MOHAWK



MADE IN THE U.S.A.

MODEL TR-110

110,000 LB. CAPACITY FOUR POST TRUCK LIFT MANUAL

WARRANTY CARD

Thank you for sending in your registration card! This will help us to serve you better in the future.

-Mohawk Resources Ltd.











MOHAWK RESOURCES LTD.

65 VROOMAN AVENUE AMSTERDAM, NY 12010 TOLL FREE: 1-800-833-

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 num	nber when	calling for	r service
Model Number				-	
Serial Number					

OR CONTACT:

MOHAWK RESOURCES LTD.

65 Vrooman Ave.

P.O. Box 110

Amsterdam, NY 12010 Toll Free: 1-800-833-2006

Local: 1-518-842-1431 Fax: 1-518-842-1289

Internet: www.MOHAWKLIFTS.com
E-Mail: Service@MOHAWKLIFTS.com

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-20, 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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STRUCTURAL ASSY DIAGRAMS

LIFT DIMENSIONAL LAYOUT EQUALIZING CHAIN ROUTING POST SHIMMING ANCHOR BOLT INSTALL SPECS WHEEL CHOCK PLACEMENT

HYDRAULIC/PNEUMATIC DIAGRAMS

CONSOLE CONNECTIONS
HYDRAULIC/PNEUMATIC PLUMBING
HYDRAULIC SCHEMATIC
PNEUMATIC SCHEMATIC

ELECTRICAL DIAGRAMS

LIFT ELECTRICAL CABLE ROUTING
TRACK JUNCTION BOX WIRING
CONTROL PANEL FUNCTIONS
TRACK LEVELER FUNCTIONS
REED SWITCH ADJUSTMENT, LOCKS OPEN
REED SWITCH ADJUSTMENT, LOCKS NOT CLOSED
ELECTRICAL SCHEMATIC
ELECTRICAL WIRING DIAGRAMS

PARTS DRAWINGS

SAFETY DIAGRAMS

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 - 110. ANY SPECIAL FEATURES WILL BE INDICATED ON THE LIFT VERIFICATION SHEET.

OVERHEAD OBSTRUCTIONS:

THE AREA THAT 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 REOUIREMENTS.

POWER SUPPLY:

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

BAY SIZE:

REFER TO THE LIFT VERIFICATION SHEET FOR DIMENSIONAL SPECS FOR LIFT.

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 110. WE RESERVE THE RIGHT TO MAKE CHANGES AT ANY TIME WITHOUT NOTICES.
- ALWAYS REFER TO THE LIFT VERIFICATION SHEET.
 SPECIFIC INFORMATION PERTAINING TO THIS LIFT IS FOUND ON THESE PAGES.

GENERAL INFORMATION CONTINUED

RECOMMENDED TOOL LIST

SIZE / QTY	TOOL	USED FOR
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 (8000 LBS. MIN CAP.)	ERECT / MOVE HEAVY COMPONENTS

WARNING

BEFORE DRILLING THE MOUNTING HOLES

- AFTER VERIFYING THAT THE UNIT IS OPERATING SMOOTHLY AND ALL POSTS ARE SQUARE AND PLUMB, THE UNIT CAN BE SECURELY MOUNTED TO THE SHOP FLOOR. DO NOT ANCHOR INDIVIDUAL POSTS TO FLOOR PRIOR TO ASSEMBLY OF LIFT OR OPERATION!
- REFERENCE ANCHOR BOLT INSTALLATION SPECS FOR DRILLING AND AND INSTALLING ANCHORS. OBEY ALL WARNINGS.
- ENSURE THAT ALL POSTS ARE SHIMMED PROPERLY. 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

- USING THE HOLES AT THE BASE OF EACH POST AS A GUIDE, DRILL THE FOUR MOUNTING HOLES FOR THE ANCHORS. 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 THREE TO FIVE FULL TURNS. (165-175 FOOT POUNDS)
- 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.

GENERAL INFORMATION CONTINUED

FLOOR REQUIREMENTS

MODEL	MINIMUM	MINIMUM	MINIMUM
	THICKNESS	COMPRESSIVE	AGING
		STRENGTH	
TR-110	8 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 IT 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	FOUR PADS	TOTAL POUR
	THICKNESS	WIDTH X LENGTH	VOLUME
TR-110	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.

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-110 STANDARD LIFT SPECIFICATIONS

GROSS LIFTING CAPACITY	110,000 LBS.	
LIFTING SPEED (UP CYCLE)	2 MINUTES APPROX	
LIFTING HEIGHT (STROKE)	5 FEET	60 INCHES
OVERALL WIDTH (W/O CONSOLE)	15 FT. 9 IN.	189 IN.
OVERALL LENGTH	48 FT. 9 1/2 IN.	585 1/2 IN.
TRACK WIDTH	3 FT.	36 IN.
WIDTH CLEARANCE BETWEEN POSTS	11 FT	132 IN.
MAXIMUM VEHICLE WHEEL BASE	27 FT. APPROX	324 IN. APPROX
SHIPPING WEIGHT	33,000 LBS. APPROX	

POWER UNIT SPECIFICATIONS

MODEL NUMBER	F.P.S. CUSTOM, MOHAWK #601-300-063*
MOTOR VOLTAGE	208-230/460 VAC
MOTOR HORSE POWER	20 HP
MOTOR PHASE	THREE
MOTOR NAMEPLATE AMPERAGE	53-48/24
MOTOR CYCLE / HERTZ	60
MOTOR SPEED	1750 RPM
PUMP FLOW	10 GPM APPROX
RELIEF VALVE SETTING	2700-2800 PSI MAX
RESERVOIR CAPACITY	30 U.S.GALLONS
POWER UNIT	T-STYLE
HYDRAULIC FLUID MEDIUM	DEXRON III
CIRCUIT BREAKER RECOMMENDED	100 AMP @ 208 VAC, 60 AMP @ 460 VAC
	(REFER TO N.E.C. & LOCAL CODES)

SUGGESTED MINIMUM BAY SIZE

WIDTH	DEPTH	HEIGHT
20 FEET	60 FEET	20 FEET

NOTE

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

ANCHOR / WEJ-IT

LENGTH	DIAMETER	DRILL SIZE	DRILL SIZE	TORQUE
		MINIMUM	MAXIMUM	FOOT POUNDS
6 1/2 INCHES	3/4 INCH	0.775	0.787	165-175

WARNING

NEVER USE AN IMPACT WRENCH OR TOOL TO TIGHTEN THE WEJ-IT ANCHORS.

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 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 EIGHT 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.

WARNING

ALL ACCESSORIES (I.E. LIFTING PADS, HEIGHT ADAPTERS, JACKING BEAMS) 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 AND DAMAGE TO THE UNIT.

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.

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.

TR-110 STANDARD PACKING LIST

PACKED	QTY	PART NUMBER	DESCRIPTION
	2 EA	110-004-XXX	POST ASSEMBLY (POST # 1 & 4)
	2 EA	110-004-XXX	POST ASSEMBLY (POST # 3 & 2)
	2	110-004-020	CROSSRAIL ASSEMBLY
	1	110-004-045	MAINSIDE TRACK ASSEMBLY
	1	110-004-047	OFF SIDE TRACK WELDMENT
	2	110-004-055	DRIVE ON RAMP ASSEMBLY, ~15' Long
	1	110-004-064	CONTROL CONSOLE ASSEMBLY
	1	110-004-XXX	PARTS BOX # 1
	1	110-004-XXX	PARTS BOX # 2
	1	110-004-XXX	PARTS BOX # 1
	1	110-004-XXX	MANUAL / INSTALLATION (TR - 110)
	1	601-800-003	MANUAL / SAFETY (LIFTING IT RIGHT)
	1	601-800-006	AUTOMOTIVE SAFETY TIPS CARD
	4	600-930-001	WHEEL CHOCKS
	2	110-004-133	TRACK STOPS (BOTTOM)
	2	110-004-132	TRACK STOPS (TOP)
	6	110-004-067	HYDRAULIC HOSE ASSEMBLIES
	1	601-800-070	WARRANTY REGISTRATION CARD PACKAGE
	1	110-004-XXX	PARTS BOX # 2
	1	110-004-XXX	SMALL PARTS BAG
	6	601-630-002	SPRAY PAINT (YELLOW)
	6	601-630-002	SPRAY PAINT (RED)
	16	600-670-009	WEJ-IT ANCHOR (3/4 X 6 1/4)
	10	000 070 005	WES 11 ARCHOR (5/4 A 0 1/4)
	1	110-002-XXX	SMALL PARTS BAG
	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
		PACKED BY:	

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 MUST 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 ARE PRESENT. 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. REFER TO ENCLOSED SETUP DIAGRAM

NOTE MARKINGS ON CARRIAGES & CROSSRAILS:

THE CARRIAGES AND CROSS RAILS ARE MATCHED DRILLED AND LABELED ONE, TWO, THREE, AND FOUR. THERE ARE REFERENCE MARKS ON THE TOP OF THE CROSS RAILS AND THE TOP PLATE ON THE ADJOINING CARRIAGES. REFERENCE SETUP DIAGRAM FOR NUMBER LOCATIONS.

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 CROSSRAIL CHAINS HAVE BEEN ROUTED THROUGH THE CARRIAGES.
- VERIFY THAT THE 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 CROSSRAIL AND CARRIAGES. LAY THE EXCESS CHAIN ONTO THE CROSSRAIL.

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 SEVEN 3/4 - 16 NF X 3 INCH BOLTS AND 3/4 - 16 NF NYLON LOCK NUTS. NOTE THAT ONE OF THE TOP BOLT HOLES IS NOT USED TO LEAVE CLEARANCE FOR THE CHAIN.

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 SEVEN 3/4 - 16 NF X 3 INCH BOLTS AND 3/4 - 16 NF NYLON LOCK NUTS. NOTE THAT ONE OF THE TOP BOLT HOLES IS NOT USED TO LEAVE CLEARANCE FOR THE CHAIN.

FULLY TIGHTEN THE FOURTEEN 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 AND THE CHAIN IS TAUT.

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 DUNNAGE.

NOTE

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

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 CROSSRAIL CHAINS HAVE BEEN ROUTED THROUGH THE CARRIAGES.

SET THE CROSSRAIL 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 SEVEN 3/4 - 16 NF X 3 INCH BOLTS AND 3/4 - 16 NF NYLON LOCK NUTS. NOTE THAT ONE OF THE TOP BOLT HOLES IS NOT USED TO LEAVE CLEARANCE FOR THE CHAIN.

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 SEVEN 3/4 - 16 NF X 3 INCH BOLTS AND 3/4 - 16 NF NYLON LOCK NUTS. NOTE THAT ONE OF THE TOP BOLT HOLES IS NOT USED TO LEAVE CLEARANCE FOR THE CHAIN.

FULLY TIGHTEN THE FOURTEEN 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 AND THE CHAIN IS TAUT.

INSTALLATION INSTRUCTIONS

REFER TO THE HYDRAULIC/PNEUMATIC PLUMBING DIAGRAMS ENCLOSED FOR THE FOLLOWING PLUMBING ASSEMBLIES:

ASSEMBLE THE SIX HYDRAULIC HOSES TO THE FORE AND AFT END OF THE UNIT. (CONNECTIONS BETWEEN THE MAIN SIDE TRACK TO THE CARRIAGES). REFER TO PLUMBING DIAGRAMS.

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

ASSEMBLE THE THREE HYDRAULIC HOSE ASSEMBLIES AND THE AIR LINE FROM THE CONTROL CONSOLE TO THE MAIN SIDE TRACK MANIFOLD. REFER TO TRACK MANIFOLD PLUMBING DIAGRAM.

CONNECT HOSES AND AIRLINES INSIDE OF CARRIAGES AS SHOWN IN PLUMBING DIAGRAMS. INSURE ALL HYDRAULIC CONNECTIONS ARE PROPERLY TIGHTENED.

REFER TO THE ELECTRICAL DIAGRAMS FOR THE FOLLOWING ASSEMBLIES:

MOUNT THE TRACK JUNCTION BOX ON THE MAINSIDE TRACK TO THE RIGHT OF THE HYDRAULIC MANIFOLD BLOCK USING HARDWARE PROVIDED.

CONNECT THE PLUGS FROM THE TRACK JUNCTION BOX TO THE TRACK LEVELER. THESE ARE LABELED FORE AND AFT.

CONNECT ALL OTHER PLUGS WITHIN CARRIAGES AS LABELED AND DEPICTED IN ELECTRICAL CABLE ROUTING DIAGRAM.

