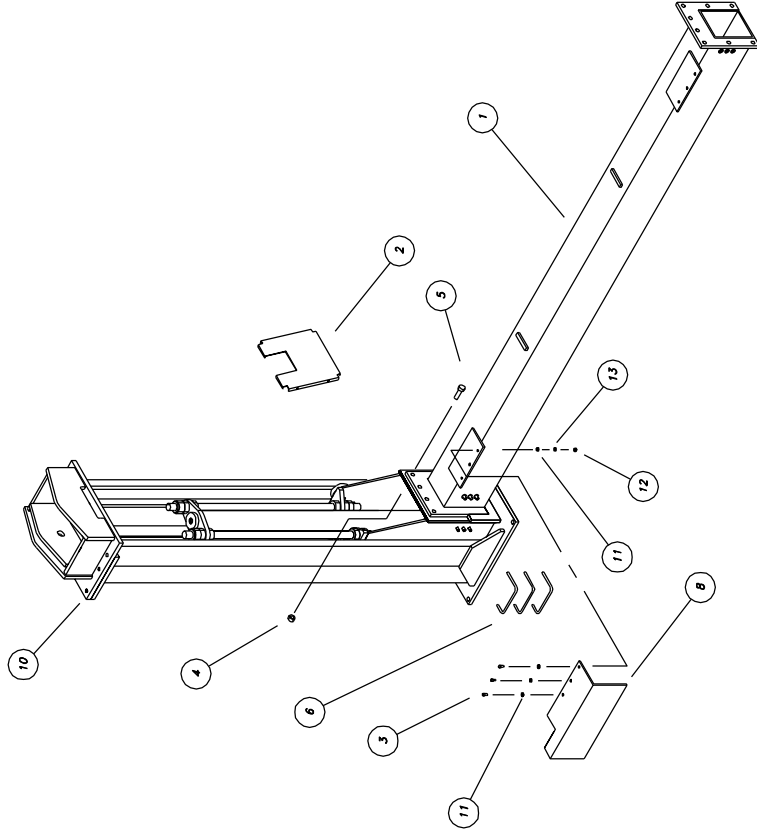
- LOWER THE UNIT COMPLETELY
- TIGHTEN THE CHAIN CONNECTOR (ITEM 2) AT THE TOP OF THE POST
- THE ADJUSTMENT IS COMPLETE WHEN BOTH EQUALIZING CHAINS ARE TAUT

QUANTITY SHOWN IS THE SAME FOR 'FORE & 'AFT' LEG ASSEMBLIES

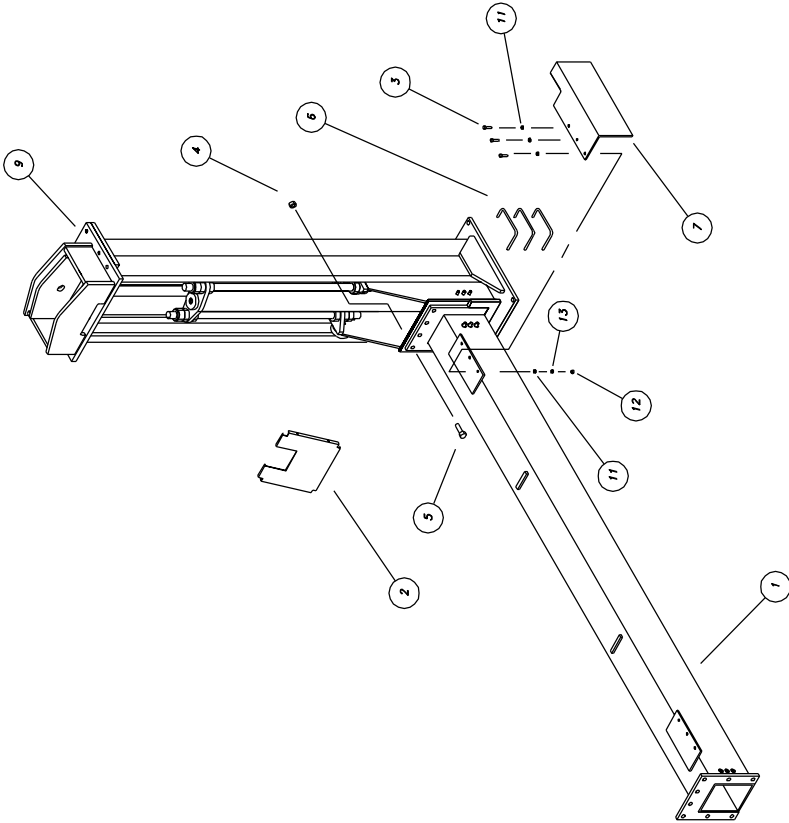
4	600-680-010	NUT, LOCK, 7/8-14 NF	2
3	600-830-005	CHAIN, BL646, 225" (300 PITCHES)	2
2	025-000-107	CHAIN CONNECTOR	2
1	600-830-026	MASTER CHAIN LINK ASSEMBLY	4
ITEM	PART NUMBER	DESCRIPTION	QTY

CHAIN ROUTING

LEG #4



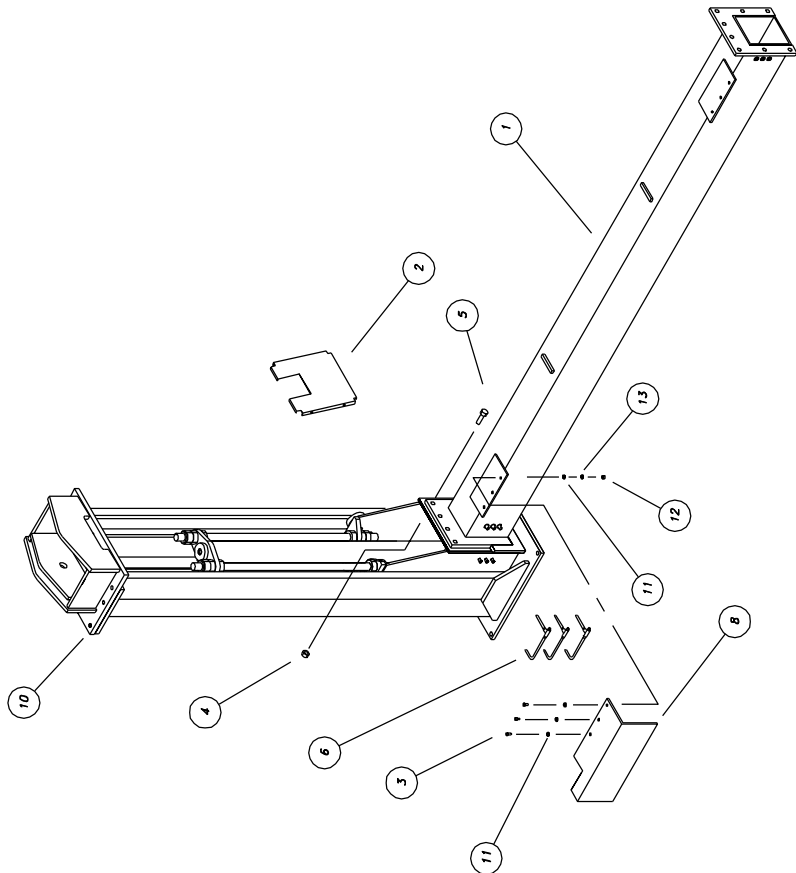
LEG #2



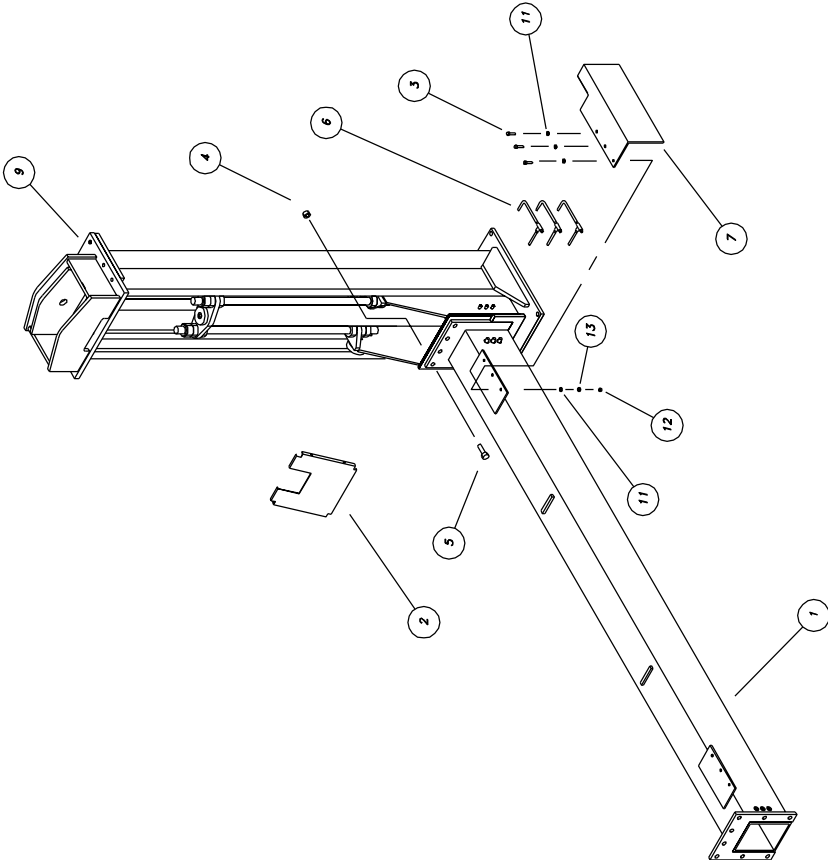
QUANTITIES GIVEN IN BILL OF MATERIAL  
REPRESENT QUANTITIES FOR EACH LEG

ITEM	PART NUMBER	DESCRIPTION	QTY
13	600-720-011	WASHER, LOCK, 3/8	3
12	600-680-012	NUT, PLAIN, 3/8-16 NC	3
11	600-710-009	WASHER, FLAT, 3/8	6
10	MAINT405	LEG ASSEMBLY (#1 & #4)	1
9	MAINT406	LEG ASSEMBLY (#2 & #3)	1
8	050-010-115	CROSSRAIL LINE COVER (LEFT)	1
7	050-010-116	CROSSRAIL LINE COVER (RIGHT)	1
6	050-000-032	TUBING ASSEMBLY, 13 1/8"	3
5	600-640-024	BOLT, 3/4-16 NF x 2 1/2"	8
4	600-680-003	NUT, LOCK, 3/4-16 NF	8
3	600-640-012	BOLT, 5/16-18 NC x 3/4"	7
2	050-000-160	CARRIAGE COVER	1
1	MAINT307	CROSSRAIL ASSEMBLY	REF

