

# **WHIP INDUSTRIES, INC.**

**WFP40R-SS, WFP40R-S,  
WFP40R & WFP40R-E**

**SUPER-SHORT,  
SHORT, STD. & EXT.**

**40,000 LBS CAPACITY**

FOUR POST ABOVE GROUND LIFT

**INSTALLATION INSTRUCTIONS & MANUAL**

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Rev. A

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## **IMPORTANT INFORMATION**

1. The floor where the lift is to be installed must be a minimum of 5” thickness of concrete. Concrete must be reinforced with steel rebar with a minimum compressive strength of 3,000 psi . Failure by the purchaser to provide the recommended mounting surfaces could result in personal injury, property damage and/or unsatisfactory lift performance.
2. Read the installation manual before installing the lift.
3. The four different size lifts referenced in this manual are sized according to the Track lengths inside the Cross Rails. The different lifts are as follows:
  - Super Short Lift has a track length of 20’.
  - Short Lift has a track length of 25’.
  - Standard Lift has a track length of 30’.
  - Extended Lift has a track length of 35’.
4. This lift is a four post lift which requires a minimum (SUPER-SHORT) 26’-1” x 37’-4”, (SHORT) 26’-1” x 42’-4” (STD.) 26’-1” x 47’-4” or (EXT.) 26’-1” x 52’-4” bay area.
5. Read anchoring tips information before drilling and installing the anchor bolts.
6. Do not raise a vehicle with the lift until the lift has been correctly installed and adjusted as described in this manual.
7. Maximum floor variation between any two posts is 2 inches.

## **CAUTIONS AND WARNINGS**

**MOTORS AND ELECTRIC CONTROLS ARE NOT – SEALED AGAINST WEATHER OR MOISTURE. DAMAGE OR ELECTRICAL SHOCK MAY OCCUR IF INSTALLED UNPROTECTED OUTDOORS.**

**FACTORY MUST BE NOTIFIED WITHIN 30 DAYS OF DELIVERY IF THERE ARE ANY PARTS MISSING.**

**RECOMMENDED OIL: HYDRUALIC MEDIUM OIL AW-32 OR EQUIVALENT.**

## **TOOLS REQUIRED**

Concrete rotary hammer drill with 3/4" carbide bit

Open End Wrenches: 7/16", 1/2", 9/16", 3/4", 15/16", 1 1/8", 1 11/16" & 1 7/8"

Ratchet Driver

Sockets: 1/4", 1/2", 3/4", 15/16", 1 1/8", 1 11/16" Deep Socket X 1/2"

Allen Wrenches: 3/16", 1/4" & 5/16"

8" and 15" Crescent Wrench

Phillip and Slotted Screw Driver

Hammer

Needle Nose Pliers

Retainer Ring Pliers

Electrical Pliers

Level

50' Tape Measure

Chalk Line

Small Drift Punch

30" Pry Bar

Nylon Lifting Sling

Step Ladder

21 gallons of hydraulic medium oil AW-32 or equivalent

1/4" Pneumatic Hose

4 x 4 Wood Blocks

#19 Steel Drill (0.166 Dia.)

Fork Lift

## ANCHORING TIPS

1. Anchor must be at least 5” from the edge of the slab or any seam.
2. Use a concrete hammer drill with a 3/4” carbide bit.
3. Do not use a worn bit.
4. Drill in a perpendicular line with the hole.
5. Do not apply excessive pressure to the drill. Let the drill do the work.
6. Lift the drill up and down occasionally to remove residue and to reduce binding.
7. Drill the hole depth equal to the length of the anchor, or completely through the slab.
8. For better holding power, blow all dust and residue from the hole before driving anchor into hole.

Place a flat washer over threaded end of anchor. Spin nut 1/2” down past end of anchor. Carefully tap anchor into the concrete until nut and flat washer are against base plate. Do not use an impact wrench to tighten.

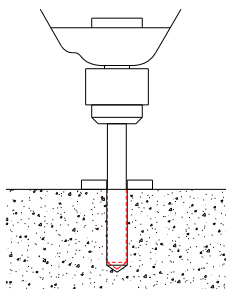


FIG. #1

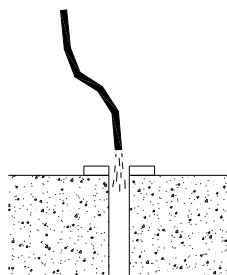


FIG. #2

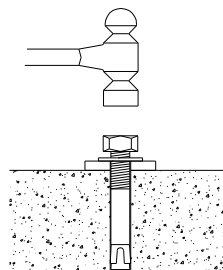


FIG. #3

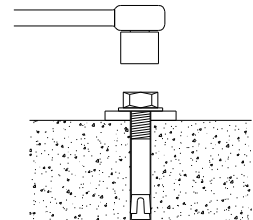


FIG. #4

## INSTALLATION INSTRUCTIONS

1. Determine the location for the lift. Keep in mind overhead clearances. Sixteen feet is the minimum recommended ceiling height. A higher ceiling may be required depending the height of the vehicles. Standard dimension required for four post lift is a minimum (SUPER-SHORT) 26'-1" x 37'-4", (SHORT) 26'-1" x 42'-4", (STD.) 26'-1" x 47'-4" or (EXT.) 26'-1" x 52'-4" bay area.
2. Unpacking lift, inspect lift for any damages due to transportation and check shipping list for missing parts.
3. Determine which side of the lift the Control Console is to be installed. This is called the MAINSIDE. The other side is referred to as the OFFSIDE. Ease of entry and exit from vehicles, type of work being done and required placement of the console to the lift are all considerations.
4. Step #1 Using the chalk line layout a rectangle were the leg assemblies will be located (SUPER-SHORT) 17'-1 1/4" x 23'-5 3/4", (SHORT) 17'-1 1/4" x 28'-5 3/4", (STD.) 17'-1 1/4" x 33'-5 3/4" or (EXT.) 17'-1 1/4" x 38'-5 3/4" bay area (see Layout & Installation Specification sheet). This should give the lift 4" clearance in front of the ramps and 7'-6 1/4" from the side of the any leg.
5. Step #2 After determining the Mainside, stand the two Mainside Legs upright inside the chalk lines, with each leg facing inside. The two legs comes with two holes in the bottom of the legs they should be facing the Control Console. (See Fig. #1 Layout Drawing and Fig. #2.) Next level and anchor the Mainside Legs per the anchor tips shown above.
6. Step #3 Unpack the inside of the leg by removing the wood blocks and chain straps. Next run the hydraulic hose and 1/4 airline tube thru the two holes with rubber grommets in the legs. Do both legs the same way.
7. Step #4 Locate the LH and RH Cross Rails. Position the Cross Rail about 12" to 18" from the Mainside Leg as shown in Fig. #2 and Fig. #10. Mainside end of the Cross Rail in front of the Mainside Leg. Set each Cross Rail on two 4 x 4 blocks of wood. Next connect the Cross Rail chains to the chain connector located at the base of the Mainside Leg. There are two 2 1/2" long dowel pins and one 3" long dowel pin inside the chain connector held in place by dowel pin holders (See Fig. #2 & Fig. #13). Remove the holders and slide the pins out. Connect the center chain first using the 3" dowel pin then the outer chains using the 2 1/2" dowel pins. Then bolt the RH/LH dowel pin holders on the connector. Repeat procedure the other Mainside Leg.
8. Step #5 Slide the Cross Rail towards the Mainside Leg (See Fig. #3 & Fig. #10B). The Cross Rail tube should be flush with the front part of the latch bar on the leg weldment. Next connect the cylinder chain to the Cross Rail chain connector. There should be two 4" long dowel pins in Cross Rail chain connector. Remove the holders and slide the pins out. First connect the outside chain then the center chain. Then bolt

the RH/LH dowel pin holders on the connector to secure the dowel pins. Repeat procedure the other Mainside Leg.