CONNECT CABLES FROM POST #1 AND POST #3 INTO TRACK JUNCTION BOX AS SHOWN IN TERMINAL STRIP WIRING DIAGRAM.

CONNECT CABLE FROM CONTROL CONSOLE TO TRACK JUNCTION BOX TERMINALS AS SHOWN IN TERMINAL STRIP WIRING DIAGRAM.

ELECTRICAL FEED: IMPORTANT

• AT THIS TIME HAVE A QUALIFIED LICENSED ELECTRICIAN CONNECT THE POWER SUPPLY TO THE CONTROL CONSOLE. ATTACH AIR SUPPLY TO CONSOLE AT THIS TIME AS WELL. (80 PSI MINIMUM)

IMPORTANT

FAMILIARIZE YOURSELF WITH THE CONTROL CONSOLE FUNCTIONS. (SEE LIFTING AND RAISING)

PRE-STARTUP

- INSURE ALL HYDRAULIC CONNECTIONS ARE PROPERLY TIGHTENED.
- VERIFY THE MOTOR ROTATION. CLOCKWISE AS VIEWED FROM THE TOP OF THE MOTOR. INCOMING POWER FEEDS MAY NEED TO BE ALTERNATED TO ACHIEVE THIS.
- ENSURE ALL DEBRIS AND PERSONEL HAVE BEEN REMOVED FROM THE LIFTING AREA...
- TURN THE KEYED POWER SWITCH TO ON. 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.

PRESS THE LOWER BUTTON TO ENSURE THAT THE LOCKS RELEASE AND THE LIFT LOWERS TO THE FLOOR.

RAISE LIFT FULLY AND LET REST FOR A FEW MINUTES.

BLEED ALL THE CYLINDERS AT THE TOP BY LOOSENING TOP FITTINGS SLIGHTLY UNTIL AIR BUBBLES ESCAPE. RETIGHTEN ALL FITTINGS. RAISE SLIGHTLY AND BLEED AGAIN.

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

INSTALLATION INSTRUCTIONS

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.

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.

AFTER THE UNIT IS RUNNING PROPERLY, MATCH DRILL AND ANCHOR ALL THE BASE PLATES TO THE FLOOR USING ANCHOR BOLTS PROVIDED. REFER TO ANCHOR BOLT INSTALLATION INSTRUCTIONS ENCLOSED.

SAFETY TIPS

PLEASE POST THE SAFETY TIPS (COPY IN BACK OF MANUAL) IN A PLACE WHERE THE OPERATOR WILL BE CONSTANTLY REMINDED OF THEIR IMPORTANCE. ALWAYS REFER TO THE LIFT'S 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. ON-OFF KEYED ROTARY SWITCH:

• TURNS CONTROL POWER TO THE UNIT ON OR OFF. (THIS IS NOT A DISCONNECT SWITCH OR A LOCKOUT/TAGOUT DEVICE, WHICH IS THE RESPONSIBILITY OF THE INSTALLER/CUSTOMER)

2. UP BUTTON:

 WHEN PRESSED, ALLOWS PRESSURIZED FLUID TO FLOW TO THE MAIN LIFTING CYLINDERS, THEREBY RAISING THE LIFTING TRACKS.

3. DOWN BUTTON:

 WHEN PRESSED, ALLOWS PRESSURIZED FLUID TO BE RELEASED FROM THE MAIN LIFTING CYLINDERS, THEREBY LOWERING THE LIFTING TRACKS UNTIL THE BUTTON IS RELEASED.

4. PARK BUTTON (W/ YELLOW LIGHT):

• THIS BUTTON IS ONLY FUNCTIONAL WHEN ILLUMINATED, INDICATING THAT THE LIFT IS IN A STATE TO BE "PARKED" ON THE MECHANICAL LOCKS. WHEN PRESSED, THE HYDRAULIC PRESSURE TO THE LIFT IS RELEASED, ENABLING THE OPERATOR TO LOWER THE LIFT COMPLETELY ON THE MECHANICAL LOCKS OR TO THE FLOOR WITH ZERO PRESSURE IN THE LIFTING CYLINDERS.

5. POWER ON INDICATOR LIGHT (GREEN):

• WHEN ILLUMINATED, INDICATES UNIT IS ON.

6. LOW AIR INDICATOR LIGHT (RED):

 WHEN ILLUMINATED, INDICATES NO AIR PRESSURE PRESENT TO LIFT. LACK OF AIR TO THE LIFT WILL DISABLE AIR LOCK RELEASE AND PREVENT LOWERING OF LIFTING TRACKS.

7. OUT OF PARALLEL INDICATOR LIGHT (RED):

• WHEN ILLUMINATED, INDICATES LIFTING TRACKS HAVE GONE BEYOND AN ACCEPTABLE TOLERANCE OF LEVEL. LIFT WILL BE DISABLED UNTIL TRACKS ARE BROUGHT BACK WITHIN AN ACCEPTABLE LEVEL TOLERANCE. USE OF MANUAL LOWERING AND RAISING VALVES CAN ACCOMPLISH THIS.

8. CHECK FILTER INDICATOR LIGHT (RED):

• WHEN ILLUMINATED CONSTANTLY (NOT MOMENTARILY), INDICATES THAT THE MAIN FILTER ON THE RESERVOIR NEEDS TO BE CLEANED OR REPLACED.

MANUAL OVER-RIDE CONTROLS:

WITHIN THE CONTROL CONSOLE IS A SELECTOR VALVE, HAND PUMP, MANUAL LOWERING VALVES. IN THE EVENT THAT THERE IS A POWER LOSS TO THE LIFT OR THE LIFT IS OUT OF LEVEL, THESE CONTROLS CAN BE USED TO OVER-RIDE THE STANDARD OPERATING CONTROLS ON THE LIFT.

HAND PUMP: USE THIS IN CONJUNCTION WITH THE SELECTOR VALVE. SELECT EITHER THE FORE OR AFT AND THE HAND PUMP WILL RAISE THE CHOOSEN SIDE. USE THIS TO RAISE THE LIFT OFF A LOCK DURING A POWER OUTAGE.

MANUAL LOWERING VALVES: THESE RED HANDLED VALVES LOWER THE LIFT. PULL EITHER THE FORE OR AFT VALVE TO LOWER. NOTE THAT THESE VALVES DO NOT RELEASE THE AIR LOCKS, WHICH NEED TO BE MANUALLY PULLED BACK OR RELEASED WITH AIR. CONNECT AIR SUPPLY DIRECTLY TO AIRLINE TO TRACKS IF AIR LOCK RELEASE BYPASS IS NEEDED.

PRE OPERATION CHECK LIST

TRAINED OPERATOR

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

ABSENCE OF OBSTRUCTIONS

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

VISUAL INSPECTION

 THOROUGHLY INSPECT THE UNIT WITH A TRAINED EYE, NOTING ANY PROBLEM AREAS. INSPECT THE FLOOR AND THE ANCHORING FASTENERS AS WELL. REPORT ANY QUESTIONABLE ITEMS.

NO LOAD PERFORMANCE CHECK

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

PREVIOUS DAY'S OPERATION REPORT

• VERIFY WITH SUPERVISOR THAT THERE 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

PRE-OPERATION & VEHICLE POSITIONING

- PERFORM PRE-OPERATION CHECK LIST ITEM BY ITEM.
- POSITION THE VEHICLE ONTO THE UNIT SO THAT ALL TIRES ARE SECURELY ON THE TRACKS. CENTER THE VEHICLE SO THAT THE WEIGHT IS DISTRIBUTED EVENLY FORE AND AFT.
- PLACE THE WHEEL CHOCKS IN A POSITION SO THAT THE VEHICLE WILL BE SECURE ON THE UNIT. FIGURE 13

TO RAISE

- INSPECT THE LIFTING AREA TO INSURE THAT ALL PERSONNEL AND DEBRIS HAVE BEEN CLEARED FROM THE LIFTING AREA.
- TURN ON THE UNIT (IF NOT ALREADY ON).
- PRESS THE UP BUTTON AND RELEASE WHEN DESIRED ELEVATION IS ACHIEVED WHILE THE PARK BUTTON IS ILLUMINATED.
- PRESS THE PARK BUTTON TO LOWER THE LIFT SUPPORTS ONTO THE MECHANICAL LOCKS.

NOTICE:

<u>ALWAYS</u> LOWER THE UNIT ONTO THE MECHANICAL SAFETY LOCKS BEFORE BEGINNING WORK ON VEHICLES.

TO LOWER

- INSPECT THE LIFTING AREA TO INSURE THAT ALL PERSONNEL AND DEBRIS HAVE BEEN CLEARED FROM THE LIFTING AREA.
- RAISE UNIT APPROXIMATELY TWO INCHES.
- PRESS THE DOWN BUTTON AND LOWER UNIT TO THE DESIRED WORKING HEIGHT OR ALL THE WAY DOWN TO THE FLOOR.

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, OIL, SAND, SALT, 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 III 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 OR CRACKS.
- CLEAN AND LUBRICATE CHAINS WITH A LIGHT CHAIN LUBRICANT. (DO NOT USE HEAVY GREASE) INSPECT CHAINS FOR ANY SIGN OF UNUSUAL OR EXCESSIVE WEAR.

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/CLEAN HYDRAULIC FLUID FILTER ELEMENT.
- INSPECT ALL FLANGE BEARINGS FOR UNUSUAL OR EXCESSIVE WEAR.
- PERFORM THE DAILY, WEEKLY, AND MONTHLY MAINTENANCE.

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
	NOT RAISING LOAD	
LOW HYDRAULIC FLUID		T. DISCONNECT POWER SUPPLY, OPEN CONSOLE. EL AT SIGHT GLASS ON RESERVOIR.
PRESSURE RELIEF ADJUSTMENT	SET @ 2700 PSI. REFER TO P	OWER UNIT SPECIFICATIONS.
UNIT OVERLOADED	VEHICLE TO HEAVY TO BE	RAISED.
WRONG ROTATION OF MOTOR	REVERSE POWER LINES. RC OF MOTOR. (HAVE AN ELEC	OTATION TO BE CLOCKWISE AS VIEWED FROM TOP CTRICIAN SERVICE)
VEHICLE NOT CENTERED ON UNIT	CENTER VEHICLE WEIGHT	ON TRACKS.
LOW VOLTAGE	HAVE AN ELECTRICIAN SEI	RVICE.
	NOT LOWERING	
LOCKS ENGAGED		RAISE UNIT APPROX. 2 INCHES. THEN PRESS THE
	DOWN BUTTON.	
OBSTRUCTION UNDER UNIT OR VEHICLE	REMOVE OBSTRUCTION.	
NO AIR PRESENT	NO AIR IS PRESENT TO REL REGULATOR IN POWER UNI	EASE LOCKS. VERIFY THAT PRESSURE IT IS SET TO 80 PSI.
RAIS	ING OR LOWERING QUE	ESTIONS
RAISING: UNIT STOPS THEN ONE END RAISES, BEGINS TO RAISE NORMALLY.		THE FORE / AFT END OF THE UNIT IS LOW WILL STOP, RAISE THE LOW END TO LEVEL THE E NORMALLY.
LOWERING : UNIT STOPS LOWERING, THEN OF LOWERS, THEN UNIT BEGINS TO LOWER NOR		THE FORE / AFT END OF THE UNIT IS LOW NIT WILL STOP, LOWER THE HIGH END TO LEVEL LOWER NORMALLY.
UNIT CONSTANTLY MAKING AUTO ADJUSTM	ENTS. CENTER VEHICLE WEIGHT	ON TRACKS.
	- OR -	
	FLUID LEVEL IN AUTO LEVI	ELER IS EITHER TOO LOW OR TOO HIGH

TO BE USED IN CONJUNCTION WITH DRAWING NUMBER 110-004-090

- 1. ALL ELECTRICAL EQUIPMENT AND WIRING SHALL CONFORM TO ANSI/NFP 70 1990, NATIONAL ELECTRICAL CODE.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE OWNER / EMPLOYER TO PROVIDE NECESSARY LOCKOUTS / TAGOUTS OF ENERGY SOURCES IN ACCORDANCE WITH ANSI Z244, 1 1982, BEFORE ATTEMPTING REPAIRS.
- 3. ALL FIELD WIRING / ELECTRICAL RELATED LABOR SHALL BE PERFORMED BY CERTIFIED ELECTRICIANS.
- 4. UNIT MUST BE PROPERLY GROUNDED IN ACCORDANCE TO NEC ARTICLE 250 (GROUNDING), AND APPLICABLE LOCAL CODES.
- 5. 11 DENOTES WIRE NUMBERS.
- 6. LABEL MARKERS SHALL BE PLACED ON ALL WIRES (BOTH ENDS), SWITCHES, RELAYS, LAMPS, ETC., ALL WIRES TO BE INSTALLED WITH TERMINAL LUGS. ALL CONNECTIONS SHALL BE WRENCH TIGHT.
- 7. THE FOLLOWING COLOR WIRES SHALL BE RESERVED.