LEG #1



LEG #3

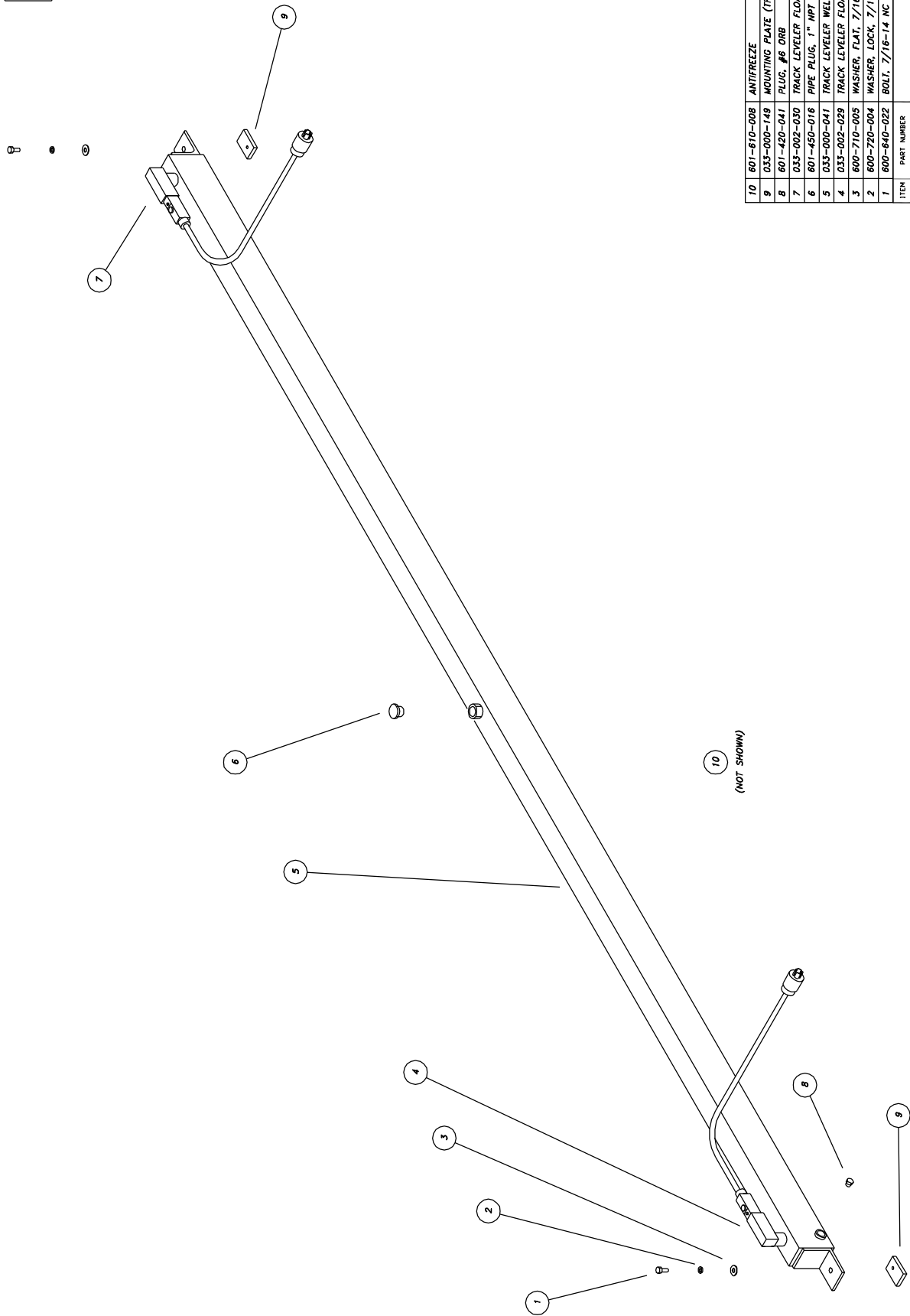


QUANTITIES GIVEN IN BILL OF MATERIAL  
REPRESENT QUANTITIES FOR EACH LEG

ITEM	PART NUMBER	DESCRIPTION	QTY
13	600-720-011	WASHER, LOCK, 3/8	3
12	600-680-012	NUT, PLAIN, 3/8-16 NC	3
11	600-710-009	WASHER, FLAT, 3/8	6
10	MAN1405	LEG ASSEMBLY (#1 & #4)	1
9	MAN1406	LEG ASSEMBLY (#2 & #3)	1
8	050-000-044	CROSSRAIL LINE COVER	1
7	050-000-043	CROSSRAIL LINE COVER	1
6	035-001-006	TUBING ASSEMBLY CLUSTER W/TEE	3
5	600-640-024	BOLT, 3/4-16 NF x 2 1/2"	8
4	600-690-003	NUT, LOCK, 3/4-16 NF	8
3	600-640-012	BOLT, 5/16-18 NC x 3/4"	7
2	050-000-180	CARRIAGE COVER	1
1	MAN1307	CROSSRAIL ASSEMBLY	REF

CROSSRAIL & CROSSRAIL/CARRIAGE COVER ASSEMBLY

MAN1318A

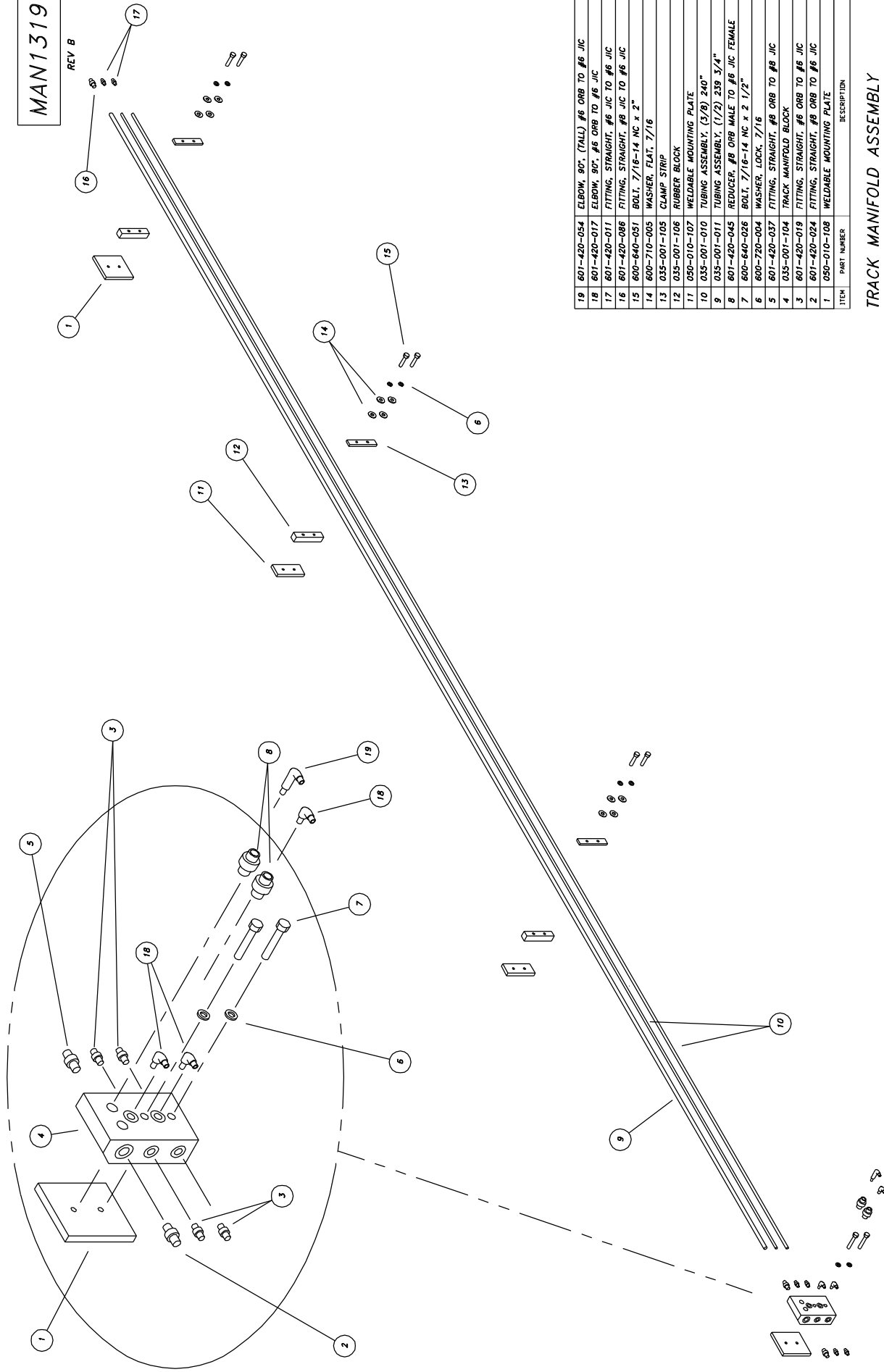


ITEM	PART NUMBER	DESCRIPTION	QTY
10	801-810-008	ANTIFREEZE	(GALLONS) 2.00
9	033-000-149	MOUNTING PLATE (TRACK LEVELER)	2
8	601-420-041	PLUG, #8 ORB	1
7	033-002-030	TRACK LEVELER FLOAT SWITCH ASSEMBLY (AFT)	1
6	801-450-016	PIPE PLUG, 1" NPT	1
5	033-000-041	TRACK LEVELER WELDMENT	1
4	033-002-029	TRACK LEVELER FLOAT SWITCH ASSEMBLY (FORE)	1
3	600-710-005	WASHER, FLAT, 7/16	2
2	600-720-004	WASHER, LOCK, 7/16	2
1	600-840-022	BOLT, 7/16-14 NC x 1"	2

TRACK LEVELER ASSEMBLY  
(033-002-031)

MAN1319

REV B 4/99

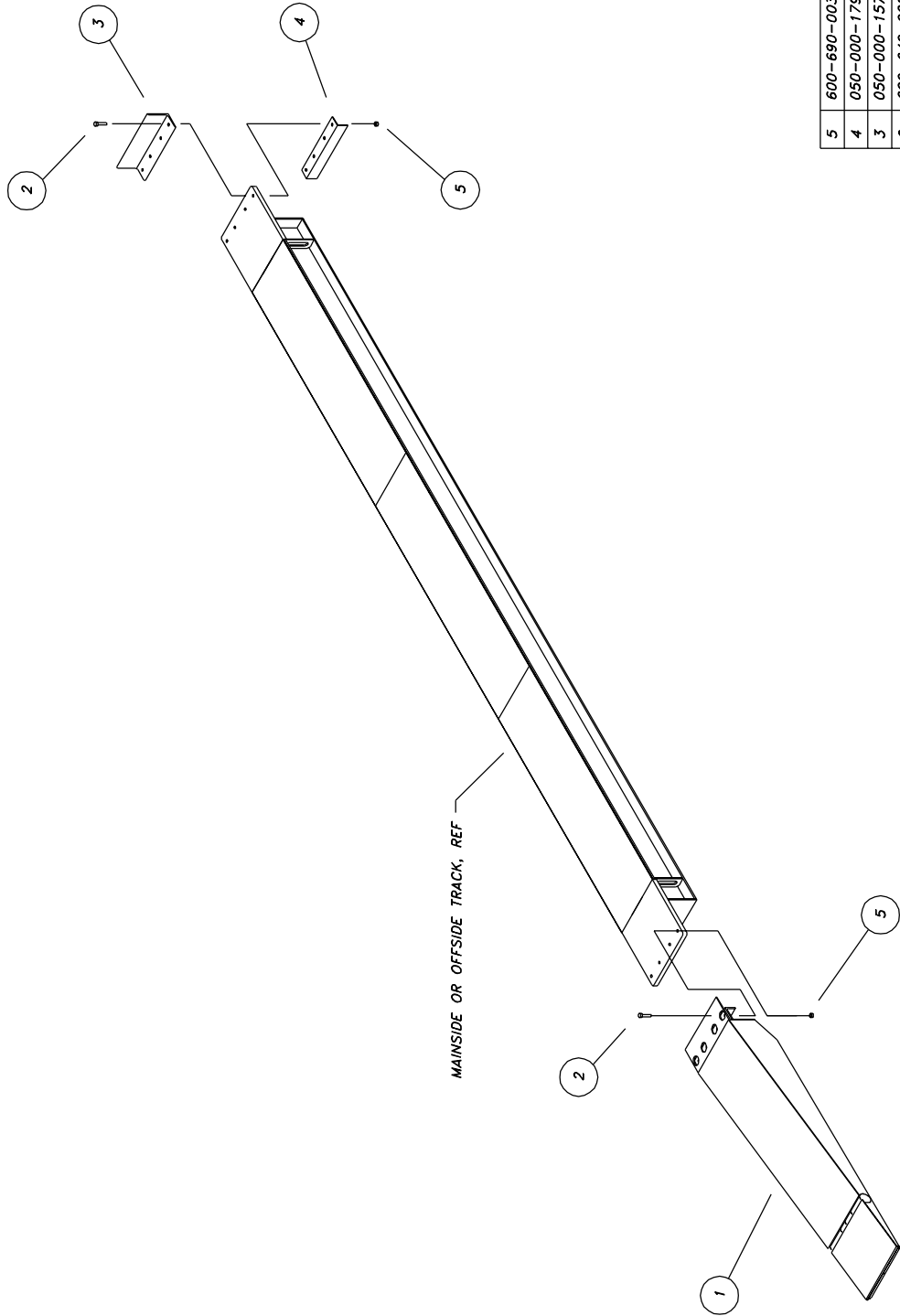


ITEM	PART NUMBER	DESCRIPTION	QTY
19	601-420-054	ELBOW, 90°, (TALL) #6 ORB TO #6 JIC	1
18	601-420-017	ELBOW, 90°, #6 ORB TO #6 JIC	3
17	601-420-011	FITTING, STRAIGHT, #6 JIC TO #6 JIC	2
16	601-420-086	FITTING, STRAIGHT, #8 JIC TO #6 JIC	1
15	600-640-051	BOLT, 7/16-14 NC x 2"	6
14	600-710-005	WASHER, FLAT, 7/16	12
13	035-001-105	CLAMP STRIP	3
12	035-001-106	RUBBER BLOCK	3
11	035-010-107	WELDABLE MOUNTING PLATE	2
10	035-010-107	WELDABLE MOUNTING PLATE	2
9	035-001-011	TUBING ASSEMBLY, (1/2) 239 3/4"	1
8	601-420-045	REDUCER, #8 ORB MALE TO #6 JIC FEMALE	2
7	600-640-026	BOLT, 7/16-14 NC x 2 1/2"	2
6	600-720-004	WASHER, LOCK, 7/16	8
5	601-420-037	FITTING, STRAIGHT, #8 ORB TO #8 JIC	1
4	035-001-104	TRACK MANIFOLD BLOCK	1
3	601-420-019	FITTING, STRAIGHT, #6 ORB TO #6 JIC	4
2	601-420-024	FITTING, STRAIGHT, #8 ORB TO #6 JIC	1
1	050-010-108	WELDABLE MOUNTING PLATE	2

TRACK MANIFOLD ASSEMBLY  
(035-001-004)

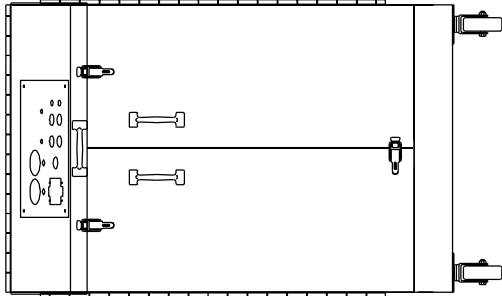
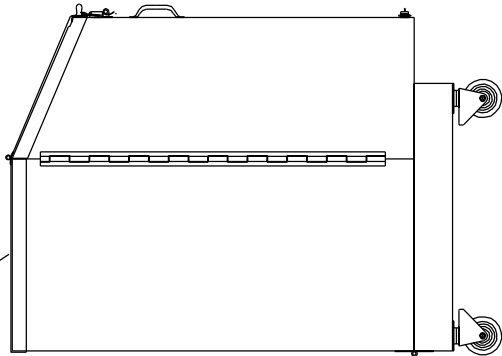
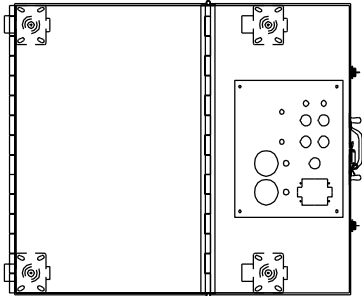
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DATE: 7/96