9. Step #6 Move the Offside Legs in front of the Offside end of the Cross Rail (See Fig. #4, Fig. #10A). The end of the Cross Rail should be flush with the base plate of the leg weldment. Next **remove one at a time** the safety latch pin keepers and replace it with the safety rods. Next slide the Offside Leg into position. Look at your chalk line layout. Once the leg is in position, pull the two safety rods thru the two holes. The rods should stick out about 2" past the top plate (See Fig. #12). Screw and tighten the 1 ¼" Lock Washer and 1 ¼-7UNC Hex Nut. Repeat procedure the other Offside Leg. Note the rectangular tube of the Cross Rail should be flush with the edge of the latch bar welded on the Offside Leg.
10. Step #7 Locate the six round threaded chain connectors, 3/8" shoulder bolt and 5/16-18UNC Nylon Hex Nut (See Fig. # 5 & Fig. #12). Attach the chain connector to the chain and pull each thru the three holes on the top plate. Use vice grip pliers to hold the bottom of the chain connector in place and a deep 1 11/16" **deep socket** to tighten the jam nut. There should be about 1 ½" worth of threads past the first jam nut. May have to adjust the chain connector depending on how level the lift is from side to side with weight on the lift. Repeat procedure the other Offside Leg.
11. Step #8 Level and anchor the both Offside Leg. Anchor the Offside per the anchor tips shown above.
12. Step #9 Locate and attach the rub block bracket as shown in Fig. #6. The rub block brackets are also shown in Fig. #10, #10A & #10B. Raise Cross Rail about 24", this makes it easier to attach the brackets to Cross Rails. Mainside Leg uses the Single Rub Block Bracket. The Offside Leg uses the Double Rub Block Bracket. Slide the brackets in from the bottom and attach them using the 5/8 bolts, 5/8 lock washers and the 5/8 flat washers.
13. Step #10 Locate and position the two Tracks in between the Cross Rail (See Fig. #1, Fig. #7 & Fig. #11). Both jack rails on each Track should be facing each other. The Track should be centered on the Cross Rail and should have a spacing of 3'-0" to 4'-10" depending on the customer's preference.
14. Step #11 Locate and position the two Ramps at the end of the Tracks (See Fig. #1, Fig. #7 & Fig. #11). The Ramps can be placed on either end. The spacing between the end of the Track plate and the Ramp should be about 3/8". Next anchor Ramps using the ½ anchor bolts.
15. Step #12 Locate and position the two Stops at the end of the Tracks (See Fig. #1, Fig. #7 & Fig. #11). The Stops can also be placed on either end of the Tracks unless Ramps are already anchored. Use ¾ bolts, ¾ flat washers, ¾ lock washers and ¾ nuts to bolts Stops to the end plates of the Tracks.
16. Step #13 Locate and position the Control Console at centered between the two Mainside Legs and a minimum of 2'-0" from the outside of the base plate (See Fig.

#1). Remove Top Console cover and attach hydraulic hoses and pneumatic tube as shown in Fig.# 9. **There are pressure hydraulic hoses and two return hydraulic hoses.**

17. Step #14 Next attach the 5/32" diameter coiled tube on the top tube connector in each Mainside Leg to the pneumatic cylinders on the Cross Rails.
18. Step #15 Locate and position the hydraulic hose protectors as shown in Fig. #6. Anchor protectors per anchor tips. Use 3/8 anchor bolts to secure hose protectors.
19. Step #16 Fill the power unit tank with AW-32 or equivalent hydraulic oil. Reservoir has a 20-gallon capacity.
20. Step #17 Wire motor starter and motor (See power unit manual for installation).
21. Step #18 Raise lift and level Cross Rails side to side by adjusting the Threaded Chain Connector on the Offside Legs. Cross Rails may have to re-adjust chain when load is on the lift.
22. Step #19 Purge trapped air in hydraulic lines by raising and lowering lift repeatedly. Refill tank with hydraulic oil and lift is ready to operate.

### **30 DAY MAINTENANCE**

- 1) Check all bolts and nuts to make sure they are tight.
- 2) Check equalizer chains regularly for proper tension and adjustment.
- 3) Inspect adapters and pads for damage or wear. Replace if necessary.
- 4) Inspect all hydraulic lines and fittings for leaks and tighten if necessary.
- 5) Check locking latches and releases for proper operation.
- 6) During first week check and tighten anchor bolts daily and check concrete for stress cracks



## TROUBLE SHOOTING GUIDE

### POSSIBLE PROBLEM

### POSSIBLE CAUSE & SOLUTIONS

1. MOTOR DOES NOT RUN

- A) Breaker tripped or fuse blown
- B) Motor thermal overload tripped.  
Wait for overload to cool.
- C) Check thermal overload in starter box (three phase only). Push to reset.
- D) Defective control switch, replace
- E) Faulty wiring connections. Call electrician.

2. MOTOR RUNS BUT THE LIFT WILL NOT RAISE OR HOLD A LOAD

- A) A foreign object under check valve. Turn P/U on and push lowering handle down. Foreign matter should release under pressure.
- B) Remove check valve. Clean and replace.
- C) Oil level low: check oil reservoir. With tracks in the down position, pump reservoir should be full.

3. MOTOR RUNS BUT THE LIFT PICKS UP PARTIAL LOAD ONLY.

- A) Relief valve setting is too low. Loosen hex nut on pump and adjust valve clockwise.
- B) Hydraulic seals damaged (call factory for instructions)

4. OIL BLOWS OUT BREATHER

- A) Oil reservoir overfilled
- B) Lift lowered too quickly while under heavy load.

5. LIFT MAKES A GROANING SOUNDING WHEN RAISING OR LOWERING.

- A) Bleed cylinder manually.

6. LIFT RAISES UNEVENLY

- A) Chain are not properly adjusted or tighten.
- B) Use lighter weight oil in the pump.

For other possible problems reference Power Unit Owners Manual

## PARTS & SHIPPING LIST

PART NUMBER	DESCRIPTION	QTY.	
<b>Control Console</b>		<b>1</b>	
2772-BLK	Rubber Grommet	4	
2404-06-06	3/8MJIC x 3/8MNPT Straight Adapter	2	
2404-08-08	1/2MJIC x 1/2MNPT Straight Adapter	2	
2404-08-12	1/2MJIC x 3/4MNPT Straight Adapter	1	
2405-06-04	3/8MJIC x 1/4FNPT Straight Adapter	2	
2406-12-08	3/4FJIC x 1/2MNPT Straight Adapter	1	
4272731	Hydraulic Pressure Gage	2	
47865K21	1/4NPT Brass Ball Valve	1	
5406-04P	1/4NPT Plug	1	
5485K22	1/4NPT Brass Nipple	1	
60115K39	F/L/R Air System	1	
6410-10-06	5/8MORB x 3/8FORB Straight Reducer	2	
6801-08-12	1/2MJIC x 3/4MORB 90 Deg. Adapter	4	
6803-08-08-12	1/2MJIC x 1/2MJIC x 3/4MORB Tee	1	
6804-06-06-06	3/8MJIC x 3/8MORB x 3/8MJIC Run Tee	2	
6804-06-08-06	3/8MJIC x 1/2MORB x 3/8MJIC Run Tee	1	
90126A030	5/16 SAE Flat Washer	10	
90272A148	#6-32 x 1/2 Pan Head Phillip Screw	6	
90272A247	#10-24UNC x 1 Pan Head Phillip Screw	9	
90272A546	1/4-20UNC x 1 1/2 Pan Head Phillip Screw	6	
90480A007	#6-32 Mach. Screw Nut	6	
90480A011	#10-24 Mach. Screw Nut	9	
91102A007	#6 Lock Washer	6	
91102A011	#10 Lock Washer	9	
91102A030	5/16 Lock Washer	10	
91102A031	3/8 Lock Washer	8	
91251A623	3/8-16UNC SHCS x 7/8 Lg.	4	
91309A624	3/8-16UNC HHCS x 1 Lg.	10	
91578A304	1/2-13UNC x 4 1/2 Wedge Anchor w/nut & washer	2	HK
92865A581	5/16-18UNC HHCS x 3/4 Lg.	10	
ALIF-440-106-XX	Top Panel Cover	1	
ALIF-440-112-XX	Bottom Panel Cover	1	
ALIF-440-113-XX	Control Panel	1	
ALIF-440-127	#10MORB x #6FORB w/0.156 Orifice	2	
A0-120-T3-J-S	Tandem Center Spool Valve	2	
DA15430-H	10 Hp Power Unit, 20 Gal Capacity	1	
K02	Pneumatic Control Valve	1	
PT24006BK	3/8 O.D. Black Tube	3 Ft.	
P23	50/50 Flow Divider	1	
SPB-4002-B	1/4 ID x 1/4MNPT Push-On Branch Tee	1	
SPC-6002	3/8 ID x 1/4MNPT Push-On Straight	2	