 GREEN: ALL EQUIPMENT GROUNDING CONDUCTORS.

WHITE: ALL NEUTRAL CONDUCTORS.

- 8. VERIFY PROPER MOTOR WIRING FOR PROPER VOLTAGE & ROTATION AT INITIAL START-UP.
- 9. TRANSFORMER TERMINALS TO BE WIRED AND FUSED ACCORDING TO CUSTOMER'S POWER SUPPLY. SEE TABLES ABOVE FOR FUSE SIZES, HEATER ELEMENT SIZES, & TRANSFORMER WIRING.
- 10. ALL FUSES TO BE CLASS CC TIME DELAY TYPE.

SERVICE CHART

MODEL TR-110	
SERIAL NUMBER:	
DATE OF INSTALLATION:	

DATE	PART REPLACED / SERVICED	SERVICE COMPANY	SERVICED BY

MAINTENANCE CHART

DATE	MAINTENANCE PERFORMED	SERVICE COMPANY	SERVICED BY

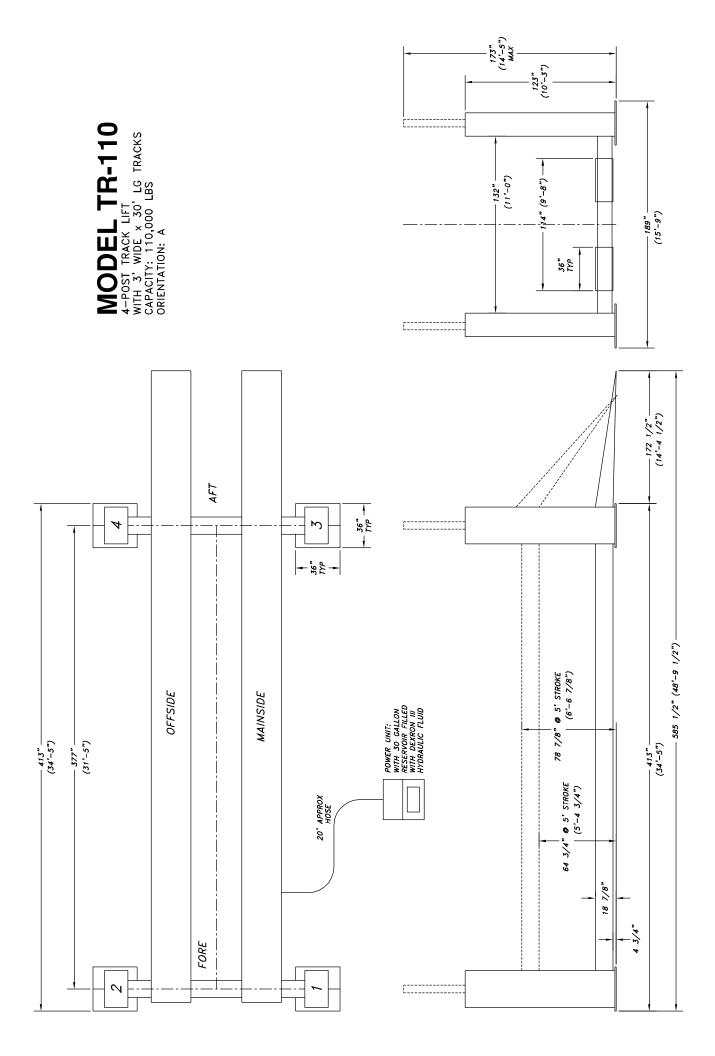
MOHAWK

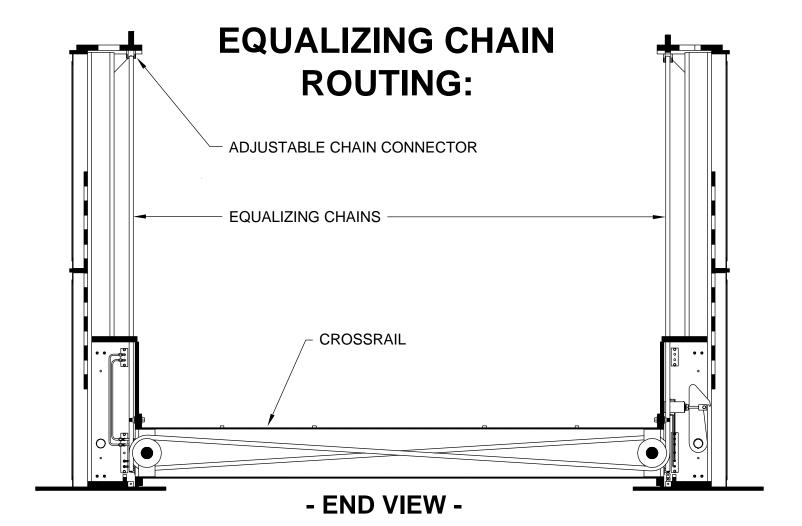
MADE IN THE U.S.A.

MODEL TR-110

STRUCTURAL ASSY DIAGRAMS







CHAIN ADJUSTMENT

Lower the unit completely.

Tighten the chain connectors at the top of the posts.

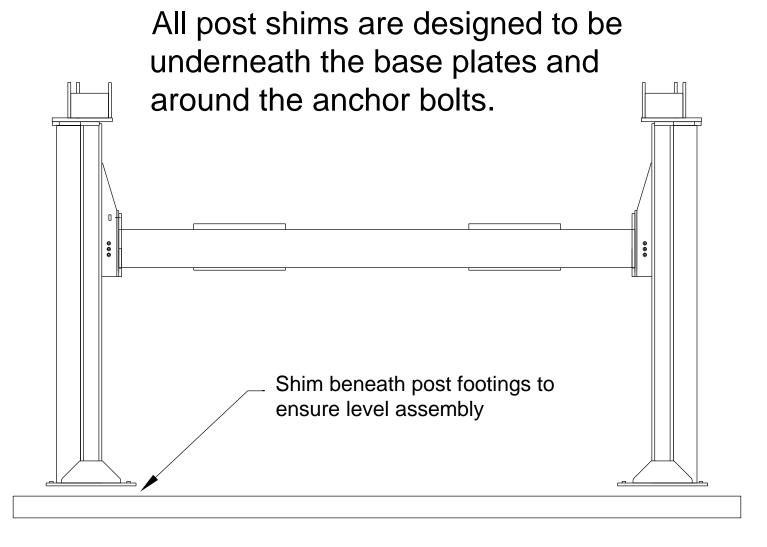
The adjustment is complete when both equalizing chains are taut.

POST SHIMMING











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

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

MAXIMUM TENSILE AND SHEAR CAPACITY FOR STATIC LOADS

	LIMESTONE UNREINFORCED STONE AGGREGATE CONCRETE						Unreinforced						
		Aggregat	E	ZINC PLATED CARBON STEEL				Lightweight (Idealite)					
Anchor	Embed-	2000) psi	Embed-	300	0 psi	500	0 psi	7000	O psi	Embed-	5000) psi
& Hole	ment	Tension	Shear	ment	Tension	Shear	Tension	Shear	Tension	Shear	ment	Tension	Shear
Size	(in)	(lbs)	(lbs)	(in)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(in)	(lbs)	(lbs)
1/4	1 1/8	1132	1211	1 1/8	1320	1751	1760	2316	2464	2494	1 1/2	1861	1947
1/4	1 3/4	1256	1211	1 1/2	1856	1751	2473	2316	3462	2494	•	•	•
5/16	1 1/4	1308	1210	1 1/4	2057	1839	2742	2530	3939	3439	1 1/2	2493	3064
5/16	2	1181	1210	1 3/4	2389	1839	3185	2530	4459	3439	•	•	•
3/8	1 1/4	994	1223	1 1/2	2876	4286	3834	5213	5368	5658	1 3/4	3125	4289
3/8	4	1728	1223	4	3488	4286	4650	5213	6510	5658	•	•	•
1/2	1 3/4	1542	3009	2 1/4	3473	7138	5789	10748	8105	11550	2 1/4	4778	9833
1/2	6	2695	3009	5	4809	7138	8015	10748	11221	11550	•	•	•
5/8	•	•	•	3 1/2	7582	10719	12636	15583	17690	16700	2 1/2	6455	12500
5/8	•	•	•	4 3/4	9179	10719	15299	15583	21419	16700	•	•	•
3/4	•	•	•	3	11579	15537	19299	21000	27019	23103	3 1/2	17293	19050
3/4	•	•	•	7	15444	15537	25740	21000	36036	23103	•	•	•
7/8	•	•	•	4 1/2	15266	•	25444	25099	33622	28718	•	•	•
7/8	•	•	•	7	16992	•	28320	25099	39648	28718	•	•	•
1	•	•	•	5 1/2	16351	•	27252	33083	38153	35700	4 1/2	21616	31666
1	•	•	•	7	17837	•	29728	33083	41619	35700	•	•	•
Source		1					2					2	

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

EDGE DISTANCE AND SPACING REQUIREMENTS

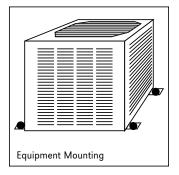
Embedment (E) in	Spacing	Edge Distance		
Anchor Diameters (d)				
E < 6d (shallow)	3.50E	1.75E		
$6d \le E \le 8d \text{ (standard)}$	2.00E	1.00E		
8d < E (deep)	1.50E	0.75E		

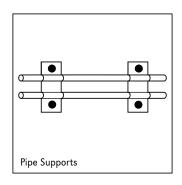
Notes:

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

Typical Applications







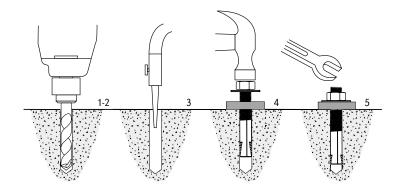


ORDER INFORMATION

C l	Anchor	Minimum	Thread	Quantity
Catalog	Diameter &	Embed-	Length	Box/
Number	Length (in)	ment (in)	(in)	Carton
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

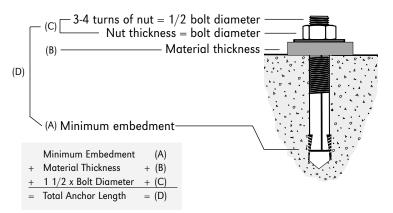
INSTALLATION INSTRUCTIONS

- 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. Insert anchor into hole until washer rests solidly against fixture.
- 5. Tighten the nut 3 to 5 turns past the hand tight position.

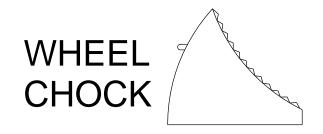


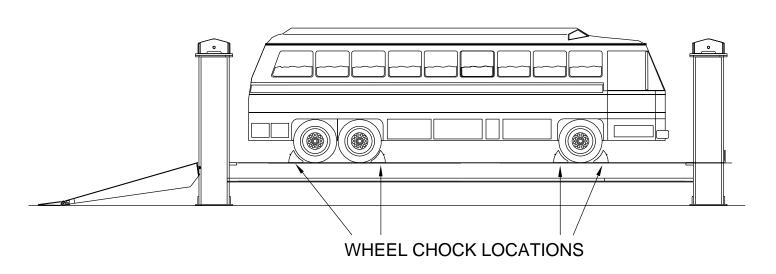
^{*} Always wear safety glasses. Follow the drill manufacturer's safety instructions. Use only solid carbide-tipped drill bits meeting ANSI B212.15 diameter standards as listed on back cover.