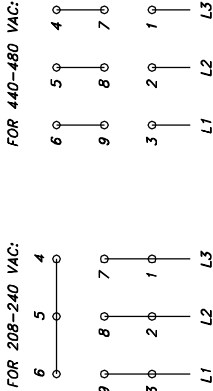


ITEM	PART NUMBER	DESCRIPTION	QTY
5	600-690-003	NUT, LOCK, 3/4-16 NF	(8)
4	050-000-179	TRACK STOP, BOTTOM	REF
3	050-000-157	TRACK STOP, TOP	REF
2	600-640-028	BOLT, 3/4-16 NF x 3 1/2"	(8)
1	050-010-037	RAMP ASSEMBLY, 8' LG	1
TOTAL			1

TRACK STOPS/RAMPS TO TRACKS



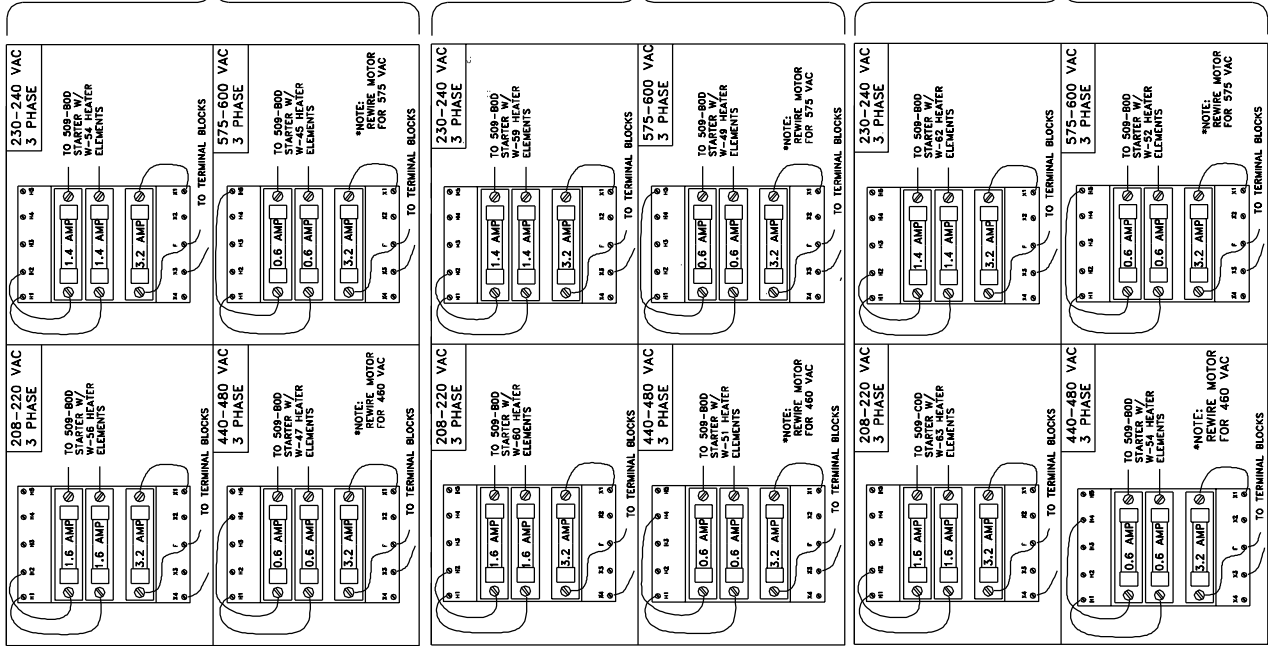
MOTOR WIRING:



- NOTES:
1. REFER TO ABOVE FOR MOTOR WIRING.
  2. REFER TO MAN1330B FOR ADDITIONAL ELECTRICAL SPECS

5	MAN1330B	ELECTRICAL SPECIFICATIONS	1
4	050-010-091	ELECTRICAL WIRING	1
3	MAN1332	TUBING & HOSE LIST, TR-CONSOLE	1
2	MAN1331	FITTING LIST, TR-SERIES CONSOLE	1
1	MAN1333	CONSOLE ASSEMBLY, UNFUSED	1
ITEM	PART NUMBER	DESCRIPTION	QTY

CONSOLE ASSEMBLY, TR-SERIES



TR-35

POWER UNIT:	ELECTRICAL SCHEMATICS	VOLTS:	HEATER ELEMENT: (QTY 3)	PRIMARY FUSE: (QTY 2)	SECONDARY FUSE: (QTY 1)	FULL LOAD AMPS
601-300-011	035-010-090	208-220	601-120-025	601-120-044	601-120-047	17
5 HP, 3 PHASE	035-010-090	230-240	601-120-014	601-120-042	601-120-047	15.4
230/460 VAC	035-010-091	460-480	601-120-030	601-120-038	601-120-047	7.7
1800 RPM	SPECIAL	575	601-120-012	601-120-038	601-120-047	6.2

TR-50

POWER UNIT:	ELECTRICAL SCHEMATICS	VOLTS:	HEATER ELEMENT: (QTY 3)	PRIMARY FUSE: (QTY 2)	SECONDARY FUSE: (QTY 1)	FULL LOAD AMPS
601-300-009	050-010-090	208-220	601-120-008	601-120-044	601-120-047	25.5
7.5 HP, 3 PHASE	050-010-090	230-240	601-120-026	601-120-042	601-120-047	20
230/460 VAC	050-010-092	460-480	601-120-031	601-120-038	601-120-047	11.5
1800 RPM	SPECIAL	575	601-120-028	601-120-038	601-120-047	9.2

TR-75

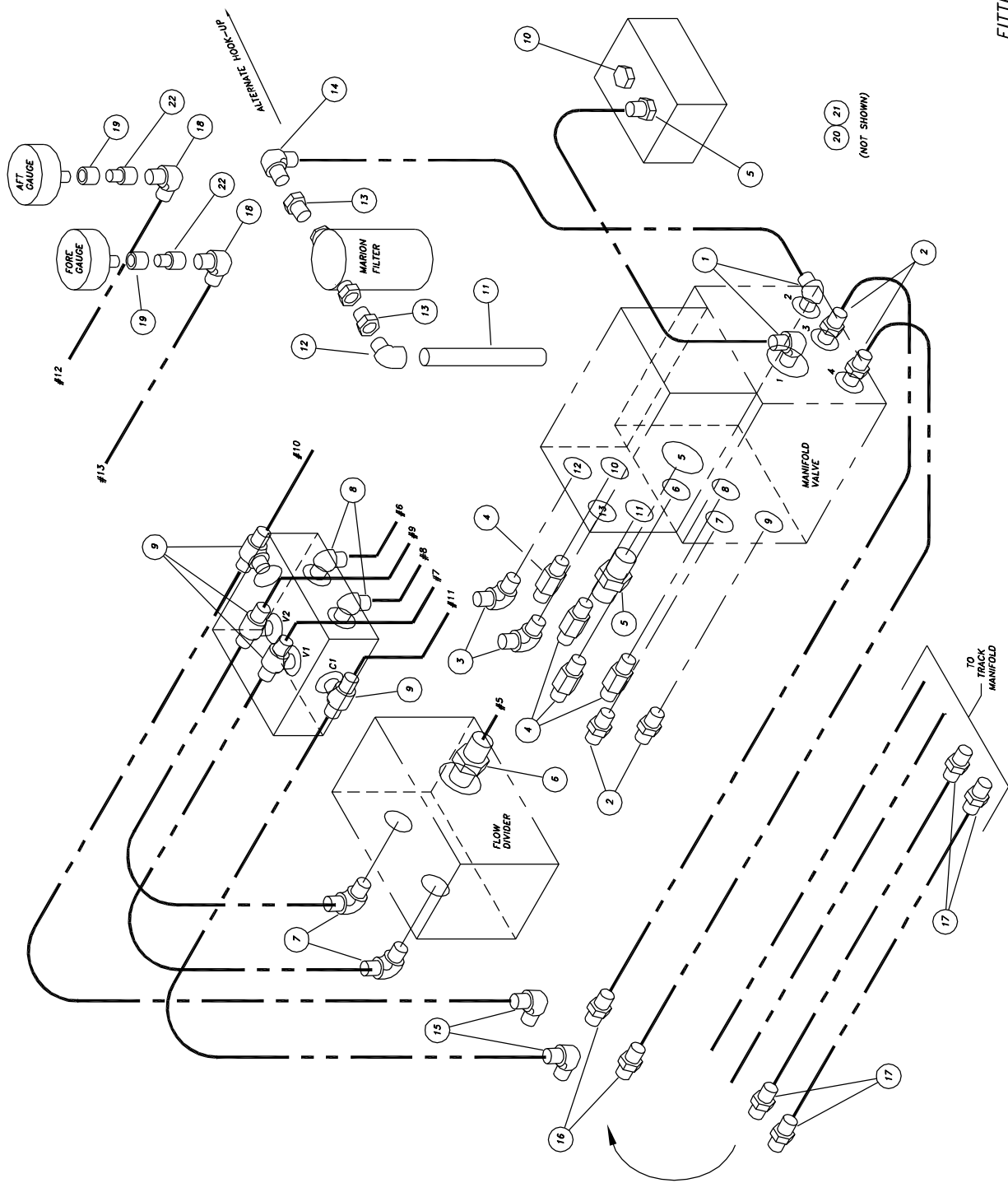
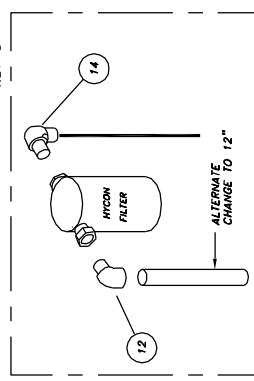
POWER UNIT:	ELECTRICAL SCHEMATICS	VOLTS:	HEATER ELEMENT: (QTY 3)	PRIMARY FUSE: (QTY 2)	SECONDARY FUSE: (QTY 1)	FULL LOAD AMPS
601-300-015	075-010-090	208-220	601-120-027	601-120-044	601-120-047	40
10 HP, 3 PHASE	075-010-090	230-240	601-120-007	601-120-042	601-120-047	36
230/460 VAC	075-010-091	460-480	601-120-014	601-120-038	601-120-047	18
1800 RPM	SPECIAL	575	601-120-024	601-120-038	601-120-047	14.5