<b>Cross Rail Assy.</b>		<b>1/1</b>	
6498K43	1 1/16 Cyl. Clevis	4	
6498K72	3/4" Pivot Bracket	4	
6498K337-3.00	1 1/16 Air Cylinder x 3.0 Stroke	4	
90126A035	5/8 Flat Washer	16	HK
90126A040	1 1/4 SAE Flat Washer	8	
90126A041	1 3/8 SAE Flat Washer	12	
91102A029	1/4 Lock Washer	4	
91102A035	5/8 Lock Washer	16	HK
92865A537	1/4-20UNC HHCS x 1/2" Lg.	4	
92865A798	5/8-11UNC HHCS x 1 1/2 Lg.	16	HK
98381A640	3/8 Dowel Pin x 4" Lg.	4	
98410A139	1 1/2 Ext. Retainer Ring	12	
98410A249	1 3/8 Ext. Retainer Ring	4	
ALIF-440-026L-XX	LH Cross Rail Weldm't.	1	
ALIF-440-026R-XX	RH Cross Rail Weldm't.	1	
ALIF-440-036L/R-X	MS Safety Latch Bar	1/1	
ALIF-440-037L/R-X	OS Safety Latch Bar	1/1	
ALIF-440-038-XX	Safety Latch Bracket	2	
ALIF-440-054-XX	Safety Latch Weldm't.	4	
ALIF-440-055	CR Chain Connector	2	
ALIF-440-061	MS Cross Rail Pin	2	
ALIF-440-063	Safety Latch Pin	2	
ALIF-440-064	MS Chain Connector Pin	2	
ALIF-440-066	Safety Latch Pin	4	
ALIF-440-067	Chain Anchor Stud	6	PKG
ALIF-440-068	3-Chain Sheave	4	
ALIF-440-069	Safety Latch Plate	2	
ALIF-440-079-XX	Double Rub Block Bracket	4	PKG
ALIF-440-080-XX	Single Rub Block Bracket	4	PKG
ALIF-440-100	Safety Latch Spring, 1.968 OD x 0.225W x 8.00 Comp.	4	
ALIF-440-101	Safety Latch Spring, 0.687 OD x 0.105W x 7.25 Ext.	4	
ALIF-440-102	Cross Rail Chain	6	
ALIF-440-104L/R-X	LH/RH Dowel Pin Holder	4/4	
CUHC10500ZTAP727E	#10-24 STS x 1/2" Lg.	16	
GL-09-057	Rub Block	12	
PT23003BK	5/32 O.D. Black Tube	31 Ft.	
SPE-25	5/32 ID Push-On Union Tee	2	
SPL-2501-B	5/32 ID x 1/8MNPT Push-On 90 Deg. Conn.	4	

**LH/RH Mainside Leg Assy. 1/1**

1U571	3/8NPT Breather Plug	2	
2404-06-08	3/8MJIC x 1/2MNPT Straight Adapter	2	
2772-BLK	Rubber Grommet	10	

28900-504-25	25 GPM Velocity Fuse	2	
5040K34	5/32 OD x 12"/96" Extendable Tube	2	
5406-08P	1/2NPT Plug	2	
91102A029	¼ Lock Washer	8	
91578A502	¾-10UNC x 7 Wedge Anchor w/nut & washer	12	HK
92865A537	¼-20UNC HHCS x ½" Lg.	8	
98381A640	3/8 Dowel Pin x 4" Lg.	4	
98381A634	3/8 Dowel Pin x 2 ½" Lg.	4	
98381A636	3/8 Dowel Pin x 3" Lg.	2	
98410A249	1 3/8 Ext. Retainer Ring	4	
AA7040001	7" Dia. Bore Cylinder	2	
ALIF-440-015L/R-X	LH/RH Main Side Leg Weldm't.	1/1	
ALIF-440-059	Cylinder Clevis Pin	4	
ALIF-440-075-XX	Cylinder Clevis	2	
ALIF-440-081	4" Chain Sheave	12	
ALIF-440-082-XX	Hose Protector Bracket	2	
ALIF-440-103	Cylinder Chain	6	
ALIF-440-104L/R-X	LH/RH Dowel Pin Holder	4/4	
CUHC10500ZTAP727E	#10-24 STS x ½" Lg.	4	
PT24004BK	1/4 O.D. Black Tube	56 Ft.	
SPL-2502-B	5/32 ID x 1/4MNPT Push-On 90 Deg. Conn.	2	
SPL-4002-B	1/4 ID x 1/4MNPT Push-On 90 Deg. Conn.	2	
<b>Offside Leg Assy.</b>		<b>2</b>	
91102A040	1 ¼ Lock Washer	8	
91259A626	3/8 Shoulder Bolt x 1 1/4 Lg.	6	HK
91578A502	¾-10UNC x 7 Wedge Anchor w/nut & washer	12	HK
94846A558	1 1/8-12UNF Jam Nut Grd. 5	12	HK
95462A559	1 ¼-7UNC Hex Nut Grd. 5	8	
95615A160	5/16-18UNC Nylon Hex Nut Grd. 5	6	HK
ALIF-440-016-XX	Offside Leg Weldm't.	2	
ALIF-440-067	OS Threaded Chain Connector	6	PKG
ALIF-440-071	Safety Rod	4	
<b>Track, Ramp &amp; Stop Assy.</b>		<b>2/2/2</b>	
90126A036	¾ Flat Washer	16	
90473A237	¾-10UNC Hex Nut	8	
91102A036	¾ Lock Washer	8	
91247A847	¾-10UNC x 3 Lg. HHCS Grd. 5	8	
91578A304	½-13UNC x 4 ½ Wedge Anchor w/nut & washer	8	HK
ALIF-440-346-XX	S-SHORT-20' Track Weldm't.	2	
ALIF-440-046-XX	SHORT-25' Track Weldm't.	2	
ALIF-440-146-XX	STD.-30' Track Weldm't.	2	
ALIF-440-246-XX	EXT.-35' Track Weldm't.	2	
ALIF-440-053-XX	Ramp Weldm't.	2	
ALIF-440-054-XX	Track Stop	2	PKG

## Hydraulic Hoses

ALIF-440-120	1/2 Hyd Hose x 15", 8FJICSE/8FJICS90E	1	PKG
ALIF-440-121	1/2 Hyd Hose x 22", 8FJICSE/8FJICS90E	1	PKG
ALIF-440-122	3/8 Hyd Hose x 10", 6FJICSE/6FJICS90E	2	PKG
ALIF-440-123-20	3/8 Hyd Hose x 172, 6FJICS E/E, (Pressure)	2	PKG
ALIF-440-124-20	3/8 Hyd Hose x 212, 6FJICS E/E, (Return)	2	PKG
	OR		
ALIF-440-123-25	3/8 Hyd Hose x 202, 6FJICS E/E, (Pressure)	2	PKG
ALIF-440-124-25	3/8 Hyd Hose x 242, 6FJICS E/E, (Return)	2	PKG
	OR		
ALIF-440-123-30	3/8 Hyd Hose x 232, 6FJICS E/E, (Pressure)	2	PKG
ALIF-440-124-30	3/8 Hyd Hose x 272, 6FJICS E/E, (Return)	2	PKG
	OR		
ALIF-440-123-35	3/8 Hyd Hose x 262, 6FJICS E/E, (Pressure)	2	PKG
ALIF-440-124-35	3/8 Hyd Hose x 302, 6FJICS E/E, (Return)	2	PKG

\*\*\* Note: Hydraulic hose lengths depend on the length of the lift.

## Misc. Parts

ALIF-440-096-XX	30' Hose Protector Ext. Weldm't.	2	
ALIF-440-097-XX	30' & 35' Hose Protector Weldm't.	2	
ALIF-440-098-XX	25' Hose Protector Weldm't.	2	
ALIF-440-398-XX	20' Hose Protector Weldm't.	2	
91578A202	3/8-16UNC x 3 1/2 Wedge Anchor w/nut & washer	14	HK
GL-09-056	1/16" Steel Shims	32	HK
GL-09-112	1/4" Steel Shims	16	HK

## Optional Parts

WAJ20	20K Air Roller Jack	1	PKG
WAJ25	25K Air Roller Jack	1	PKG

\*\*\* Note: All hardware unless specified is grade 2. All hardware is zinc coated unless specified. Parts with PKG at the end are packed on the lift and parts with HK at the end are packaged in a box and put on the lift.