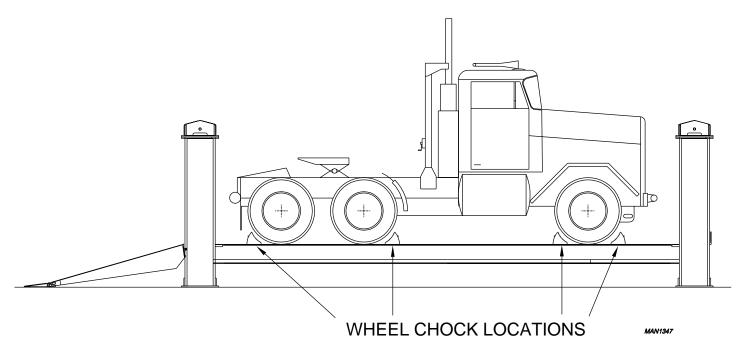
LENGTH SELECTION GUIDE



WHEEL CHOCK PLACEMENT







MOHAWK

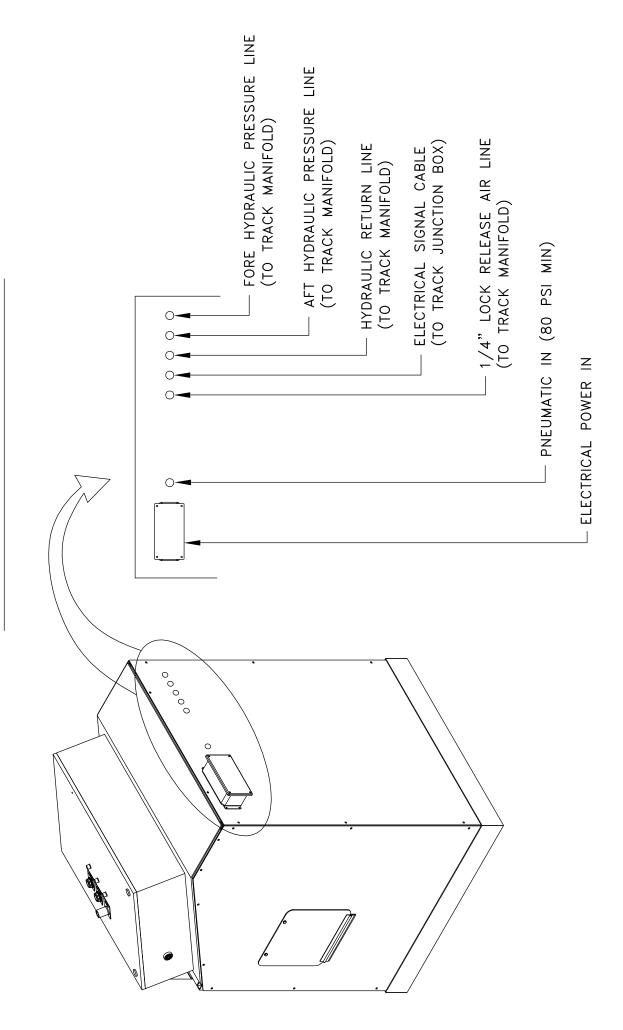
MADE IN THE U.S.A.