TR-75

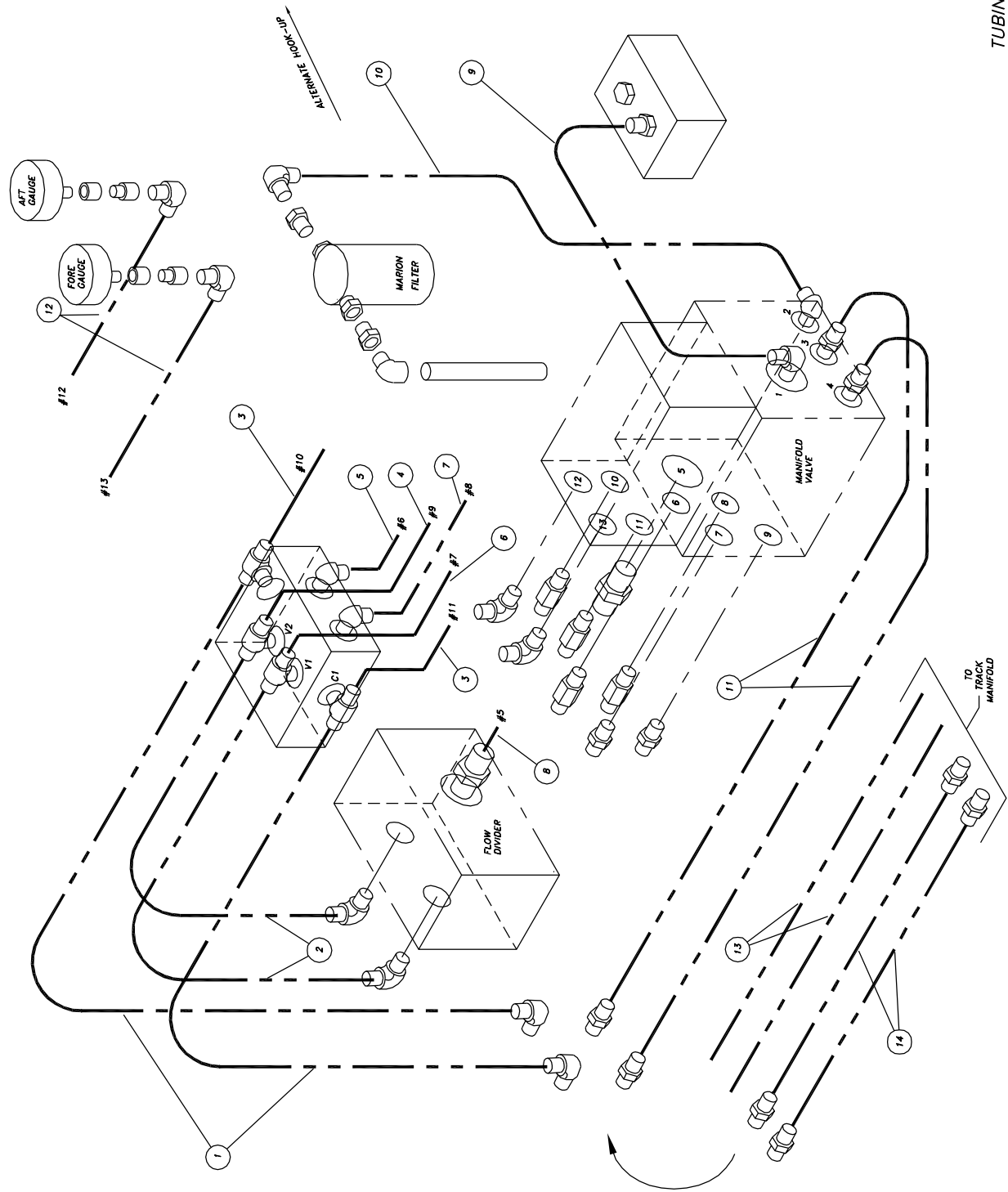
TR-SERIES ELECTRICAL SPECIFICATIONS

MAN1331

REV-B 1/01



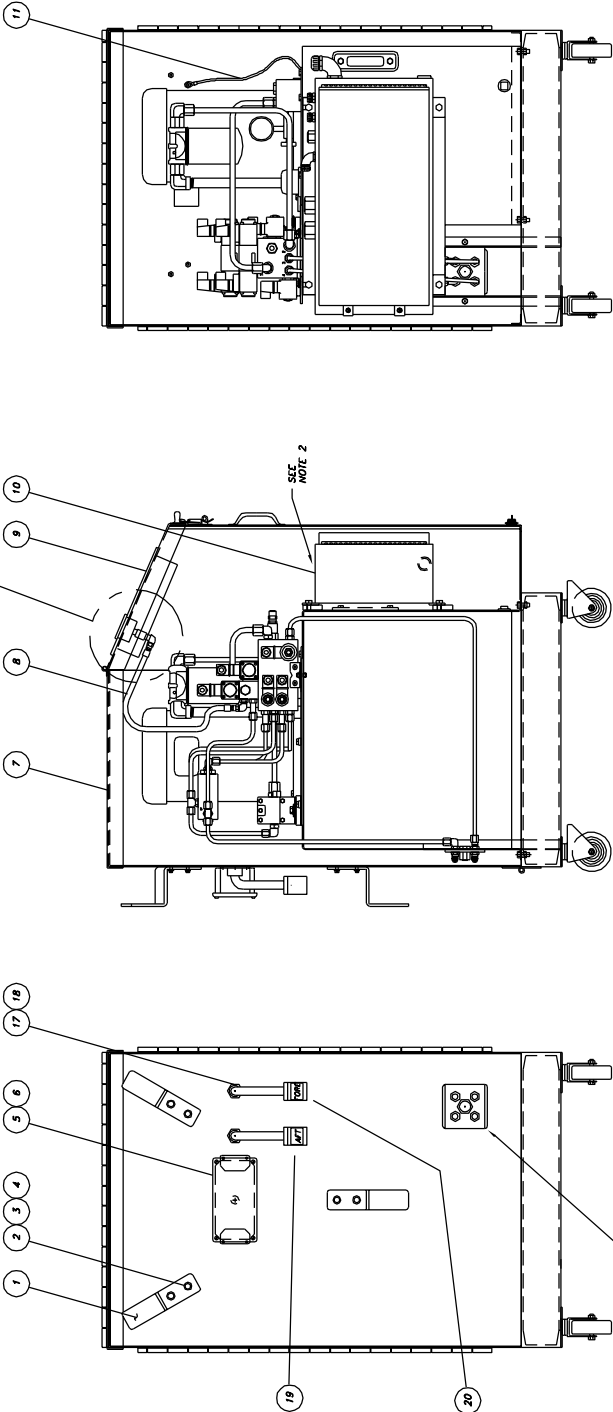
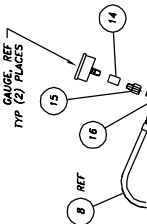
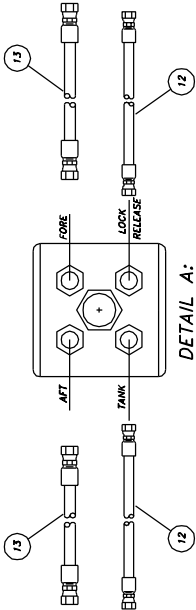
22	601-420-133	FITTING, COUPLING, #4 FEM ORB TO 1/4 MALE NPT F.	(2)	REF
21	601-430-034	FITTING, STRAIGHT, 1/2" HOSE TO 1/2 NPT M SWIV	(4)	REF
20	601-430-030	FITTING, STRAIGHT, 1/4" HOSE TO -6 JIC F SWIV	(8)	REF
19	601-450-093	FITTING, COUPLING, 1/4 NPT FEM TO 1/4 NPT FEM	(2)	REF
18	601-420-072	FITTING, ELBOW, 90°, #4 MALE ORB TO -6 JIC	(2)	REF
17	601-420-083	FITTING, STRAIGHT, 1/2 NPT F. TO -6 JIC F. SWIV	(4)	REF
16	601-420-040	FITTING, STRAIGHT, BULKHEAD, -6 JIC	(2)	REF
15	601-420-015	FITTING, ELBOW, 90°, BULKHEAD, -6 JIC	(2)	REF
14	601-420-070	FITTING, ELBOW, 90°, 3/4 NPT MALE TO -8 JIC	(1)	REF
13	601-420-034	FITTING, STRAIGHT, 3/4 NPT FEMALE TO -12 ORB	(2)	REF
12	601-420-036	FITTING, ELBOW, 90°, 3/4 NPT M. TO 3/4 NPT F.	(1)	REF
11	050-004-114	NIPPLE, NPT, 3/4" x 9 1/2" LG	(1)	REF
10	601-420-055	FITTING, PLUG, -8 ORB	(1)	REF
9	601-420-046	FITTING, TEE, -6 ORB TO -6 JIC (BRANCH)	(4)	REF
8	601-420-017	FITTING, ELBOW, 90°, -6 ORB TO -6 JIC	(2)	REF
7	601-420-023	FITTING, ELBOW, 90°, -8 ORB TO -6 JIC	(2)	REF
6	601-420-087	FITTING, STRAIGHT, -16 ORB TO -8 JIC	(1)	REF
5	601-420-037	FITTING, STRAIGHT, -8 ORB TO -8 JIC	(2)	REF
4	601-420-074	FITTING, STRAIGHT, -6 ORB TO -6 JIC (TALL)	(4)	REF
3	601-420-072	FITTING, ELBOW, 90°, -4 ORB TO -6 JIC	(2)	REF
2	601-420-019	FITTING, STRAIGHT, -6 ORB TO -6 JIC	(4)	REF
1	601-420-043	FITTING, ELBOW, 90°, -8 ORB TO -8 JIC	(2)	REF
ITEM	PART NUMBER	DESCRIPTION	QTY	



14	050-004-033	HOSE ASSEMBLY, 3/8" x 20" LG	(2)	REF
13	050-004-032	HOSE ASSEMBLY, 1/4" x 20" LG	(2)	REF
12	050-004-031	HOSE ASSEMBLY, 1/4" x 42" LG	(2)	REF
11	050-004-010	TUBING ASSEMBLY, 3/8" x 43 1/8" LG	(2)	REF
10	050-004-035	TUBING ASSEMBLY, 1/2" x 15 1/2" LG	(1)	REF
9	050-004-022A	TUBING ASSEMBLY, 1/2" x 24 7/8"	(1)	REF
8	000-003-003	TUBING ASSEMBLY, 1/2" x 7" LG	(1)	REF
7	050-004-013	TUBING ASSEMBLY, 3/8" x 9 1/4" LG	(1)	REF
6	050-004-012	TUBING ASSEMBLY, 3/8" x 15" LG	(1)	REF
5	050-004-011	TUBING ASSEMBLY, 3/8" x 8" LG	(1)	REF
4	050-004-014	TUBING ASSEMBLY, 3/8" x 19" LG	(1)	REF
3	050-004-015	TUBING ASSEMBLY, 3/8" x 12 1/2" LG	(2)	REF
2	050-004-030	TUBING ASSEMBLY, 3/8" x 10 1/2" LG	(2)	REF
1	050-004-017	TUBING ASSEMBLY, 3/8" x 26 1/4" LG	(2)	REF
ITEM	PART NUMBER	DESCRIPTION	QTY	

NOTES:

- 1. SIDE & FRONT COVERS OF CONTROL HOUSING WELDMENT REMOVED FOR CLARITY.
- 2. ATTACH OPEN ENDS OF CONDUIT & HOISING FROM ENCLOSURE TO CORRESPONDING POSITIONS INDICATED ON ENCLOSURE SUB-ASSEMBLY FOR CLARITY. CONDUIT & HOISING FROM ENCLOSURE NOT SHOWN ON THIS DRAWING.



18	601-140-047	CONNECTOR, CORD, STRAIGHT, 5/8-3/4, YELLOW	2
17	050-010-028	CONSOLE LEVLER CABLE ASSY	2
16	601-420-072	FITTING, 90° ELBOW, #4 MALE ORB TO #6 MALE JIC	2
15	601-420-133	FITTING, PIPE COUPLING, #4 FEM ORB TO 1/4 MALE PIPE PRESSURE CONNECTION #6404-04-04	2
14	601-420-083	FITTING, COUPLING, 1/4 NPT INT TO 1/4 NPT INT	2
13	050-004-033	HOSE ASSEMBLY, 3/8 ID x 20' LG	2
12	050-004-032	HOSE ASSEMBLY, 1/4 ID x 20' LG	2
11	050-004-026	CABLE ASSEMBLY	1
10	MAN1336	ENCLOSURE ASSEMBLY	1
9	MAN1335	CONTROL PANEL ASSEMBLY	1
8	050-004-031	HOSE ASSEMBLY, 1/4 ID x 42" LG	2
7	MAN1334	CONSOLE SUB-ASSEMBLY	1
6	600-600-001	SCREW, PAN HEAD 10-32 NF x 1/2 LG	4
5	601-160-025	JUNCTION BOX, 8" x 4" x 2 3/4" NEMA 6,12,13	1
4	600-710-005	WASHER, FLAT 1/4 FLAT	12
3	600-690-005	NUT, LOCK 1/4-20 NC	6
2	600-640-013	BOLT, KEY HEAD CAP 1/4-20 NC x 3/4 LG	6
1	050-004-106	HOSE BRACKET 1/4 x 2" (FLAT) x 12"	3
ITEM	PART NUMBER	DESCRIPTION	QTY

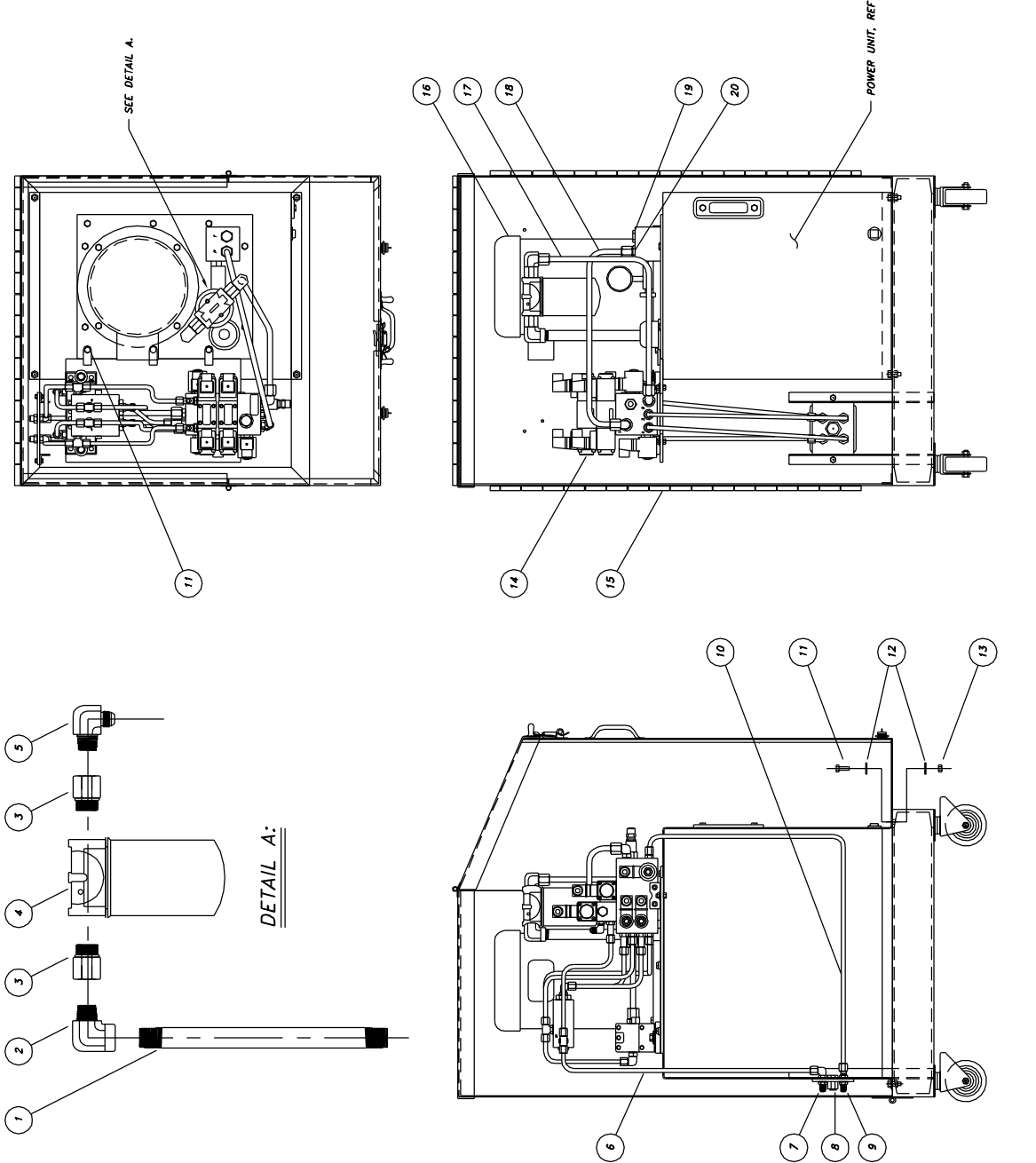
CONSOLE ASSEMBLY  
(050-004-001)