# 40K 4-POST LIFTS

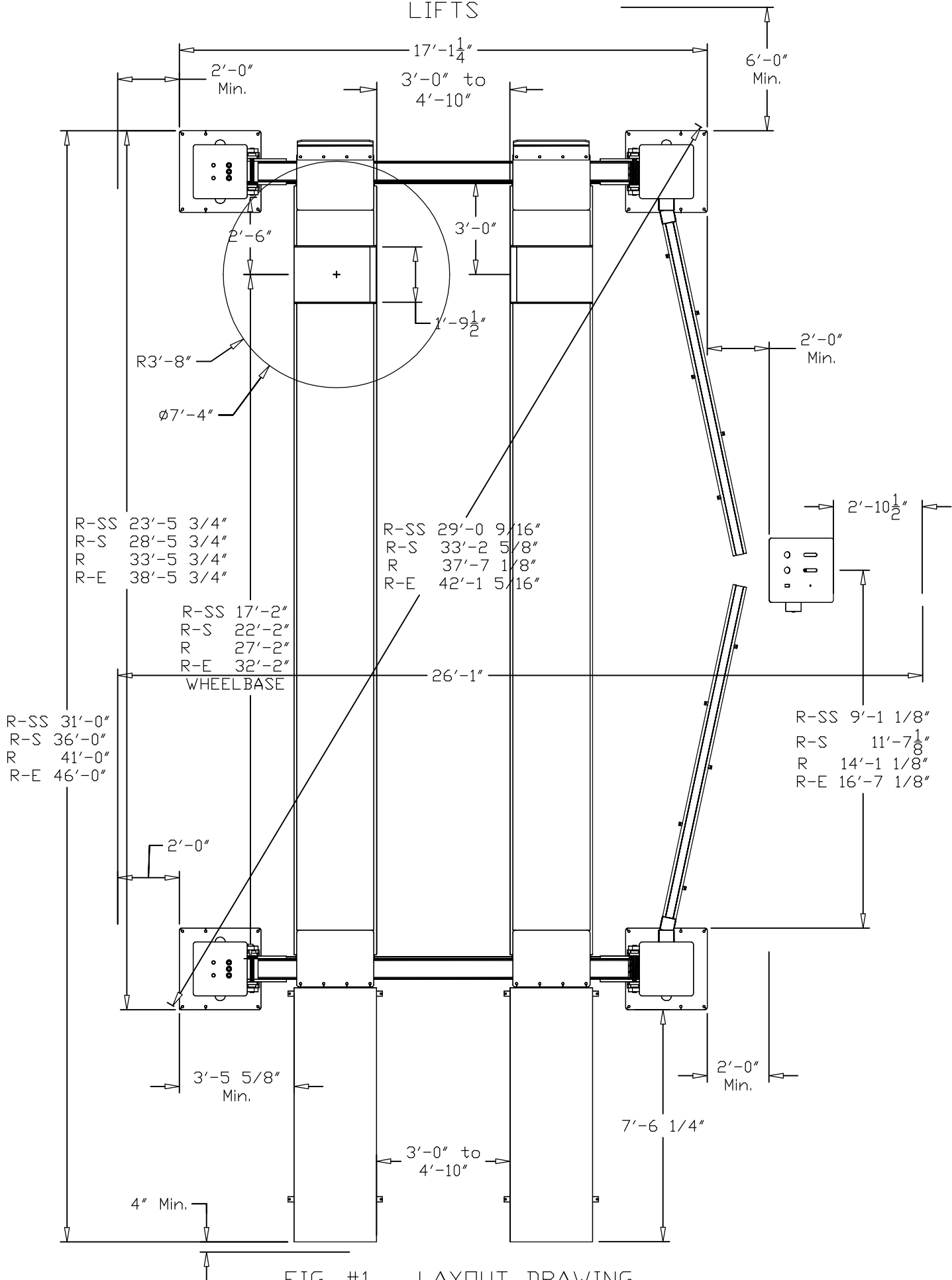


FIG. #1 LAYOUT DRAWING  
20', 25', 30' & 35' LIFT

LIFT LAYOUT &  
ASSEMBLY

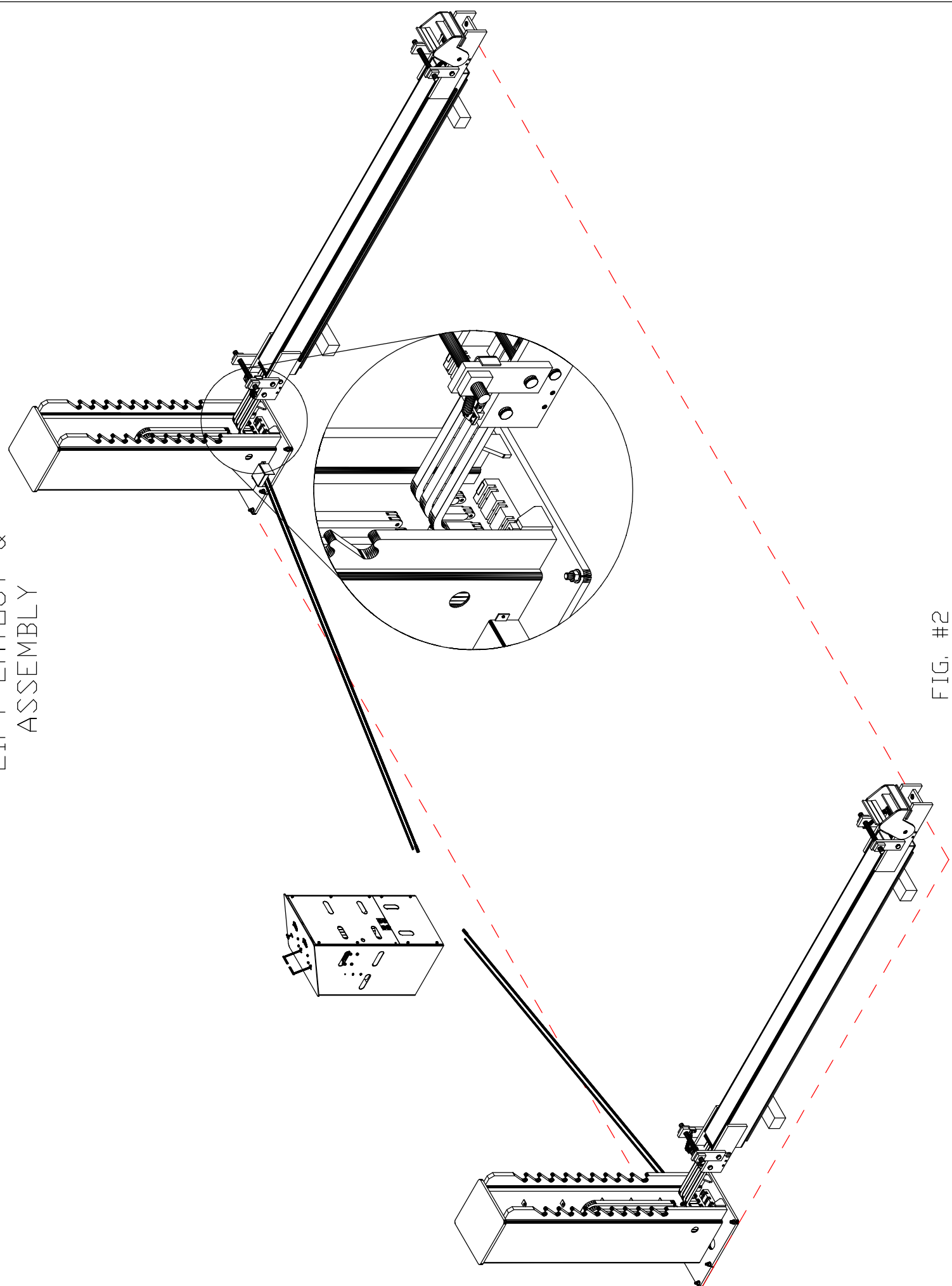


FIG. #2

MAINSIDE LEG & CROSS RAIL  