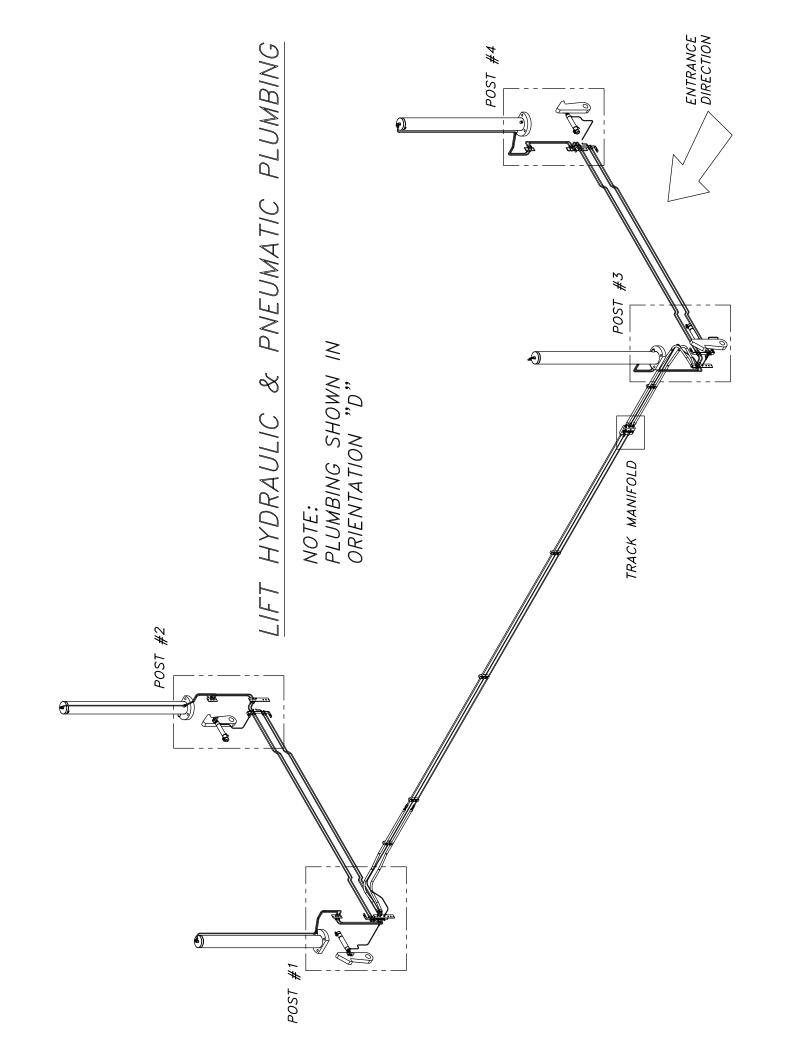
MODEL TR-110

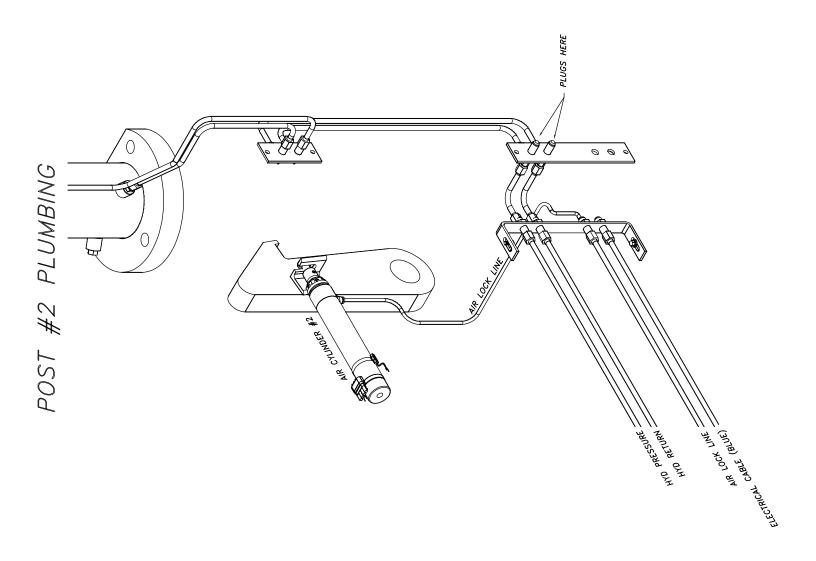
HYDRAULIC & PNEUMATIC DIAGRAMS

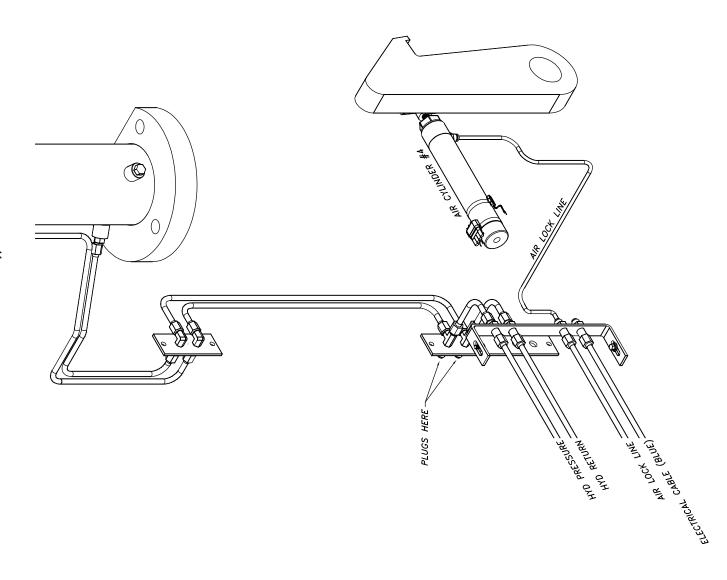


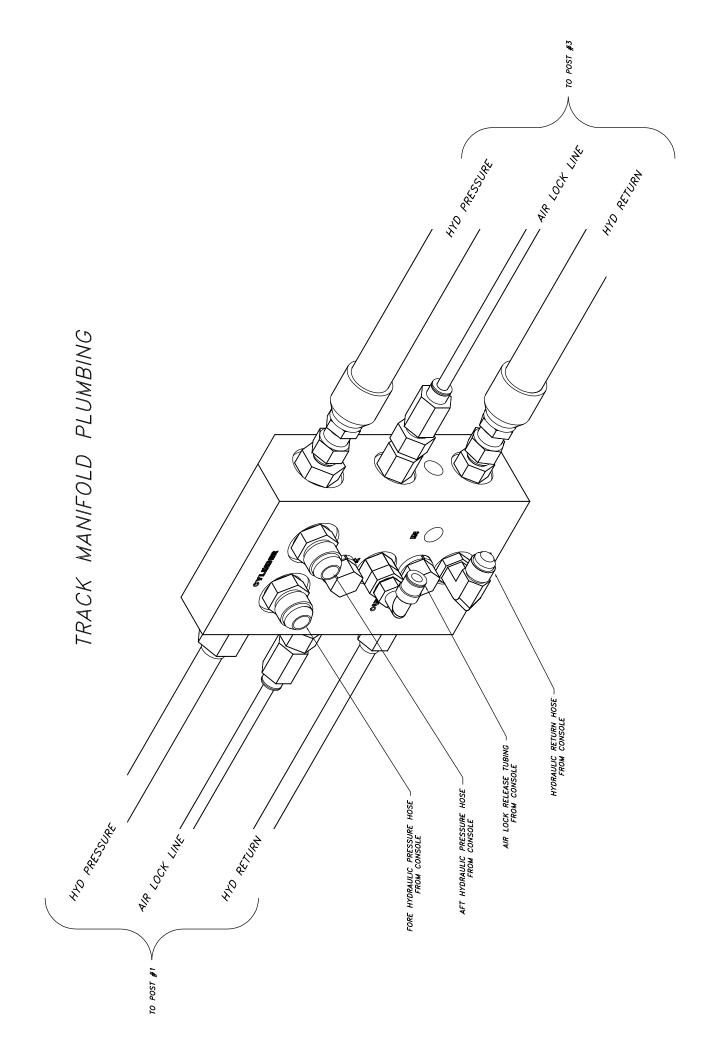
CONSOLE CONNECTIONS

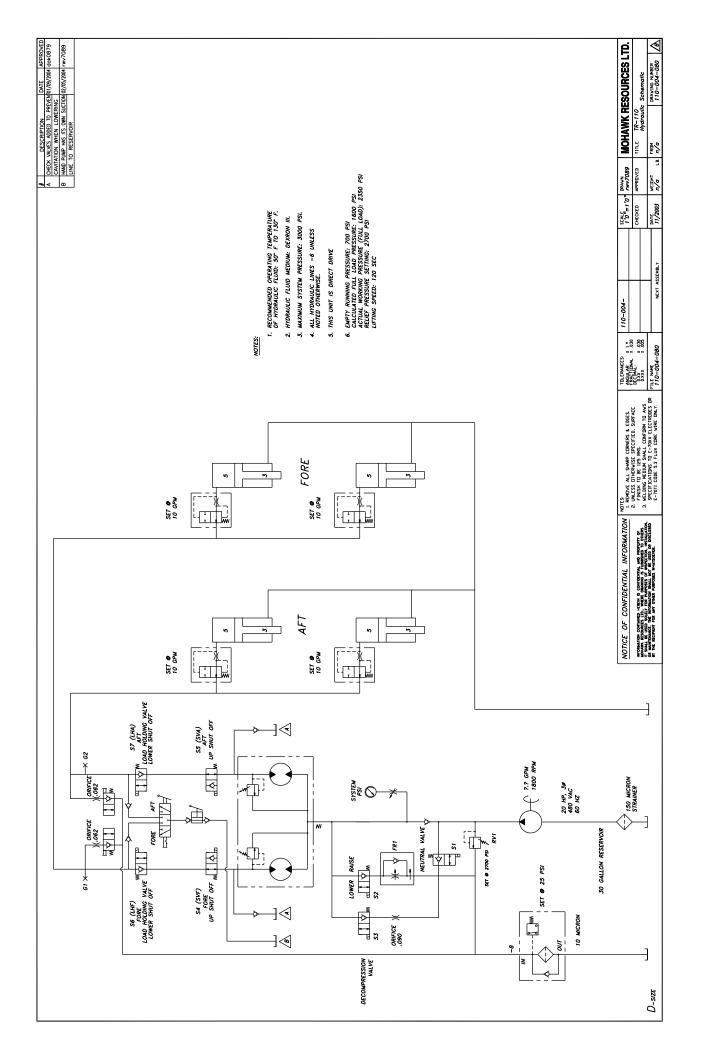


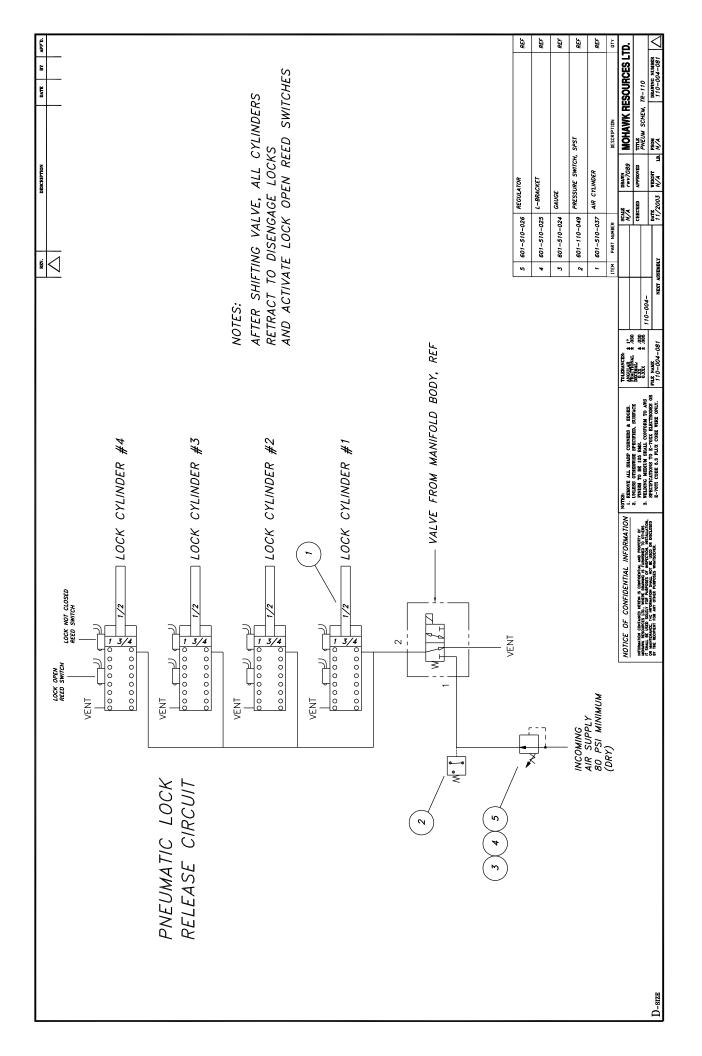












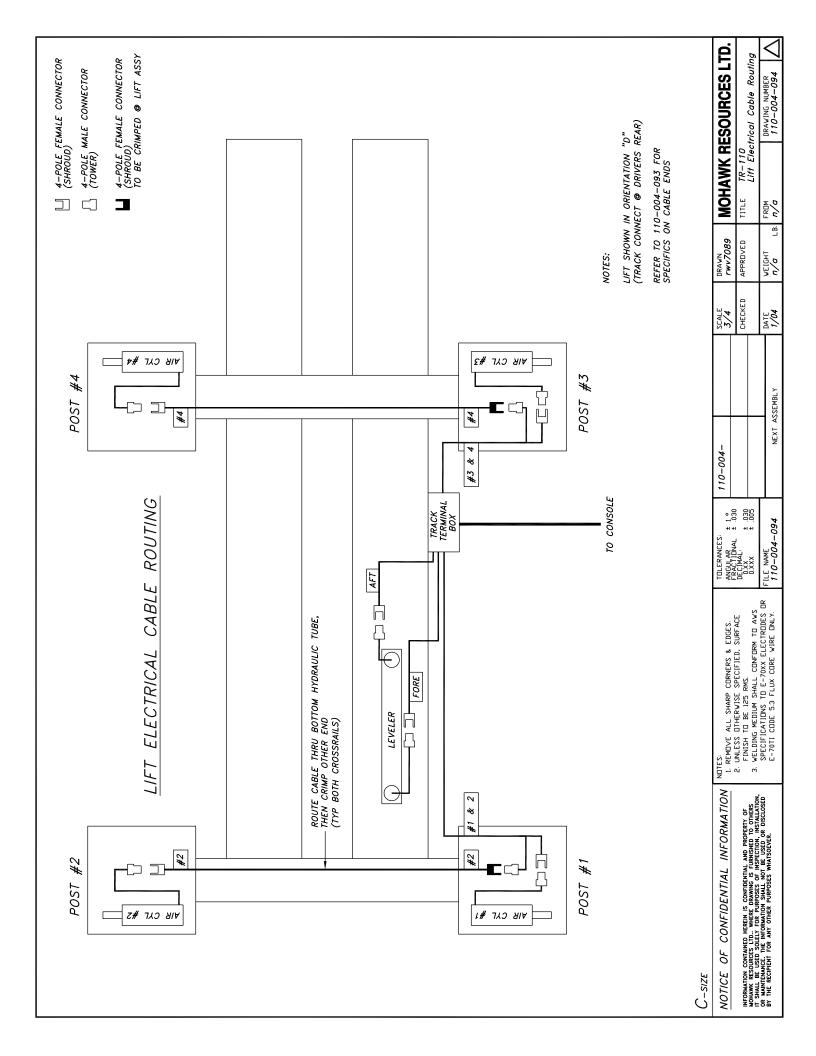
MOHAWK

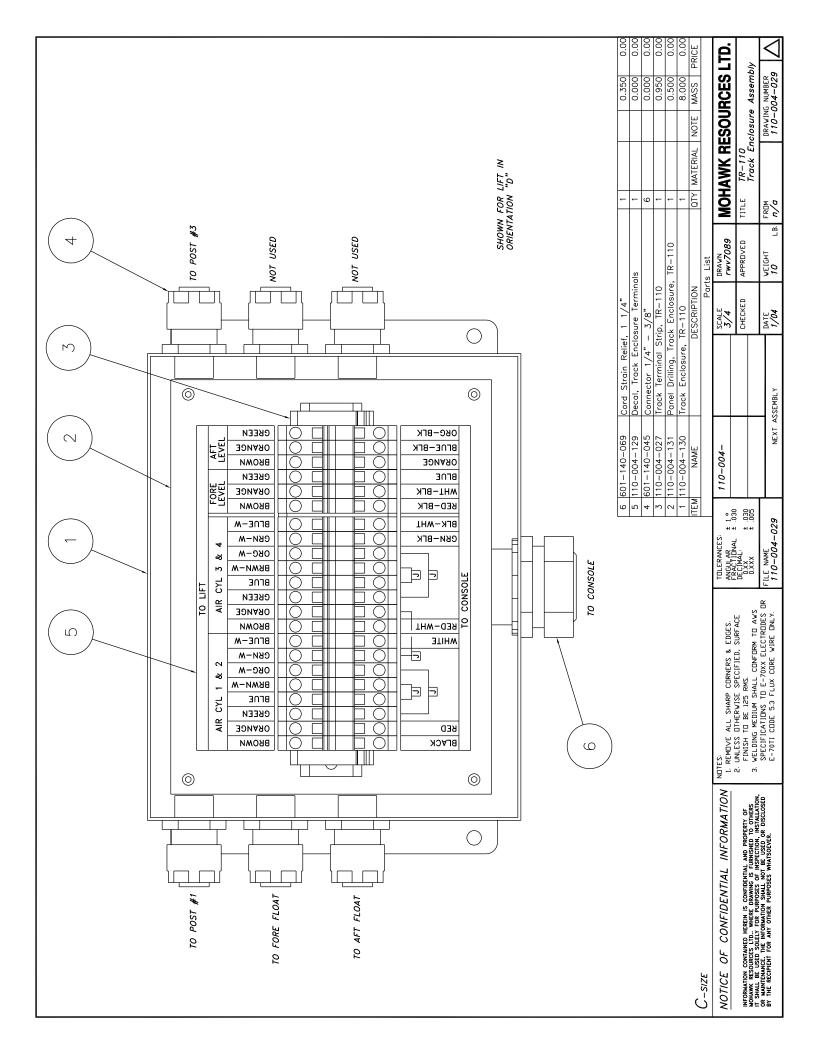
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MODEL TR-110

ELECTRICAL DIAGRAMS







TR-110 CONTROL PANEL FUNCTIONS

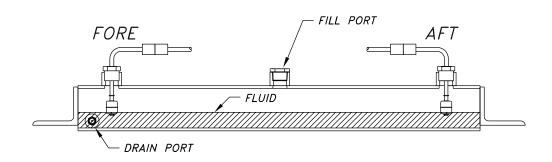
POWER	LOW AIR	OUT OF PARALLEL	CHECK FILTER
5	6	7	8

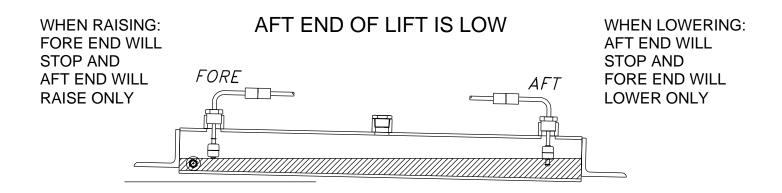
OFF ON	RAISE	LOWER	PARK
1	2	3	4

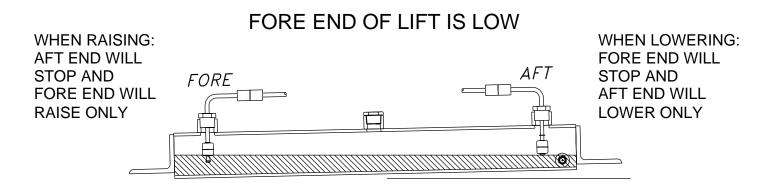
- 1. On/Off Keyed Switch
- 2. Raise Button
- 3. Lower Button
- 4. Park Button
- 5. Power On Indicator
- 6. Low Air Indicator
- 7. Out of Parallel Indicator
- 8. Change Filter Indicator

TRACK LEVELER FUNCTIONS

SYSTEM IS LEVEL

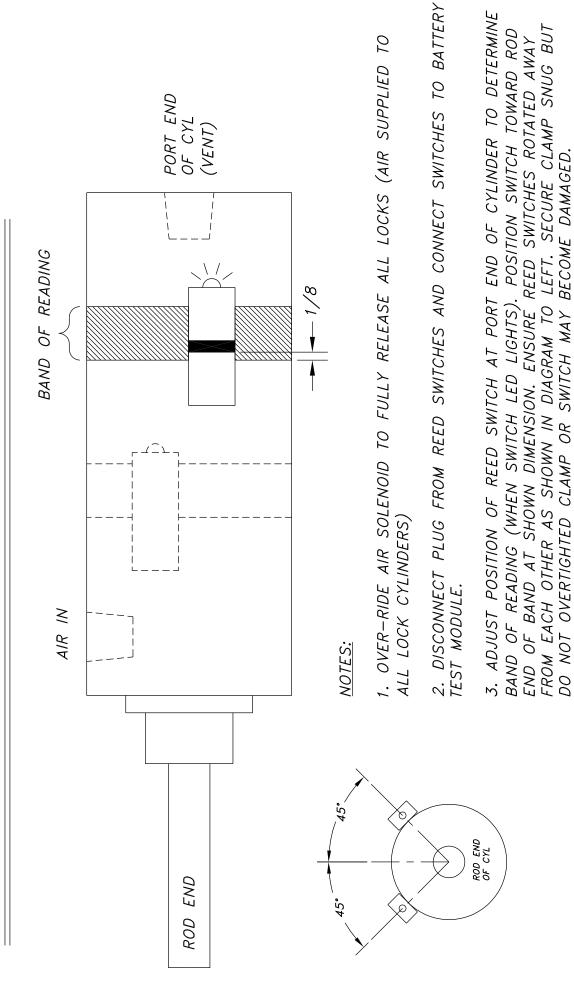






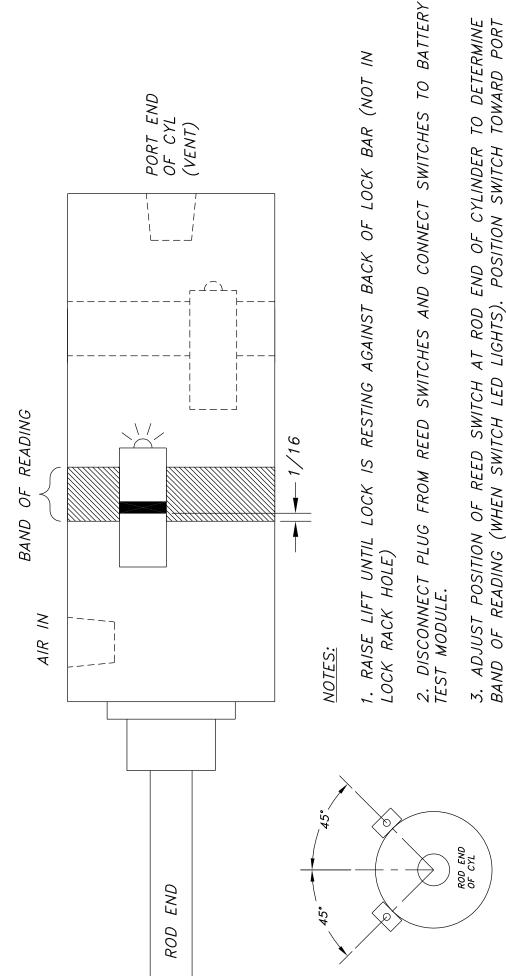
USE ANTI-FREEZE AS FLUID REPLACEMENT ONLY!!