MAN1334

REV-A 4/99

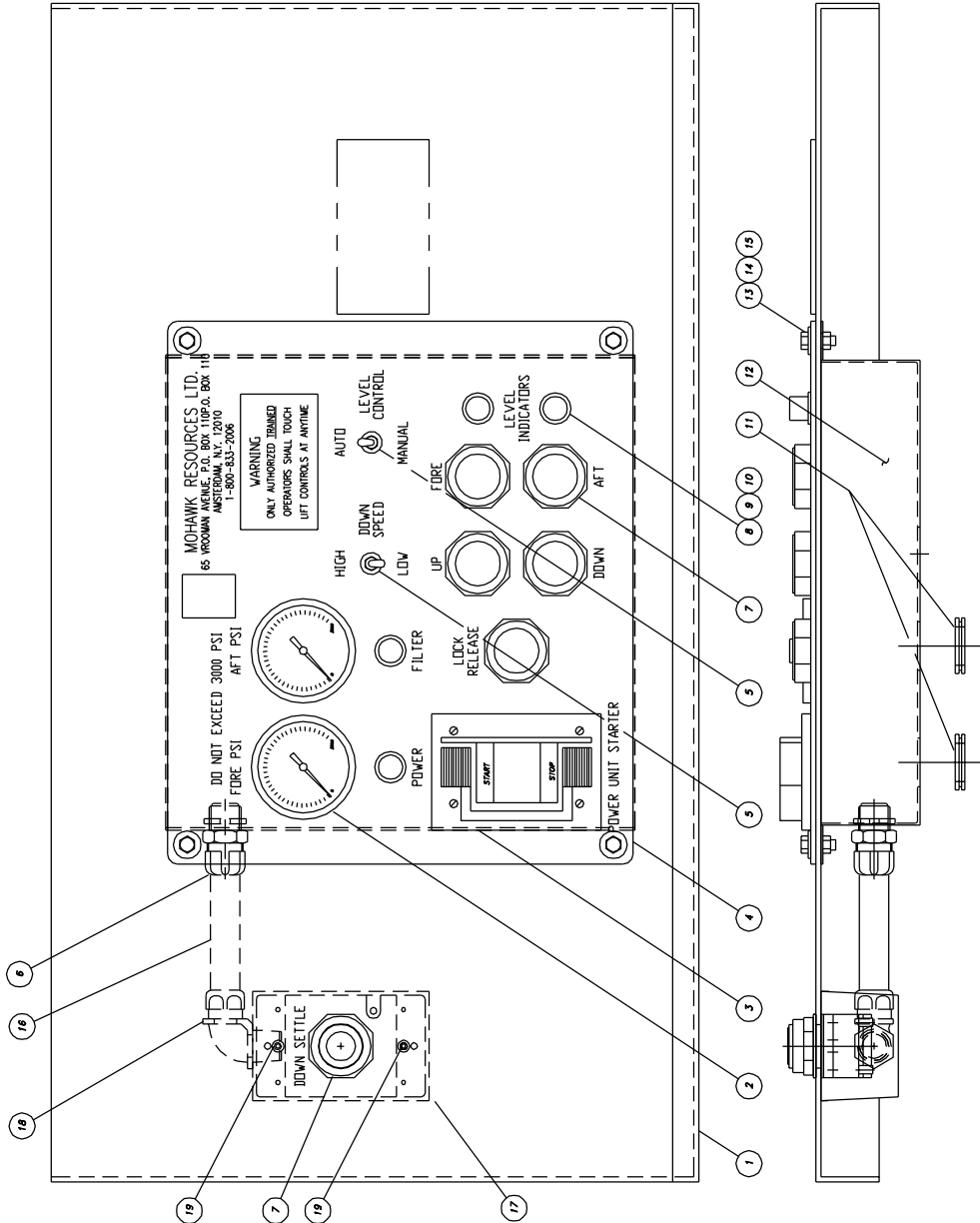
NOTE:

SIDE, FRONT & TOP COVERS OF CONSOLE  
WELDMENT REMOVED FOR CLARITY.



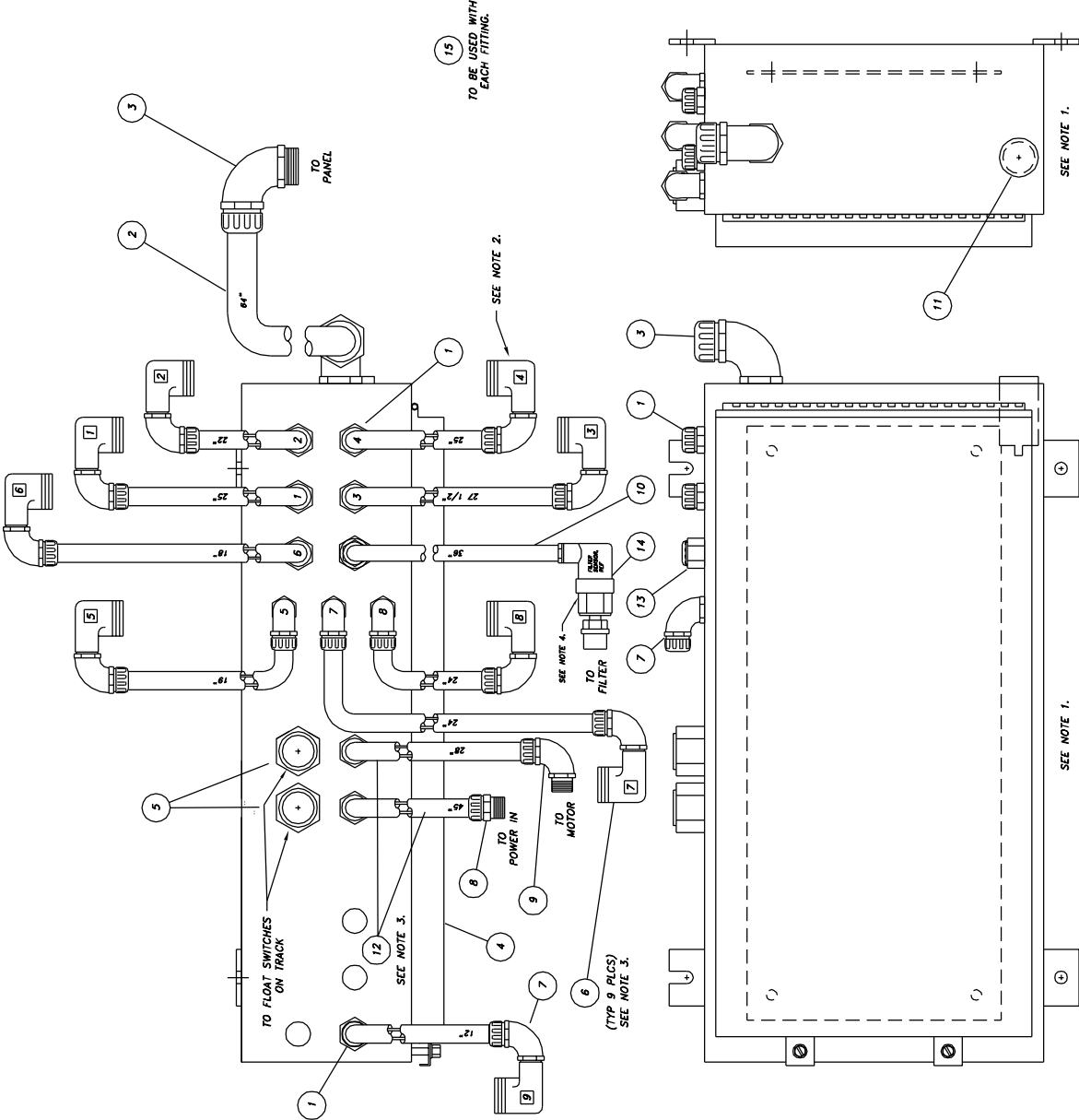
20	601-420-037	STRAIGHT, -8 ORB TO -8 JIC	1
19	601-420-055	PLUG, -8 ORB	1
18	050-004-022A	TUBING ASSEMBLY 1/2 OD x 24 7/8" LG	1
17	050-004-035	TUBING ASSEMBLY 1/2 OD x 15 1/2" LG	1
16	601-610-001	FLUID, HYDRAULIC	(GALLONS) 30
15	050-004-004	CONSOLE WELDMENT	1
14	MAN1337	MANIFOLD VALVE ASSEMBLY (LARGE FLOW DIVIDER)	1
13	600-680-001	NUT, LOCK 5/16-18 NC	4
12	600-710-003	WASHER, FLAT 5/16	8
11	600-840-017	BOLT, HEX HEAD CAP 5/16-18 NC x 1 1/4 LG	7
10	050-004-010	TUBING ASSEMBLY 3/8 OD x 43 1/8 LG	2
9	601-420-040	STRAIGHT, BULKHEAD, -6 JIC	2
8	601-140-019	CONNECTOR, CORD, STRAIGHT, 5/8-3/4	1
7	601-420-015	ELBOW, 90°, BULKHEAD, -6 JIC	2
6	050-004-017	TUBING ASSEMBLY 3/8 OD x 26 1/4 LG	2
5	601-420-070	ELBOW, 90°, 3/4 MALE PIPE TO -8 JIC	1
4	601-400-001	FILTER ASSEMBLY, 10 MICRON, SPIN-ON	1
3	601-420-034	STRAIGHT, 3/4 MALE PIPE TO -12 ORB	2
2	601-420-036	ELBOW, 90°, 3/4 MALE PIPE TO 3/4 FEMALE PIPE	1
1	050-004-114	NIPPLE, PIPE 3/4 DIA x 9 1/2" LG	1
ITEM	PART NUMBER	DESCRIPTION	QTY

CONSOLE SUB-ASSEMBLY  
(050-004-024)



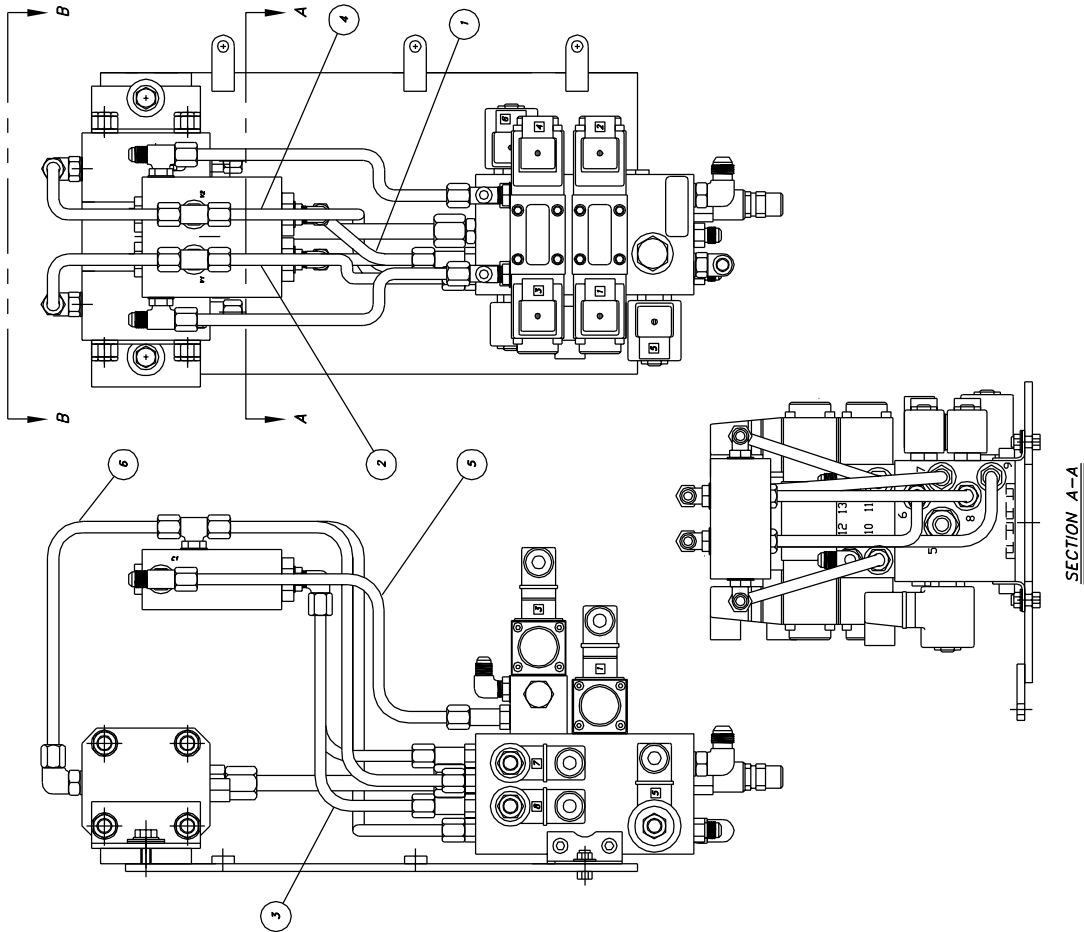
ITEM	PART NUMBER	DESCRIPTION	QTY
19	600-600-014	SCREW, #6-32 x 1/2, OVAL HEAD, MACHINE	2
18	601-140-024	FITTING, CONDUIT, 90° ELBOW, 3/8 T & B #5351	1
17	601-160-053	SINGLE GANG DEVICE BOX DCI #784401-38215, CAT #H43-1-LM	1
16	601-140-023	CONDUIT, LIQUID TIGHT, FLEXIBLE, 3/8 x 4 1/4 ELEC-FLEX #EF-10	1
15	600-710-011	WASHER, FLAT 1/4 FLAT	4
14	600-680-006	NUT, PLAIN 1/4-20 NC	4
13	600-640-042	BOLT, HEX HEAD CAP 1/4-20 NC x 1/2 LG	4
12	035-010-102	CONTROL PANEL PAN 20 (18) GA. x 17" x 19" 600-030-011	1
11	600-130-002	GROMMET, RUBBER, FOR 1 1/4" HOLE MCMASTER #9802K18	2
10	601-160-048	FLAT LENSE, RED IDI #2851	4
9	601-160-047	MINIATURE LAMP, SLIDE BASE, 120 VOLT IDI #120-PSB	4
8	601-160-046	LAMP SOCKET, 11/16" DIA HOLE IDI #2802	4
7	601-110-010	PUSH BUTTON, NEMA 4/13, GREEN ALLEN BRADLEY #800T-A1A	6
6	601-140-025	FITTING, CONDUIT, STR, 3/8 T & B #5351	1
5	601-110-045	TOGGLE SWITCH, MAINTAINED, DPDT NEWARK #16N898	2
4	050-010-120	CONTROL PANEL DECAL 1/16 THK x 12" x 14" 050-010-119	1
3	601-110-003	PUSH BUTTON STATION, START/STOP ALLEN BRADLEY #800S-2S44	1
2	601-440-002	GAUGE, PRESSURE, 0-3000 PSI, W/ MOUNT CLAMP WKA #976286	2
1	050-000-149	CONSOLE FRONT COVER 10 GA. x 17 5/8 x 33 1/8 600-030-008	REF