ASSEMBLY

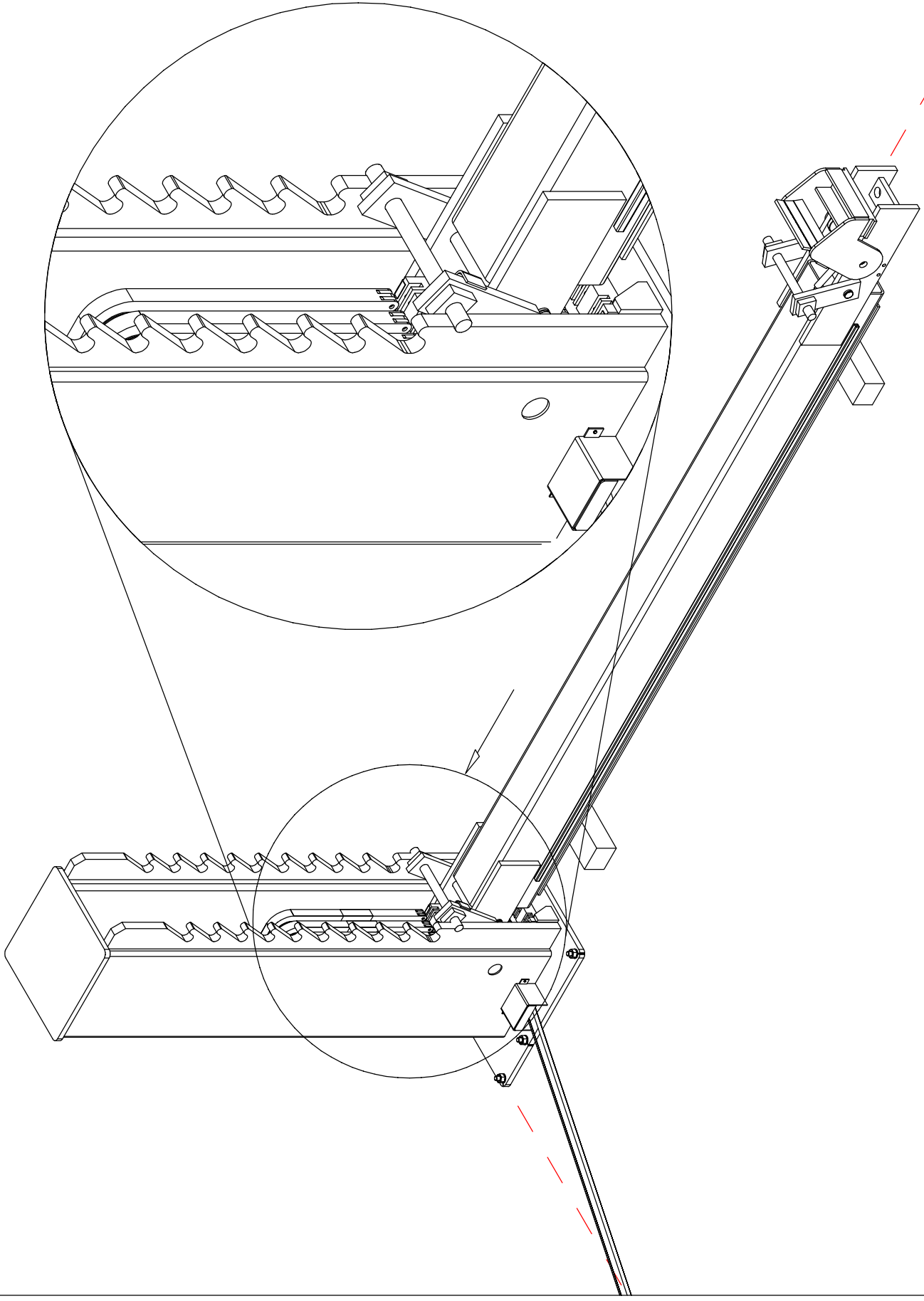


FIG. #3



MAINSIDE, CROSS RAIL AND  
OFFSIDE LEG ASSEMBLY

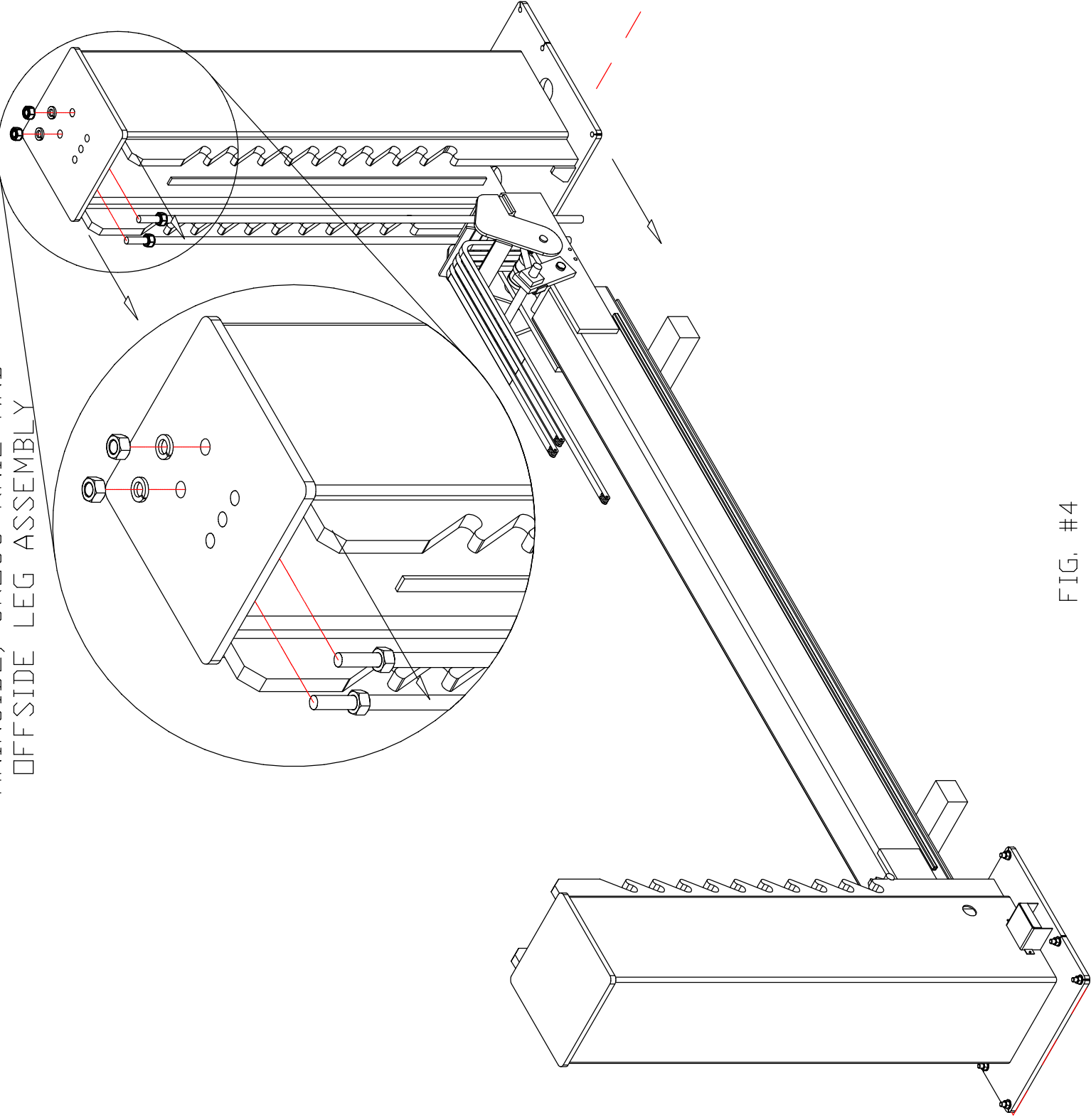


FIG. #4

MAINSIDE, CROSS RAIL AND  