REED SWITCH POSITIONING: DETECT LOCKS OPEN

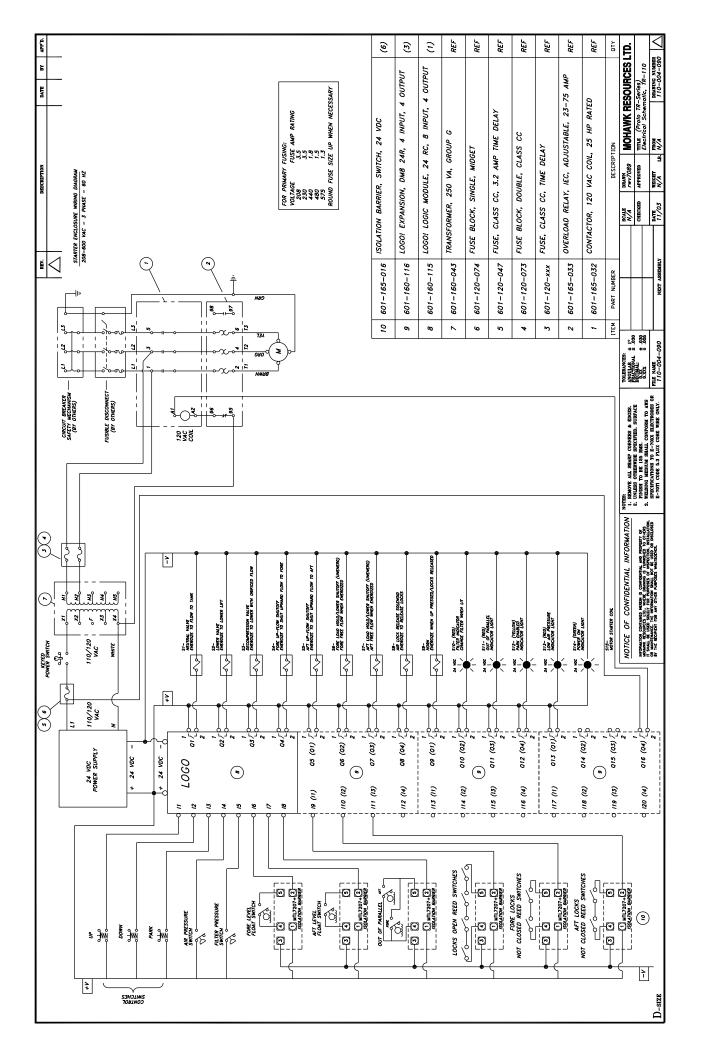


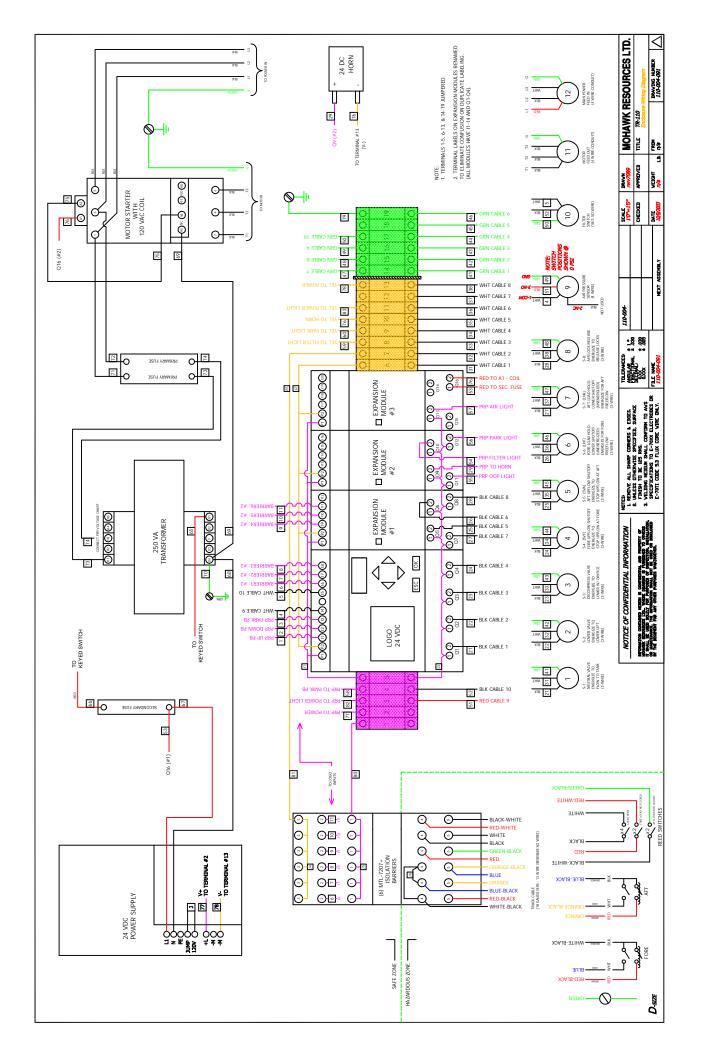
4. VERIFY ALL REED SWITCHES ADJUSTED PROPERLY BY LOWERING LIFT WITH

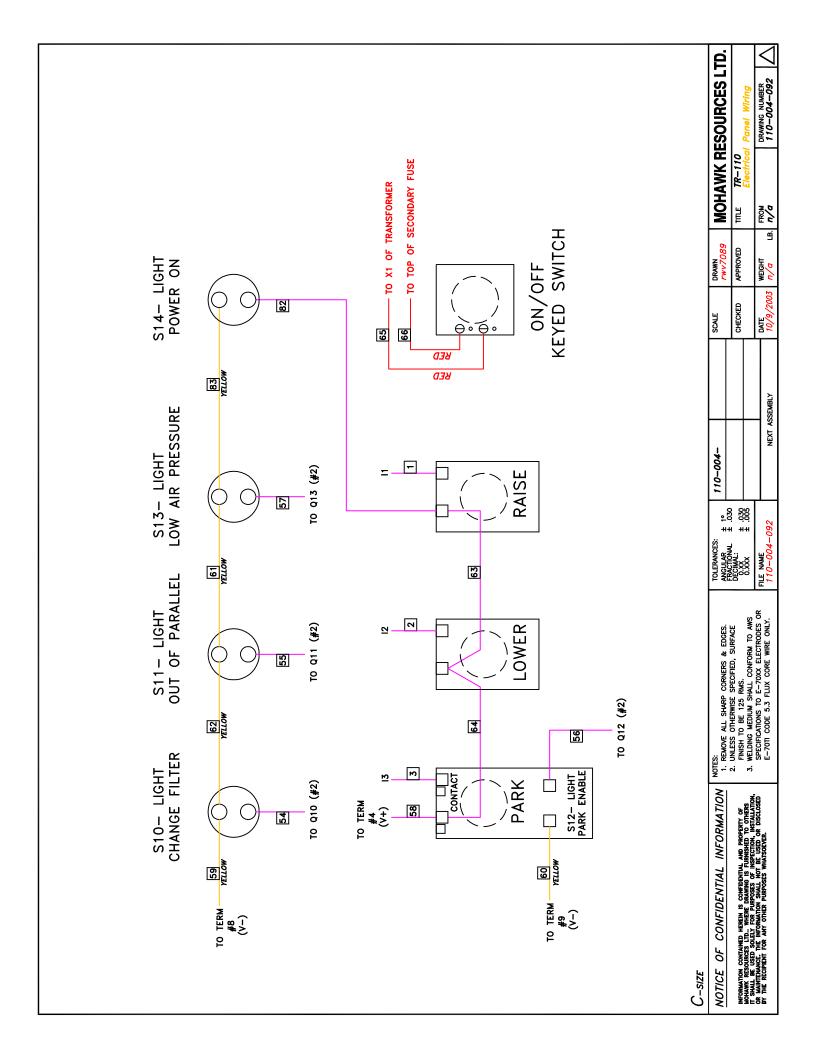
REED SWITCH POSITIONING: DETECT LOCKS NOT CLOSED

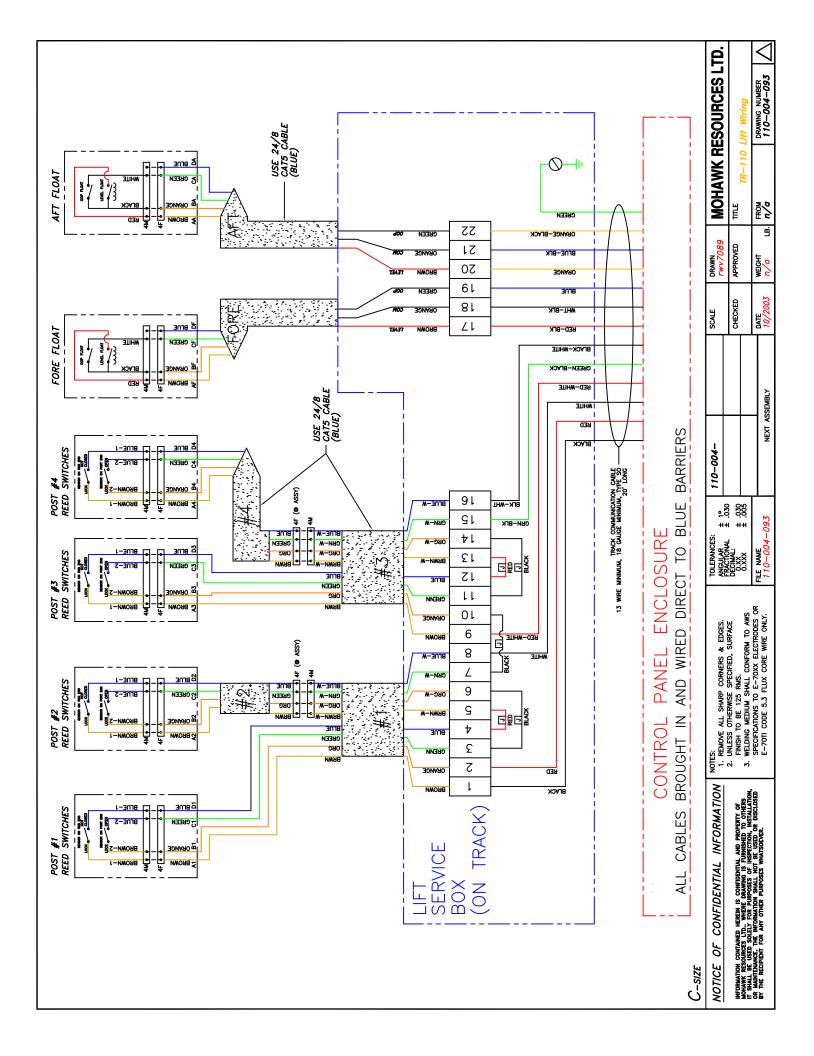


- BAND OF READING (WHEN SWITCH LED LIGHTS). POSITION SWITCH TOWARD PORT END OF BAND AT SHOWN DIMENSION. ENSURE REED SWITCHES ROTATED AWAY FROM EACH OTHER AS SHOWN IN DIAGRAM TO LEFT. SECURE CLAMP SNUG BUT DO NOT OVERTIGHTED CLAMP OR SWITCH MAY BECOME DAMAGED. 3. ADJUST POSITION OF REED SWITCH AT ROD END OF CYLINDER TO DETERMINE
- 4. VERIFY ALL REED SWITCHES ADJUSTED PROPERLY BY RAISING UNTIL LOCKS FALL INTO NEXT HIGHER LOCK RACK HOLE. YELLOW LIGHT ON PARK BUTTON SHOULD ILLUMINATE. ILLUMINATION WILL BE LOST WHEN LIFT RAISED AND LOCK IS HIDDEN BEHIND LOCK RACK.