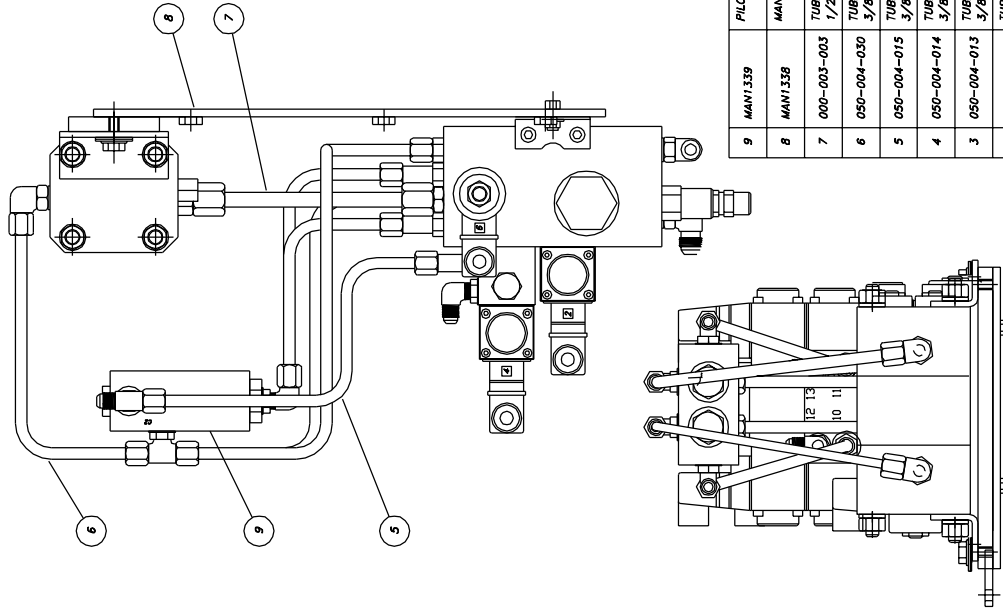


- NOTES:
1. FRONT & SIDE VIEWS SHOWN WITHOUT CONDUIT ATTACHMENTS.
  2. REMOVE SOLENOID ELECTRICAL CONNECTORS FROM MANIFOLD VALVE AND ATTACH TO CONDUIT ENDS AS SHOWN.
  3. CUT ALL CONDUIT TO LENGTHS SHOWN.
  4. REMOVE FILTER SENSOR FROM FILTER & ATTACH TO ITEM 10 WITHIN ENCLOSURE.

ITEM	PART NUMBER	DESCRIPTION	QTY
15	601-030-026	O-RING, 1.062 OD x 0.612 ID x .125 DIA PARKER #2-211	14
14	601-160-066	CLOGGING INDICATOR, FILTER	1
13	601-140-045	CONNECTOR, CORD, STRAIGHT, 1/4-3/8", CLEAR O-2/GEENEY #SR-30-375	1
12	601-140-001	CONDUIT, LIQUID TIGHT FLEXIBLE, 1/2" x 73" LG ELEC-FLEX #AF-11	1
11	601-160-002	SOMALERT MALLORY #SC-110HJ	1
10	601-150-040	CONDUCTOR, 18/3, STO, 36" LG	1
9	601-140-005	FITTING, CONDUIT, 90° ELBOW, 1/2" TAB #5352	1
8	601-140-006	FITTING, CONDUIT, STRAIGHT, 1/2" TAB #5352	3
7	601-140-024	ELBOW, 90°, CONDUIT FITTING, 3/8" TAB #5351	13
6	601-140-023	CONDUIT, LIQUID TIGHT FLEXIBLE, 3/8" x 196 1/2" ELEC-FLEX #EF-10	1
5	601-140-047	CONNECTOR, CORD, STRAIGHT, 5/8-3/4, YELLOW O-2/GEENEY #SR-100-750	2
4	030-004-107	ENCLOSURE DRILLING 601-160-026	1
3	601-140-027	ELBOW, 90°, CONDUIT FITTING, 1" RACO #3424-1	2
2	601-140-026	CONDUIT, LIQUID TIGHT FLEXIBLE, 1" x 64" LONG ELEC-FLEX #LA13-50	1
1	601-140-025	STRAIGHT, CONDUIT FITTING, 3/8" TAB #5331	7



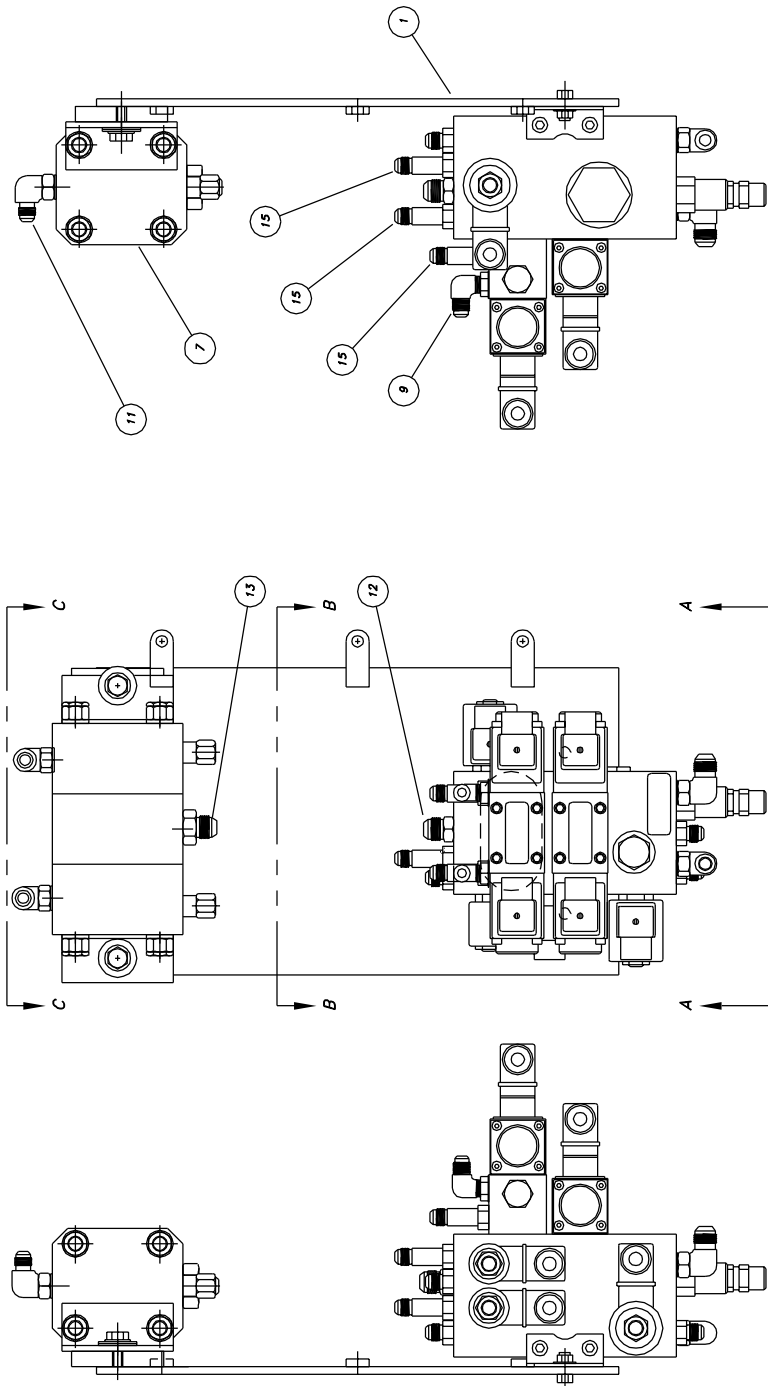
VIEW B-B



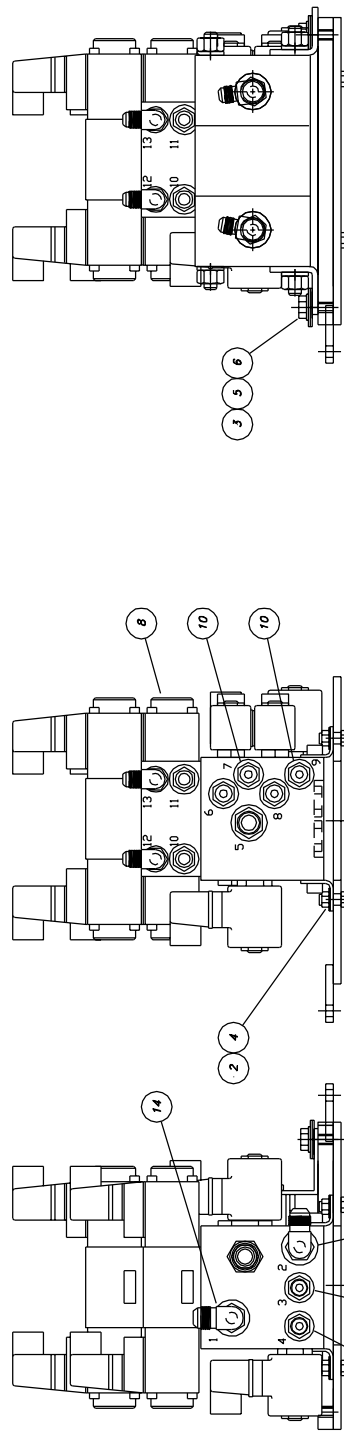
ITEM	PART NUMBER	DESCRIPTION	QTY
9	MAN1339	PILOT OPERATED CHECK VALVE ASSEMBLY	1
8	MAN1338	MANIFOLD - VALVE MOUNTING BASE ASSEMBLY	1
7	000-003-003	TUBING ASSEMBLY 1/2 OD x 7" LG	1
6	050-004-030	TUBING ASSEMBLY 3/8 OD x 10 1/2 LG	2
5	050-004-015	TUBING ASSEMBLY 3/8 OD x 12 1/2 LG	2
4	050-004-014	TUBING ASSEMBLY 3/8 OD x 19" LG	1
3	050-004-013	TUBING ASSEMBLY 3/8 OD x 9 1/4 LG	1
2	050-004-012	TUBING ASSEMBLY 3/8 OD x 15" LG	1
1	050-004-011	TUBING ASSEMBLY 3/8 OD x 8" LG	1

MANIFOLD ASSEMBLY (LARGE FLOW DIVIDER)  
(050-004-029)  
FILE: MAN1337  
DATE: 8/96

MAN1338



16  
(NOT SHOWN)



VIEW C-C:

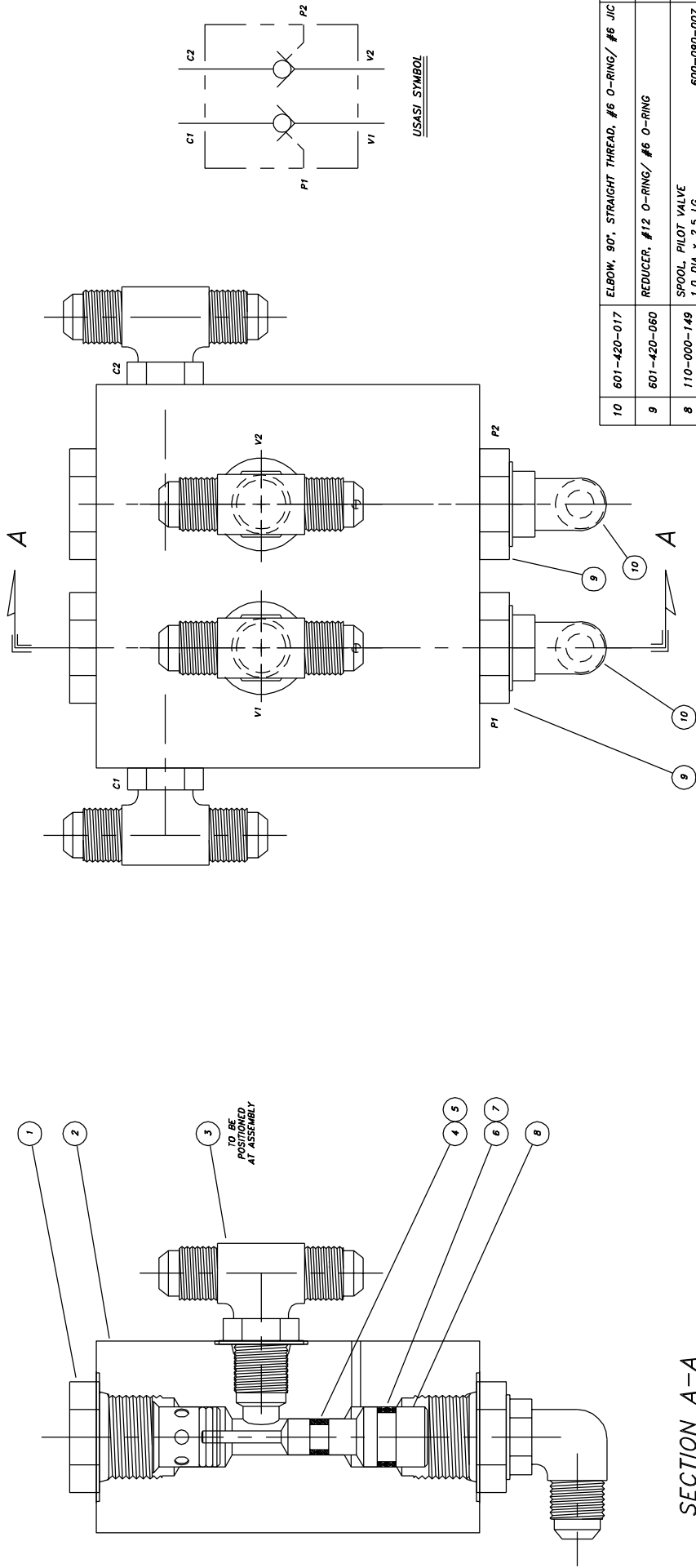
SECTION B-B:

VIEW A-A:

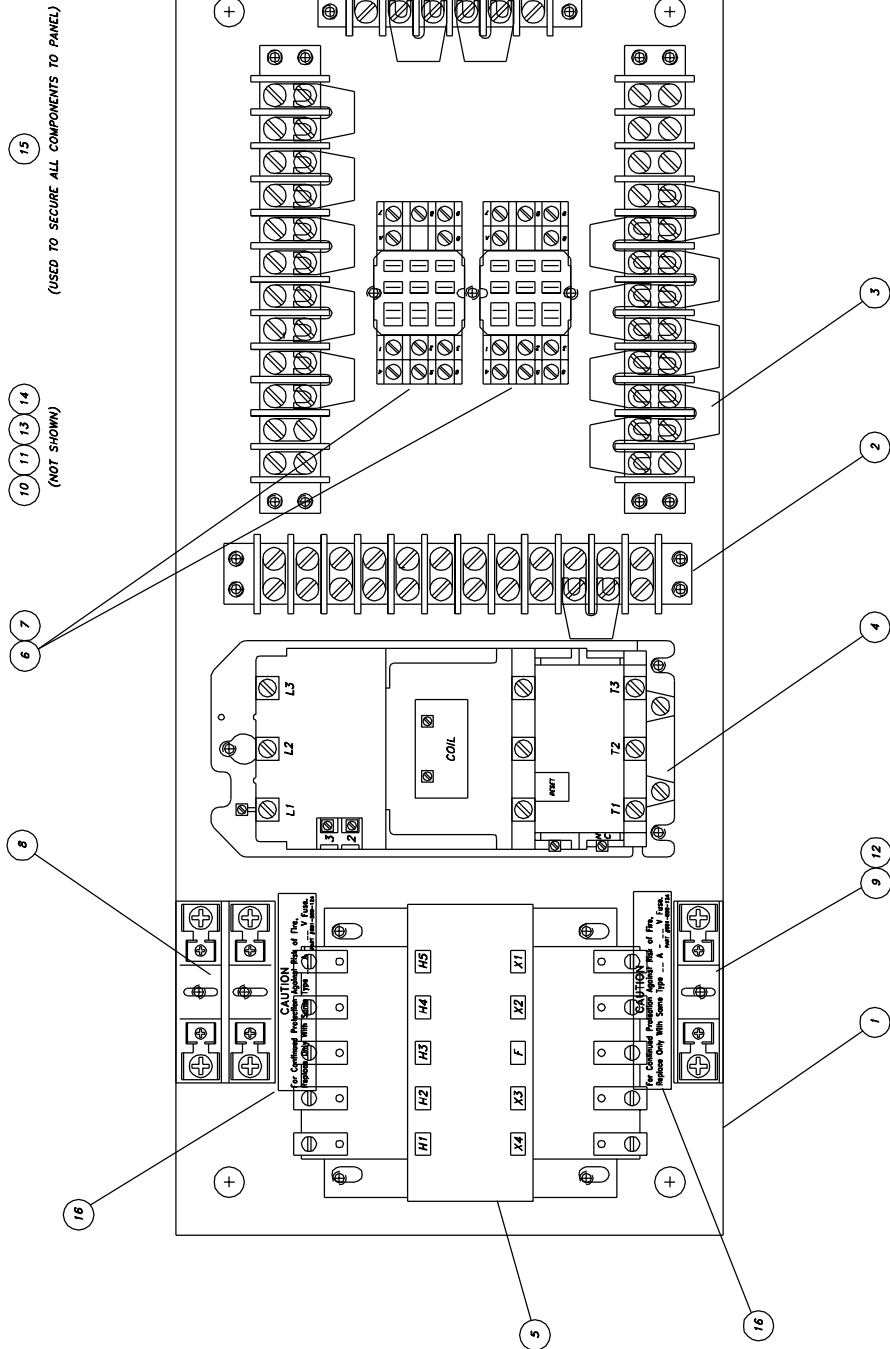
ITEM	PART NUMBER	DESCRIPTION	QTY
16	601-610-002	THREAD SEALING COMPOUND	A/R
15	801-420-074	STRAIGHT, LONG, -8 ORB TO -6 JIC	4
14	801-420-043	ELBOW, 90°, -8 ORB TO -8 JIC	2
13	801-420-087	STRAIGHT, -16 ORB TO -8 JIC	1
12	801-420-037	STRAIGHT, -8 ORB TO -8 JIC	1
11	801-420-023	ELBOW, 90°, -8 ORB TO -8 JIC	2
10	801-420-019	STRAIGHT, -6 ORB TO -6 JIC	4
9	801-420-072	ELBOW, 90°, -4 ORB TO -6 JIC	2
8	801-410-036	MANFOLD VALVE W/DOWN FLOW THRU	1
7	801-410-041	FLOW DIVIDER	1
6	800-720-004	WASHER, LOCK 7/16	2
5	800-710-005	WASHER, FLAT 7/16	4
4	800-710-003	WASHER, FLAT 5/16	2
3	800-640-034	BOLT, HEX HEAD CAP 3/8-16 NC x 3/4 LG	2
2	800-640-001	BOLT, HEX HEAD CAP 5/16-18 NC x 1" LG	2
1	050-004-027	VALVE MOUNTING BASE ASSEMBLY	1

VALVE & MOUNTING BASE (LARGE FLOW CONTROL)  
(050-004-028)

FILE: MAN1338  
DATE: 8/96



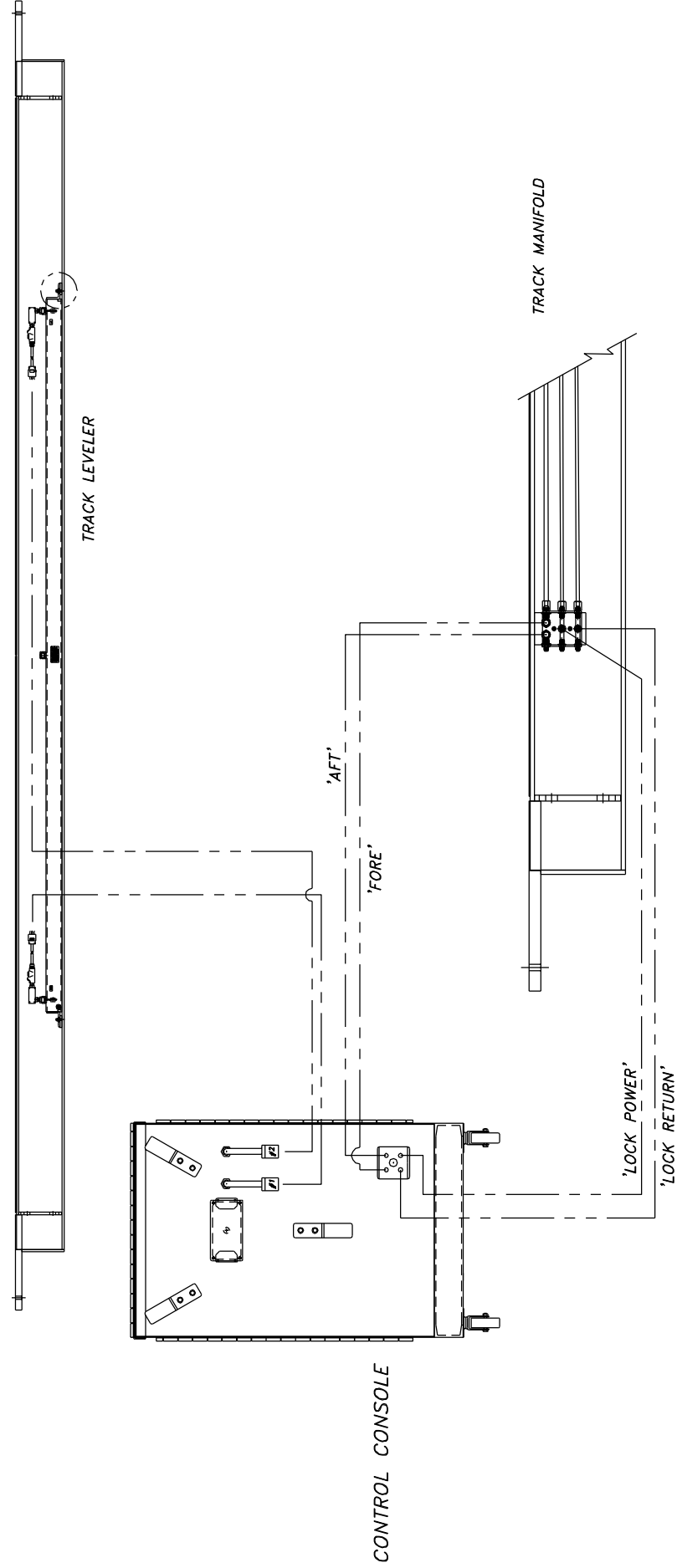
10	601-420-017	ELBOW, 90°, STRAIGHT THREAD, #6 O-RING/ #6 JIC	2
9	601-420-060	REDUCER, #12 O-RING/ #6 O-RING	2
8	110-000-149	SPOOL, PILOT VALVE 1.0 DIA x 2.5 LG	2
7	601-060-004	BACK-UP RING, 0.765 ID x 0.874 OD x 0.049 THK	4
6	601-030-024	O-RING, 3/4 ID x 7/8 OD x 1/16 D	2
5	601-060-001	BACK-UP RING, 0.518 ID x 0.624 OD x 0.049 THK	4
4	601-030-022	O-RING, 1/4 ID x 3/8 OD x 1/16 D	2
3	601-420-046	TEE, BULKHEAD, #6 JIC/ #6 JIC/ #6 O-RING	4
2	110-000-148	BODY, CHECK VALVE 6061-T6, 2 x 4 x 4.5	1
1	601-410-029	VALVE, CHECK	2
ITEM	PART NUMBER	DESCRIPTION	QTY



17	601-160-009	TERMINAL BLOCK, 6 POLE, 30A, 600V	1
16	601-800-124	DECAL, CAUTION...REPLACE ONLY WITH TYPE....FUSE	2
15	600-600-006	SCREW, #10-32 x 1/2" LG. SLOT, RD HD, MACH	29
14	050-004-434	WIRE, 14 AWG, THHN, GREEN x 15 FT. LONG	1
13	050-004-433	WIRE, 14 AWG, THHN, WHITE x 30 FT. LONG	1
12	601-120-047	FUSE, CLASS CC, 3 2/10 AMP TIME DELAY	1
11	050-004-432	WIRE, 14 AWG, THHN, RED x 200 FT. LONG	1
10	601-150-032	TERMINAL, SOLDERLESS, HOOKED SPADE	200
9	601-120-074	FUSE BLOCK, SINGLE, MIDGET	1
8	601-120-073	FUSE BLOCK, DOUBLE, CLASS CC	1
7	601-160-035	RELAY, CONTROL, 3PDT, 120 VAC	2
6	601-160-017	SOCKET, RELAY, SCREW-IN	2
5	601-160-043	TRANSFORMER, 250 VA, 208-600 VAC	1
4	601-100-038	STARTER, COMBINATION, NEMA 1	1
3	601-160-022	TERMINAL JUMPER	19
2	601-160-021	TERMINAL BLOCK, 12 POLE, 12 AWG	3
1	050-004-108	PANEL DRILLING	1
ITEM	PART NUMBER	DESCRIPTION	QTY

ENCLOSURE PANEL ASSEMBLY

(050-004-009)



# **MOHAWK**

## **NEW SLAB RECOMMENDATIONS**



### **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](http://www.MOHAWKLIFTS.com)  
**E-MAIN:** [Service@MOHAWKLIFTS.com](mailto:Service@MOHAWKLIFTS.com)

## **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.

Never, Never, hand mix your own concrete.