OFFSIDE LEG ASSEMBLY

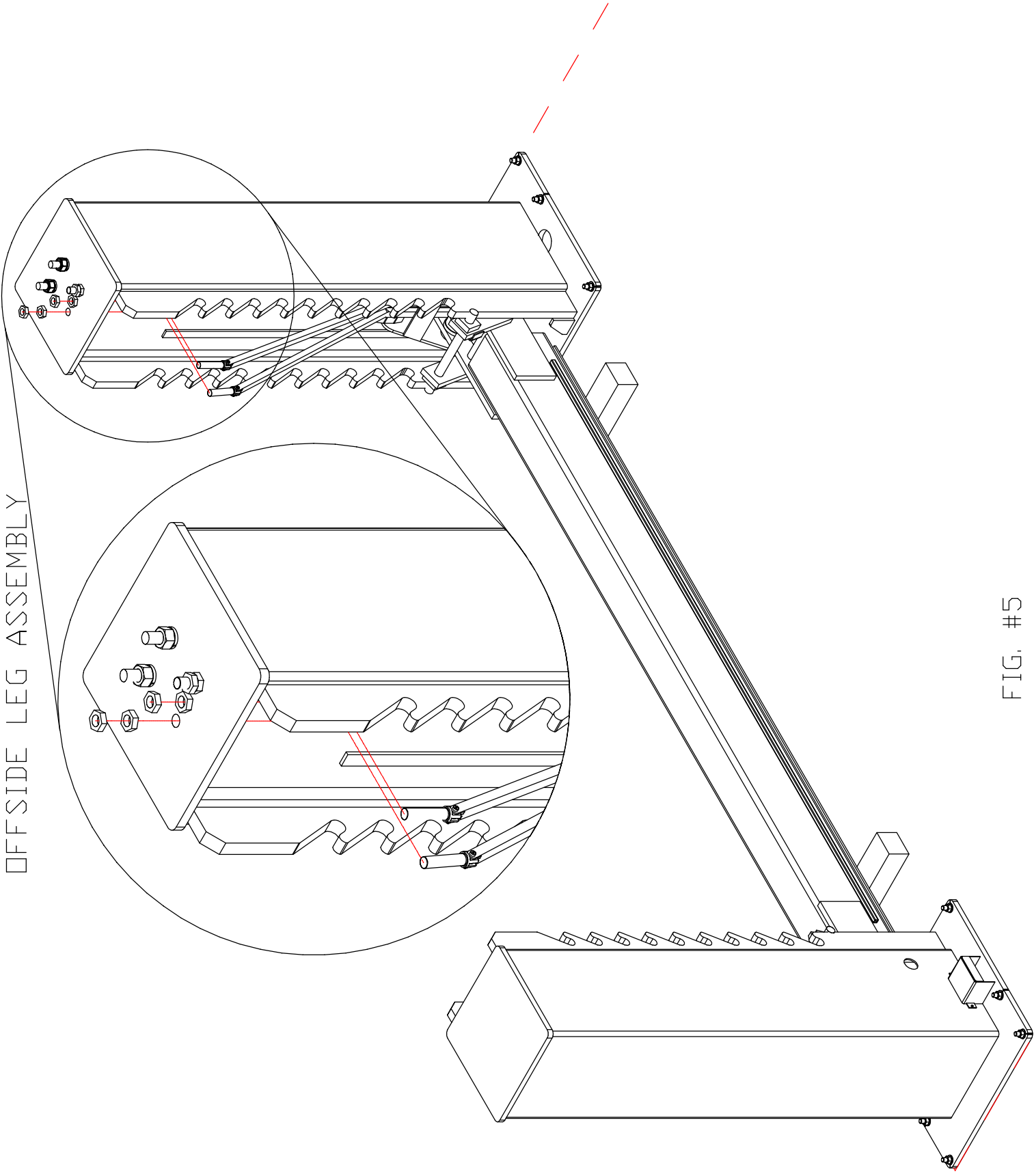


FIG. #5

# LIFT ASSEMBLY

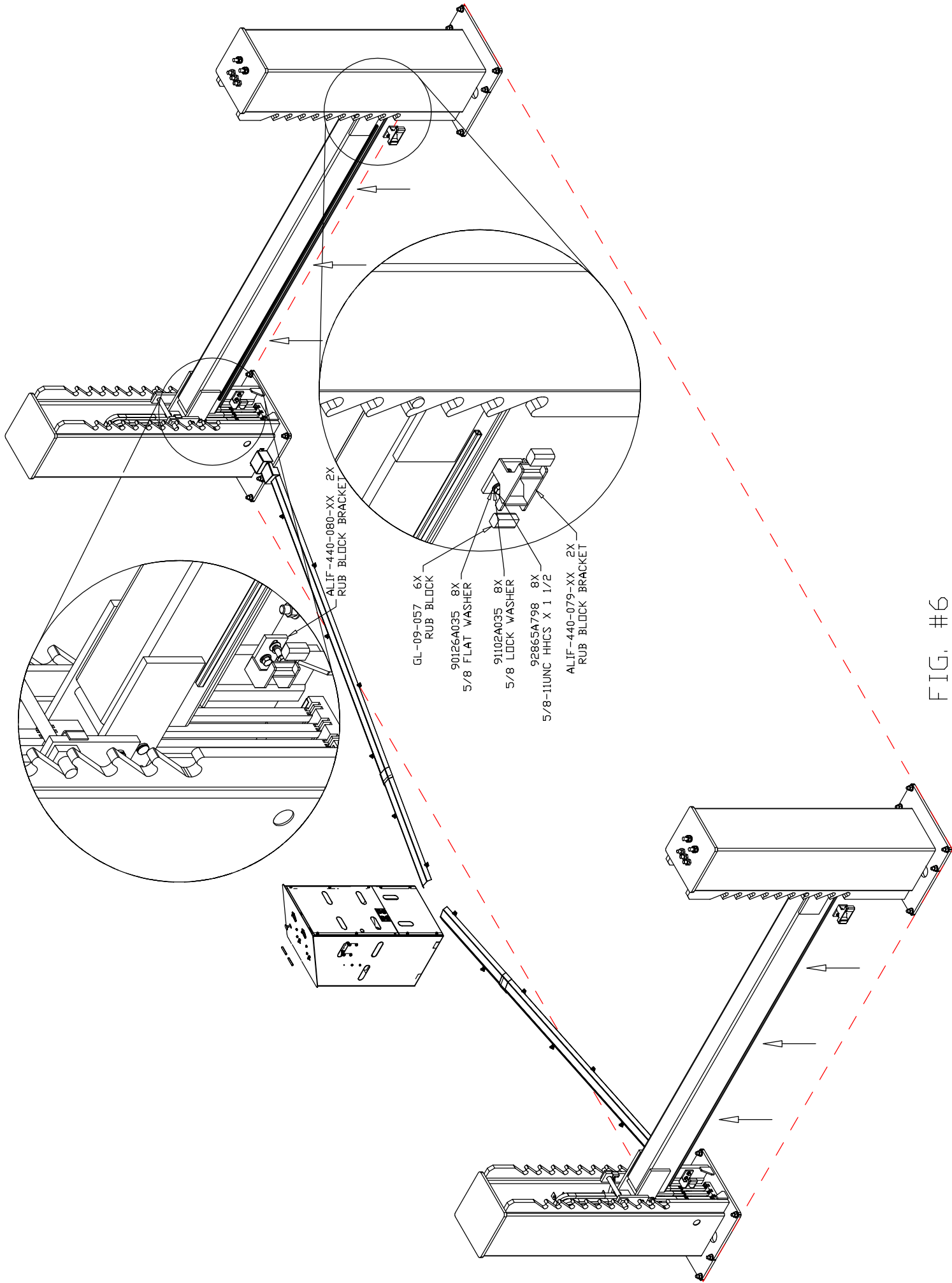


FIG. #6

# FINAL LIFT ASSEMBLY

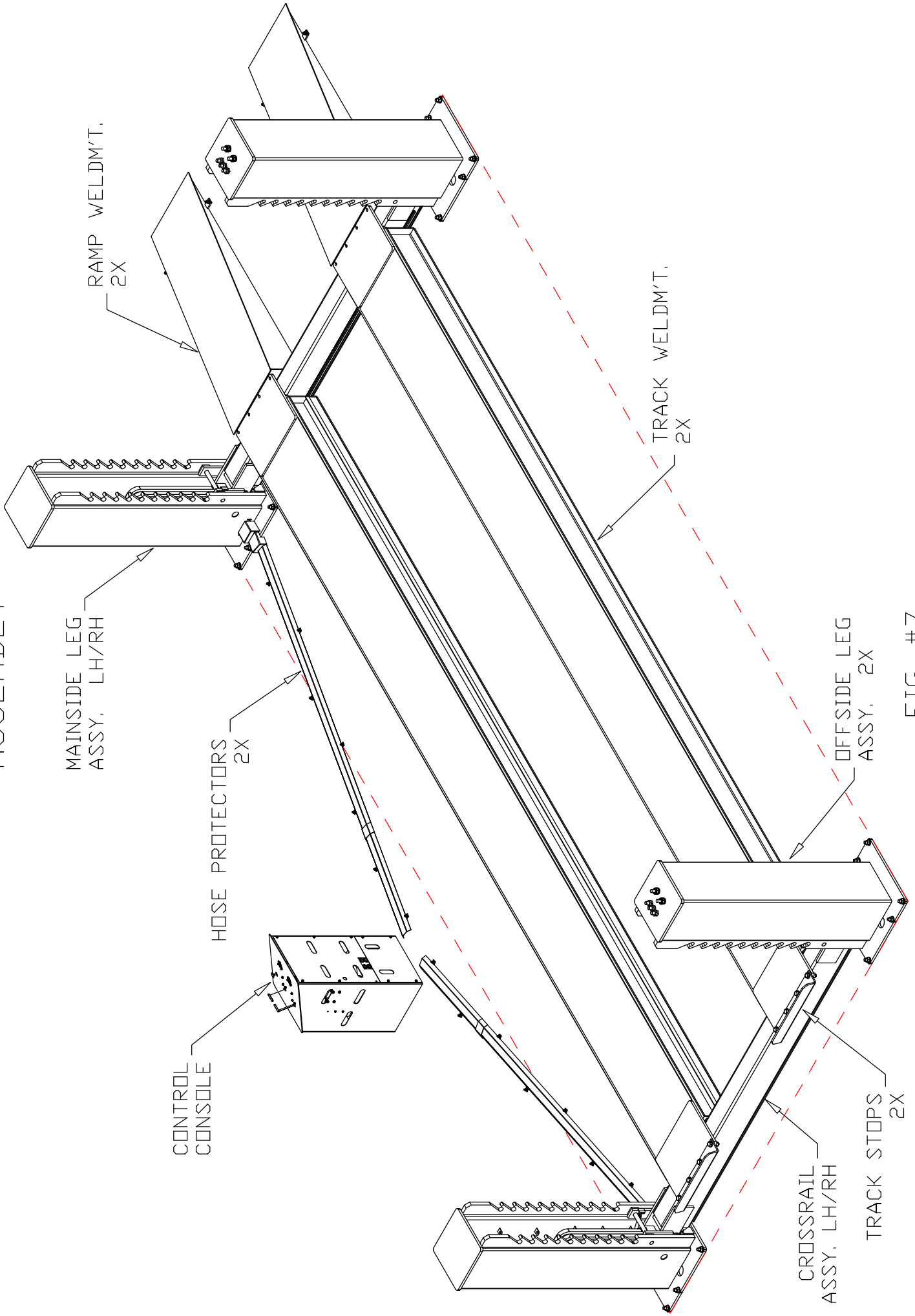


FIG. #7