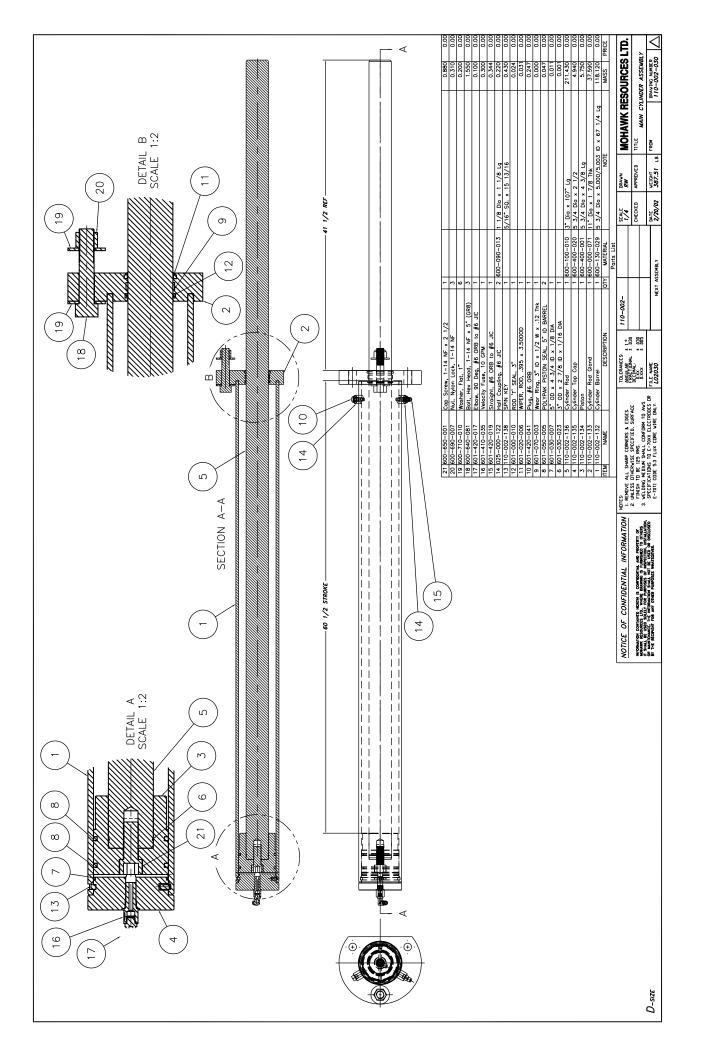
MOHAWK

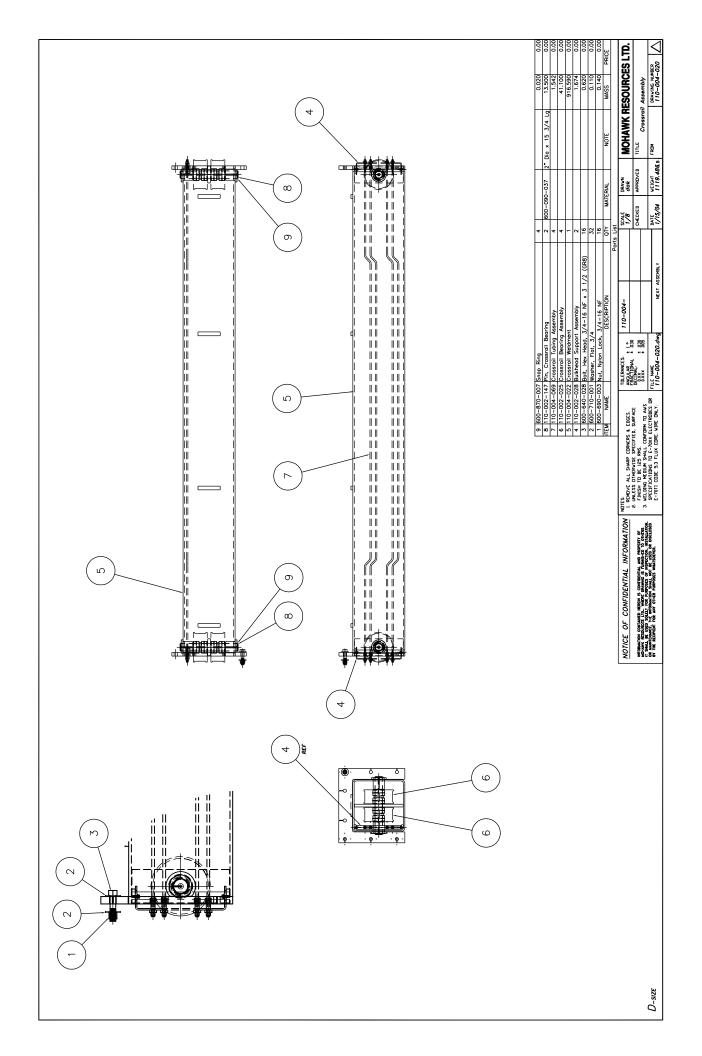
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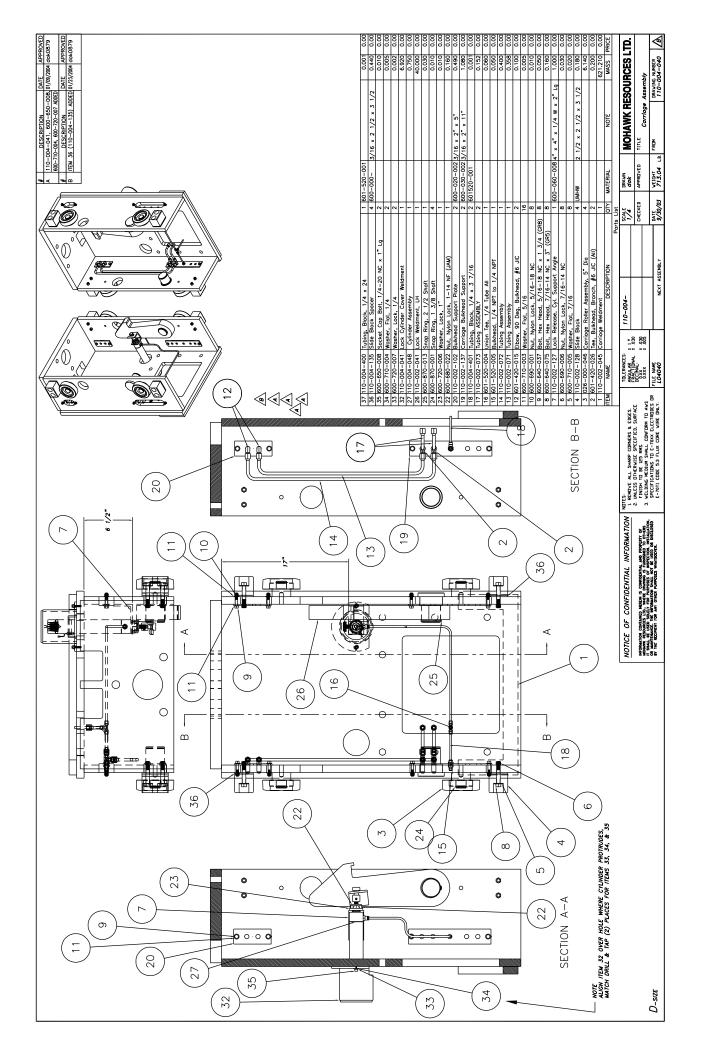
MODEL TR-110