## New Slab Recommendations

File: New-slab.xls

Rev Date: 10/12/01

**NEW SLABS MUST BE 12" THICK MINIMUM !!**

Lift Model	W Slab Width, (Feet)	L Slab Length, (Feet)	R Reinforcement Size, (Inch)	S Reinforcement Spacing, (Inch)	D Wej-it Dia, (Inch)	I Wej-it Length, (Inch)
A-7	4'	14'	#3 (3/8") *	8"	3/4"	5 1/2"
Tomahawk	4'	14'	#3 (3/8") *	8"	3/4"	5 1/2"
System IA	4'	14'	#3 (3/8") *	8"	3/4"	5 1/2"
LMF-12	6'	15'	#3 (3/8") *	8"	3/4"	6 1/4"
TP-15	6'	15'	#3 (3/8") *	8"	3/4"	6 1/4"
TP-18	6'	16'	#3 (3/8") *	8"	3/4"	6 1/4"
TP-20	6'	16'	#3 (3/8") *	8"	3/4"	6 1/4"
TP-26	N/A**	N/A**	N/A**	N/A**	N/A**	N/A**
TP-30	N/A**	N/A**	N/A**	N/A**	N/A**	N/A**
TR-19****	2'	2'	N/A***	N/A***	3/4"	5 1/2"
FL-25****	2'	2'	N/A***	N/A***	3/4"	5 1/2"
TR-25****	2'	2'	N/A***	N/A***	3/4"	5 1/2"
TR-33****	6'	6'	N/A***	N/A***	3/4"	5 1/2"
TR-35****	6'	6'	N/A***	N/A***	3/4"	5 1/2"
TR-50****	6'	6'	N/A***	N/A***	3/4"	5 1/2"
TR-75****	6'	6'	N/A***	N/A***	3/4"	5 1/2"

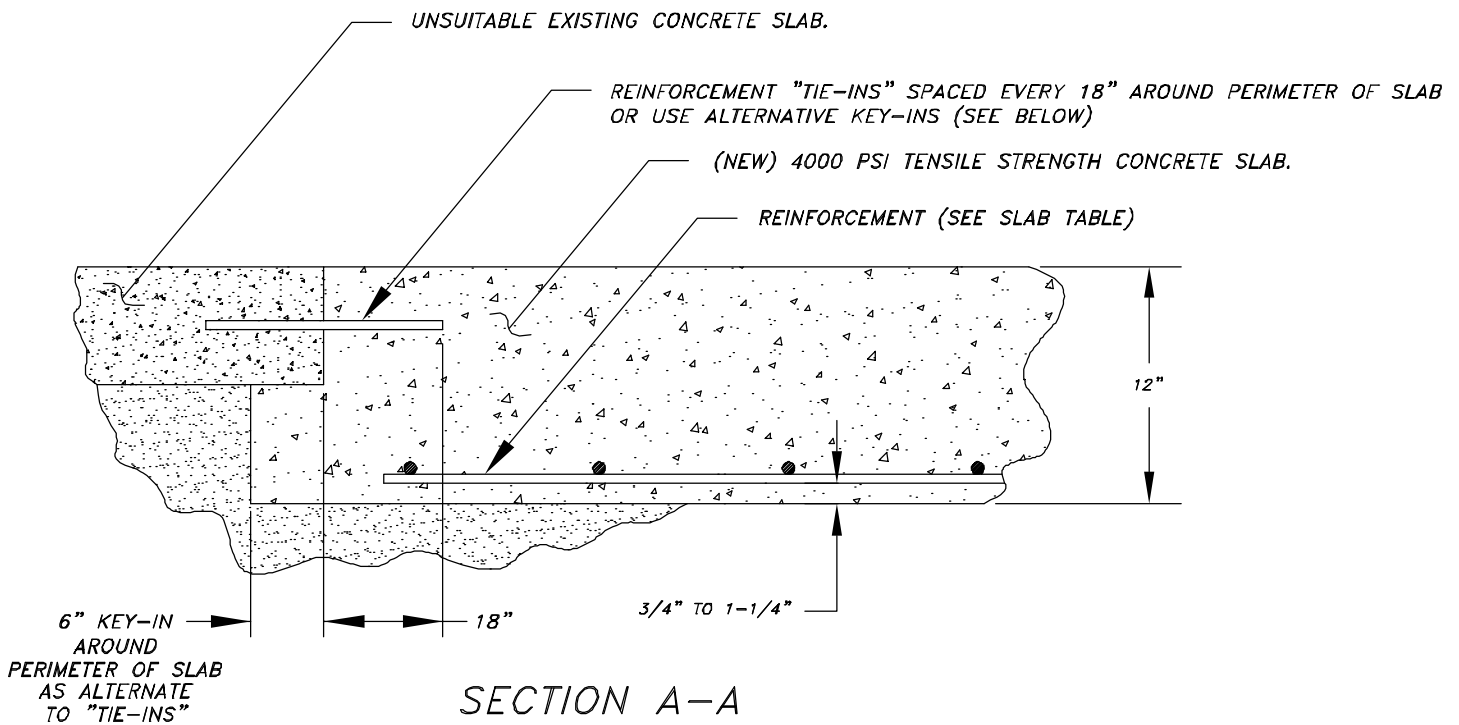
\* An Acceptable Alternative is to use 4 x 4 Wire Mesh at same specified location.

\*\* See Subframe Installation Instructions

\*\*\* No Reinforcement Required (4 x 4 Wire Mesh Recommended)

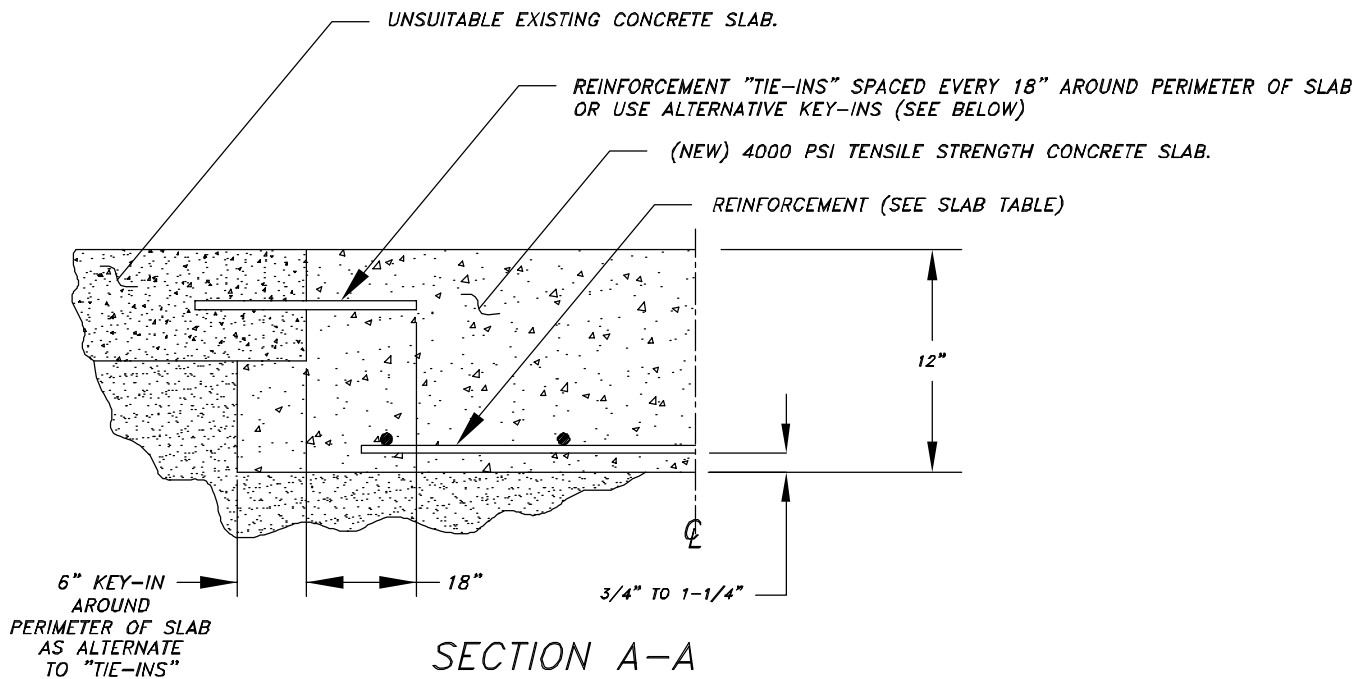
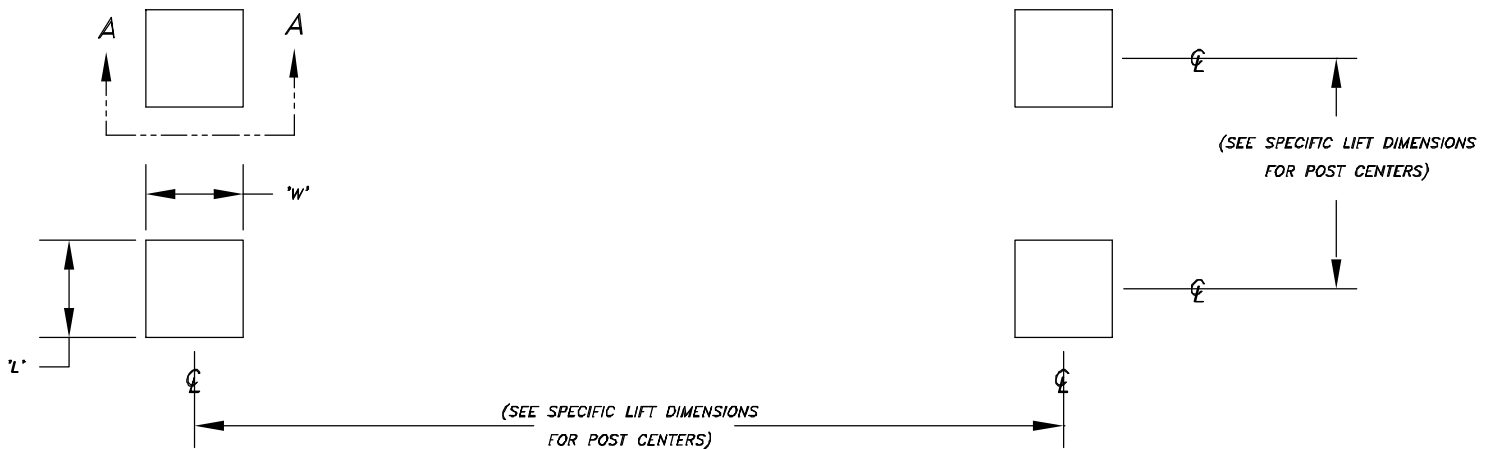
\*\*\*\* Four Separate Slabs Formed at each Post.

FILE: MAN066  
DATE: 2/98  
REV DATE: 4/99

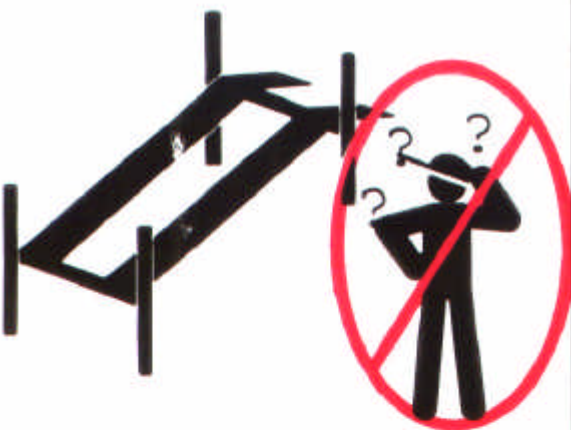


# NEW RECOMMENDED SLAB DESIGN FOR 4-POST LIFTS

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



**⚠ CAUTION**



**Lift to be used  
by trained operator  
ONLY.**

©

**⚠ CAUTION**



**Authorized personnel  
only in lift area.**

©

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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ALI/WL200c

## SAFETY INSTRUCTIONS



Read operating and safety manuals before using lift.

©

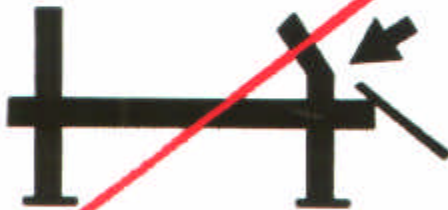
## SAFETY INSTRUCTIONS



Proper maintenance and inspection is necessary for safe operation.

©

## SAFETY INSTRUCTIONS



Do not operate a damaged lift.

©

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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ALI/WL200s





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ALI/WL200w

# 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.



# MOHAWK



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FAX 518-842-1289



[www.mohawklifts.com](http://www.mohawklifts.com)