# CONTROL PANEL ASSEMBLY

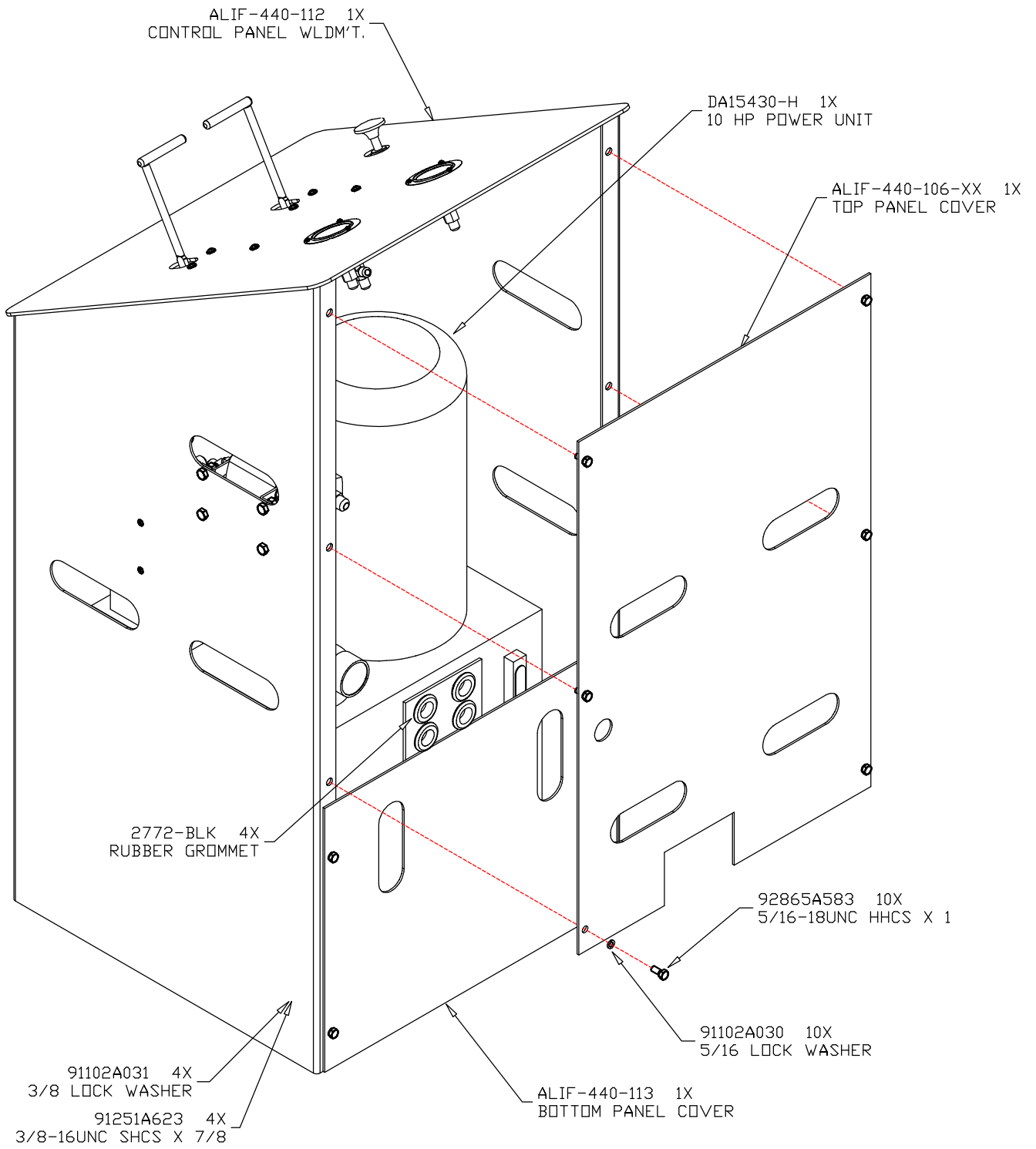


FIG. #8

# CONTROL PANEL AIRLINE & HYDRUALIC CONNECTIONS

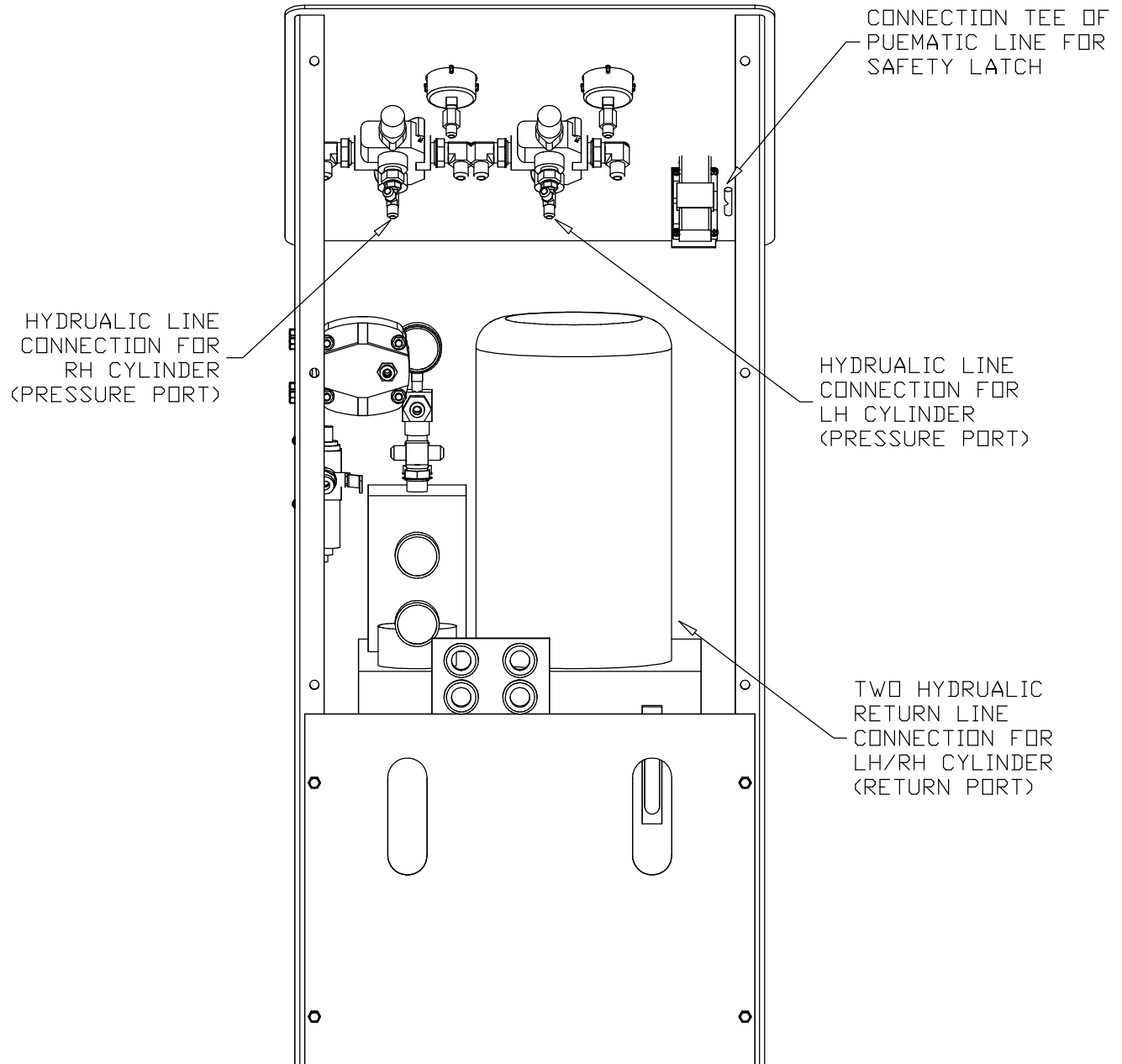
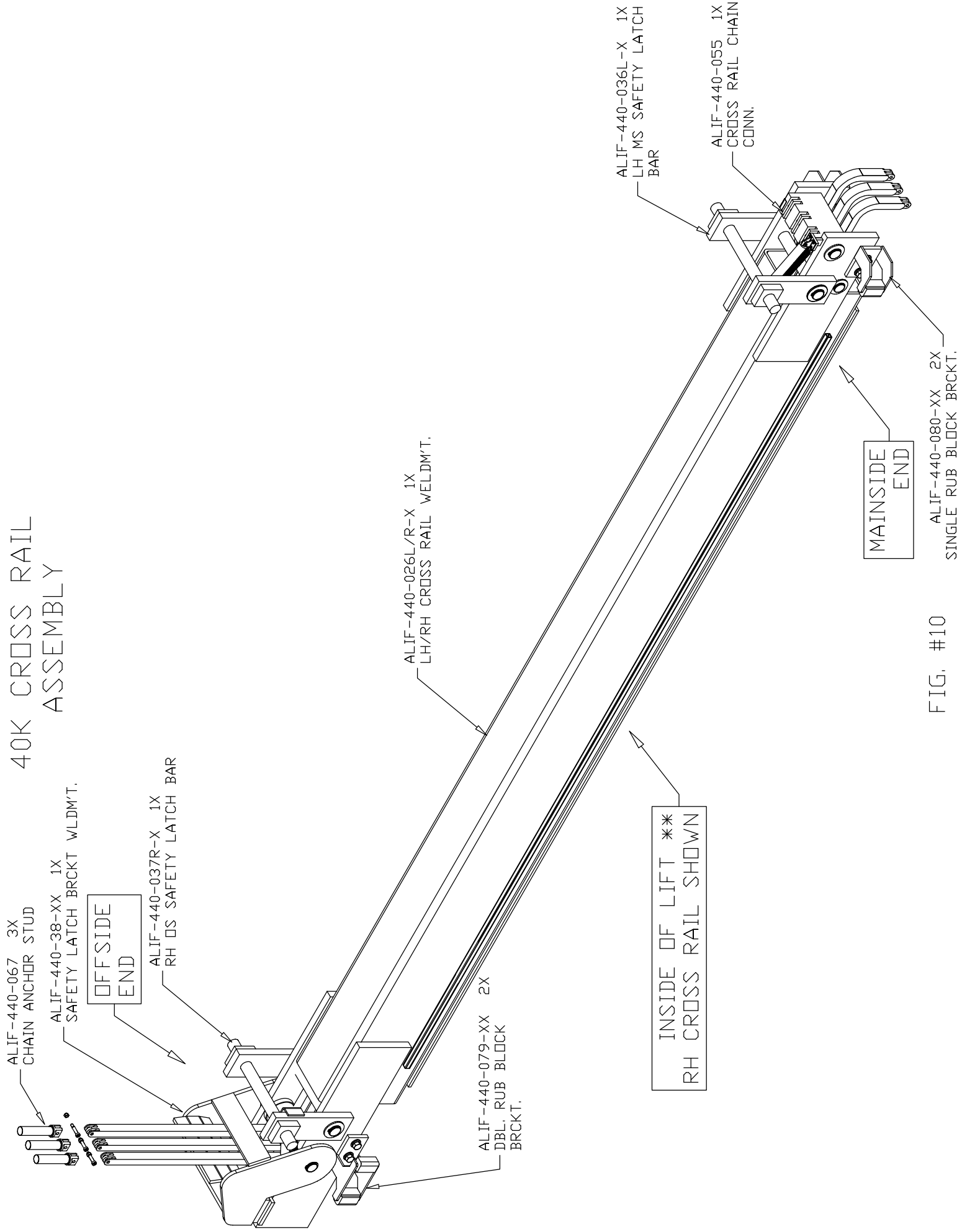