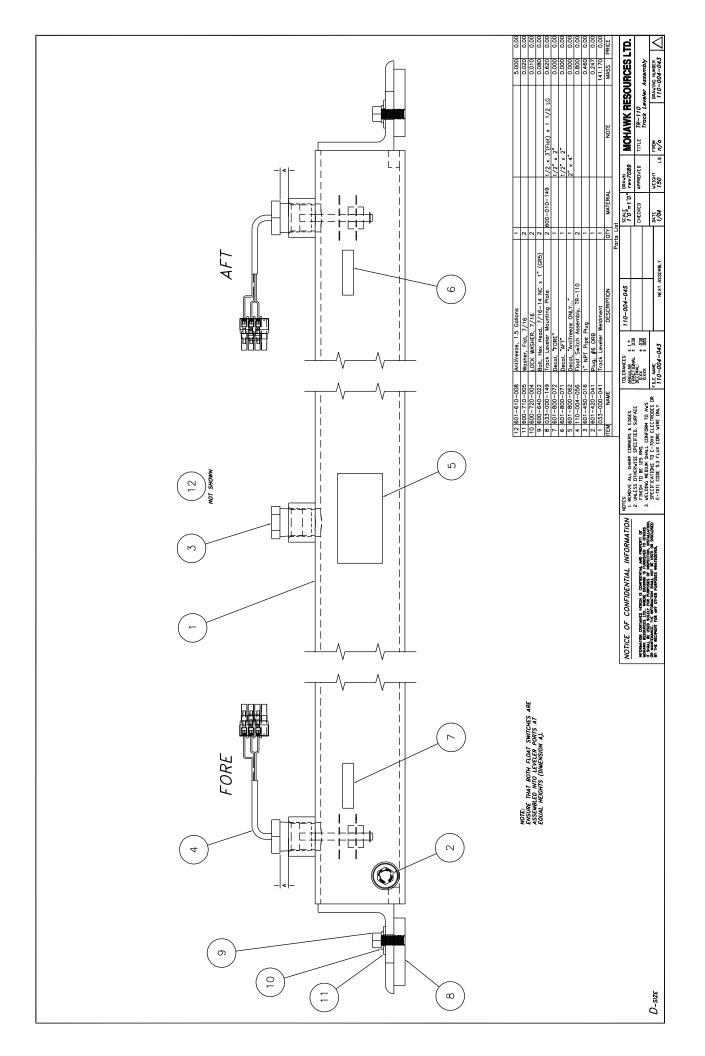
PARTS DRAWINGS

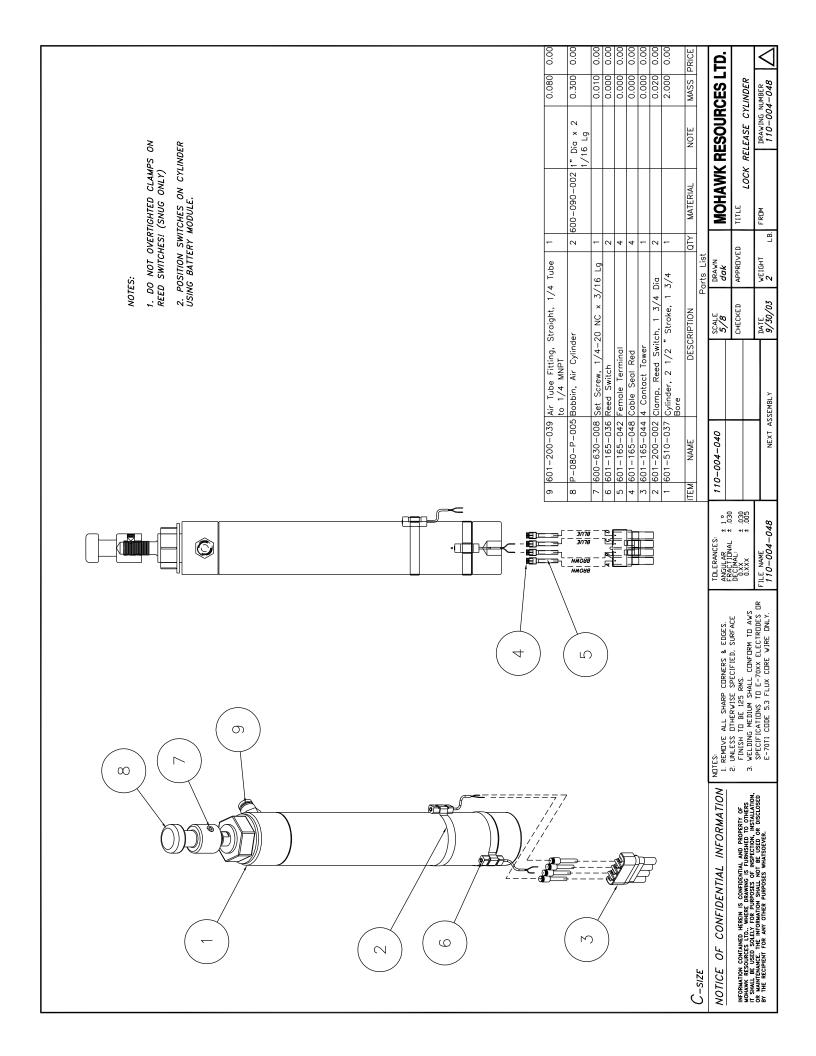


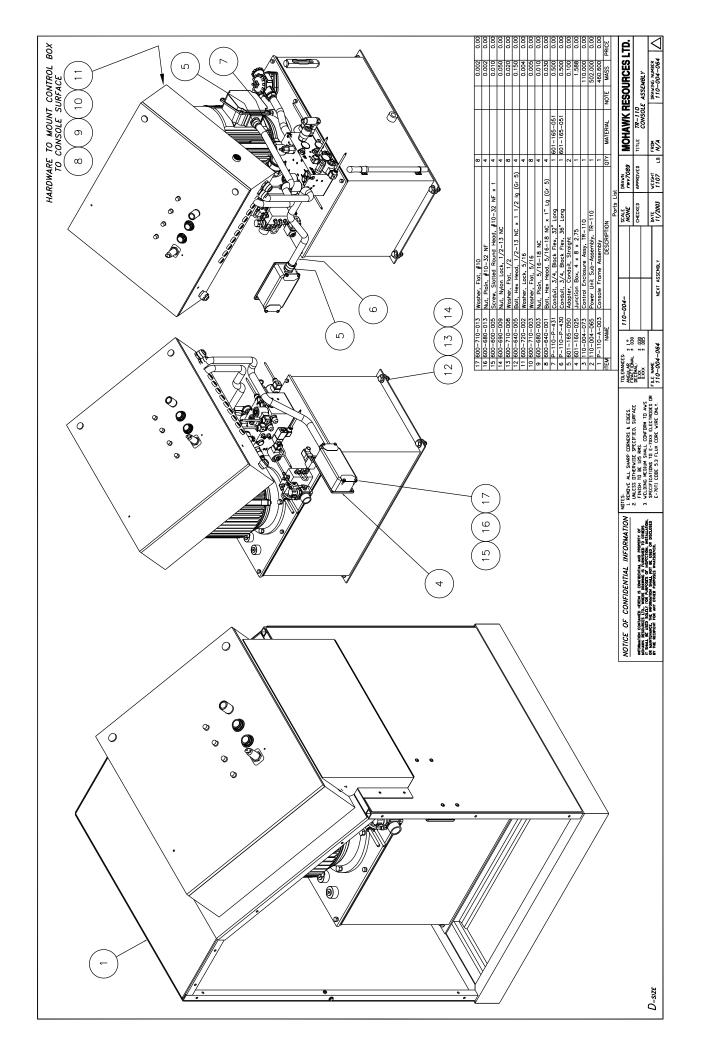


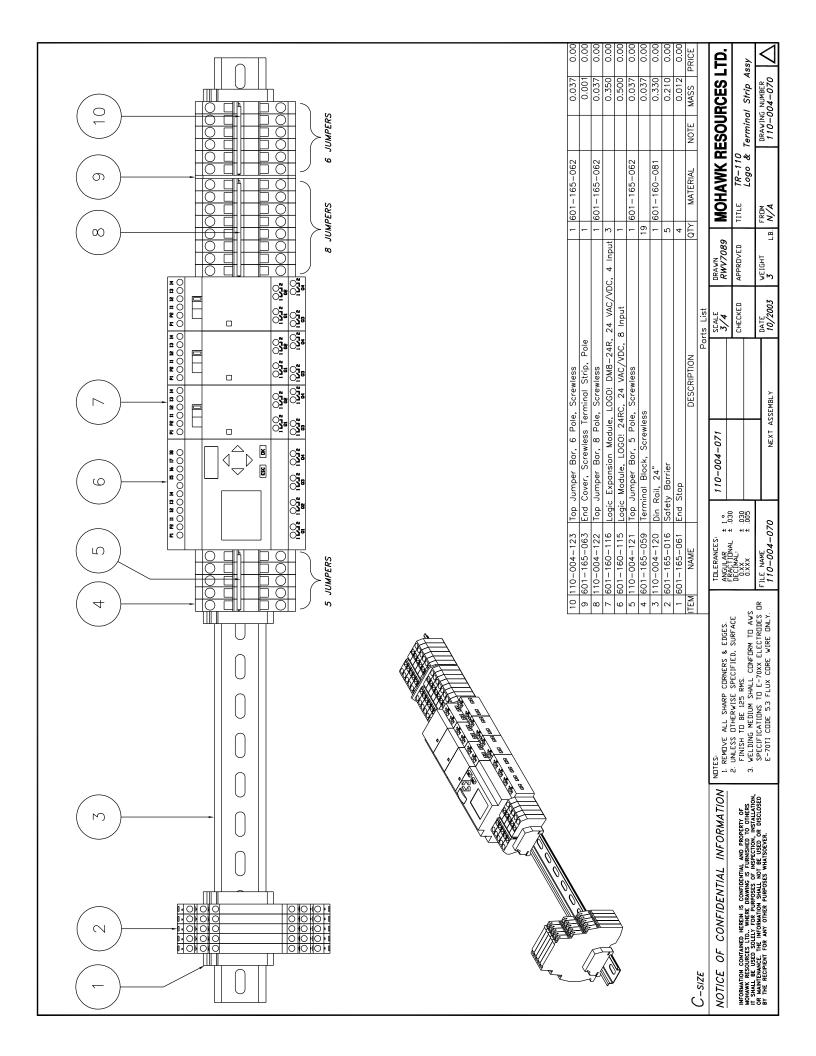


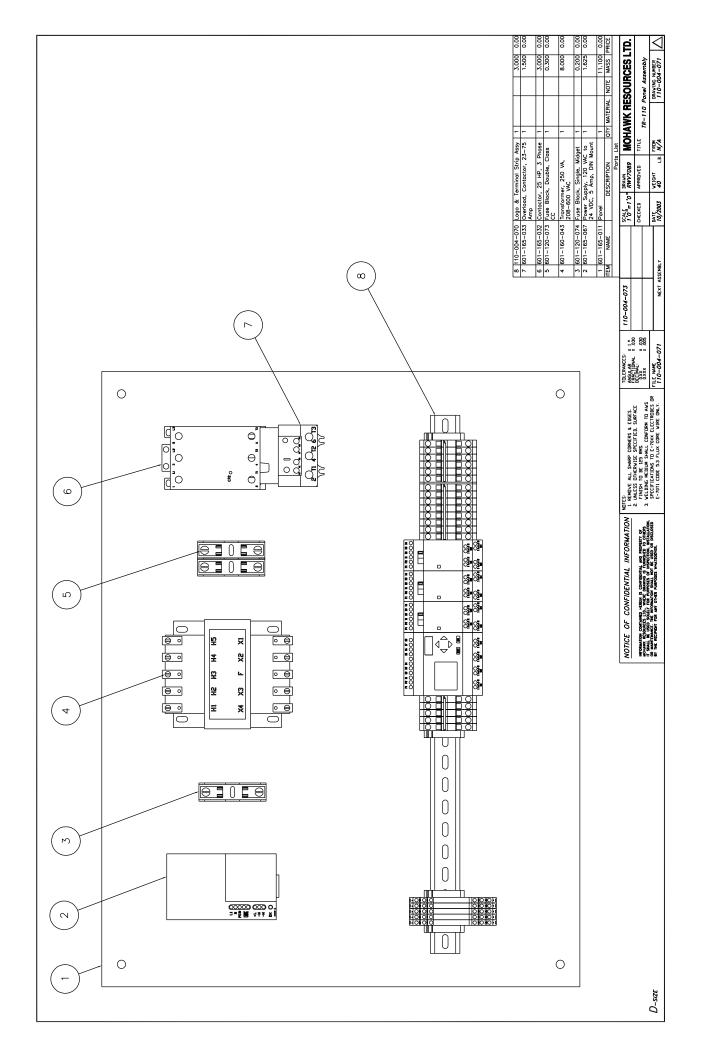


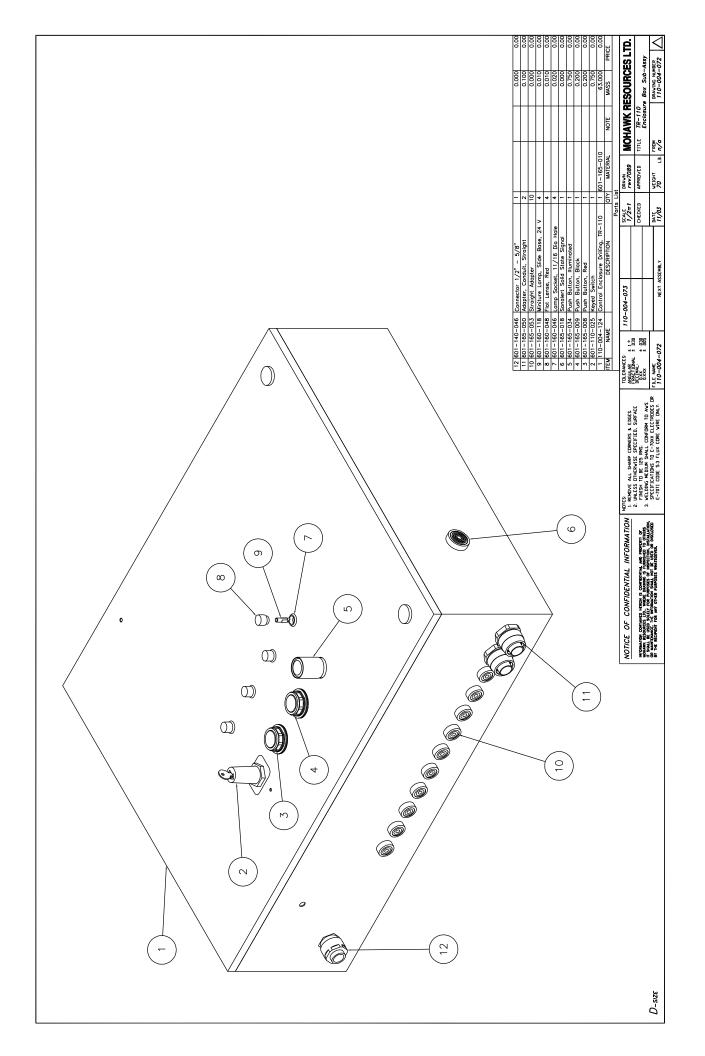












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MODEL TR-110

SAFETY DIAGRAMS







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.

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL 32903

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ALI/WL200c

SAFETY INSTRUCTIONS



Read operating and safety manuals before using lift.

SAFETY INSTRUCTIONS



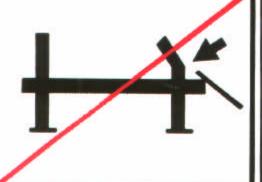
Proper maintenance and inspection is necessary for safe operation.



SAFETY INSTRUCTIONS

0

0



Do not operate a damaged lift.

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ALI/WL200s





self-closing

lift controls.



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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.



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

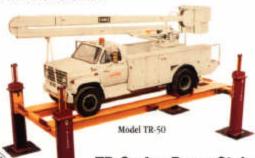
all vehicle doors as well as total undercar/underdash access, thanks to Mohawk's unique "clear-floor" design. Low 4" arms accommodate all imports and low-riding sports cars. Includes both 3" and 6" truck adapters.

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.



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 Industrial Park • P.O. Box 110 Amsterdam, NY 12010 1-800-833-2006 or 518-842-1431 FAX 518-842-1289



www.mohawklifts.com