FIG. #9

# 40K CROSS RAIL ASSEMBLY



ALIF-440-067 3X  
CHAIN ANCHOR STUD

ALIF-440-38-XX 1X  
SAFETY LATCH BRCKT WLDMT.

OFFSIDE  
END

ALIF-440-037R-X 1X  
RH OS SAFETY LATCH BAR

ALIF-440-026L/R-X 1X  
LH/RH CROSS RAIL WELDM'T.

ALIF-440-079-XX 2X  
DBL. RUB BLOCK  
BRCKT.

INSIDE OF LIFT \*\*  
RH CROSS RAIL SHOWN

ALIF-440-036L-X 1X  
LH MS SAFETY LATCH  
BAR

ALIF-440-055 1X  
CROSS RAIL CHAIN  
CONN.

MAINSIDE  
END

ALIF-440-080-XX 2X  
SINGLE RUB BLOCK BRCKT.

FIG. #10

# 40K CROSS RAIL ASSEMBLY (MAINSIDE)

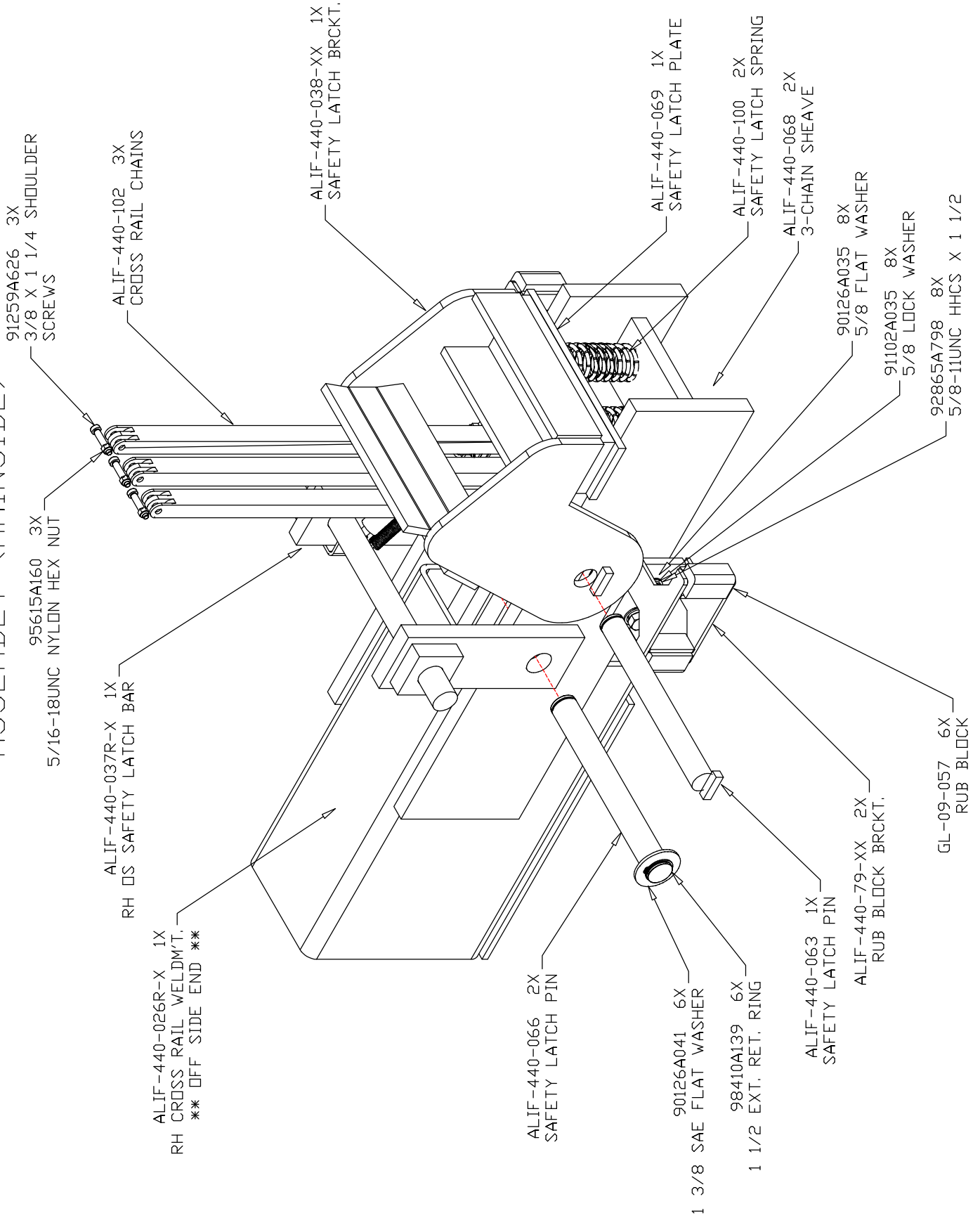


FIG. #10A



# 40K CROSS RAIL ASSEMBLY (OFFSIDE)

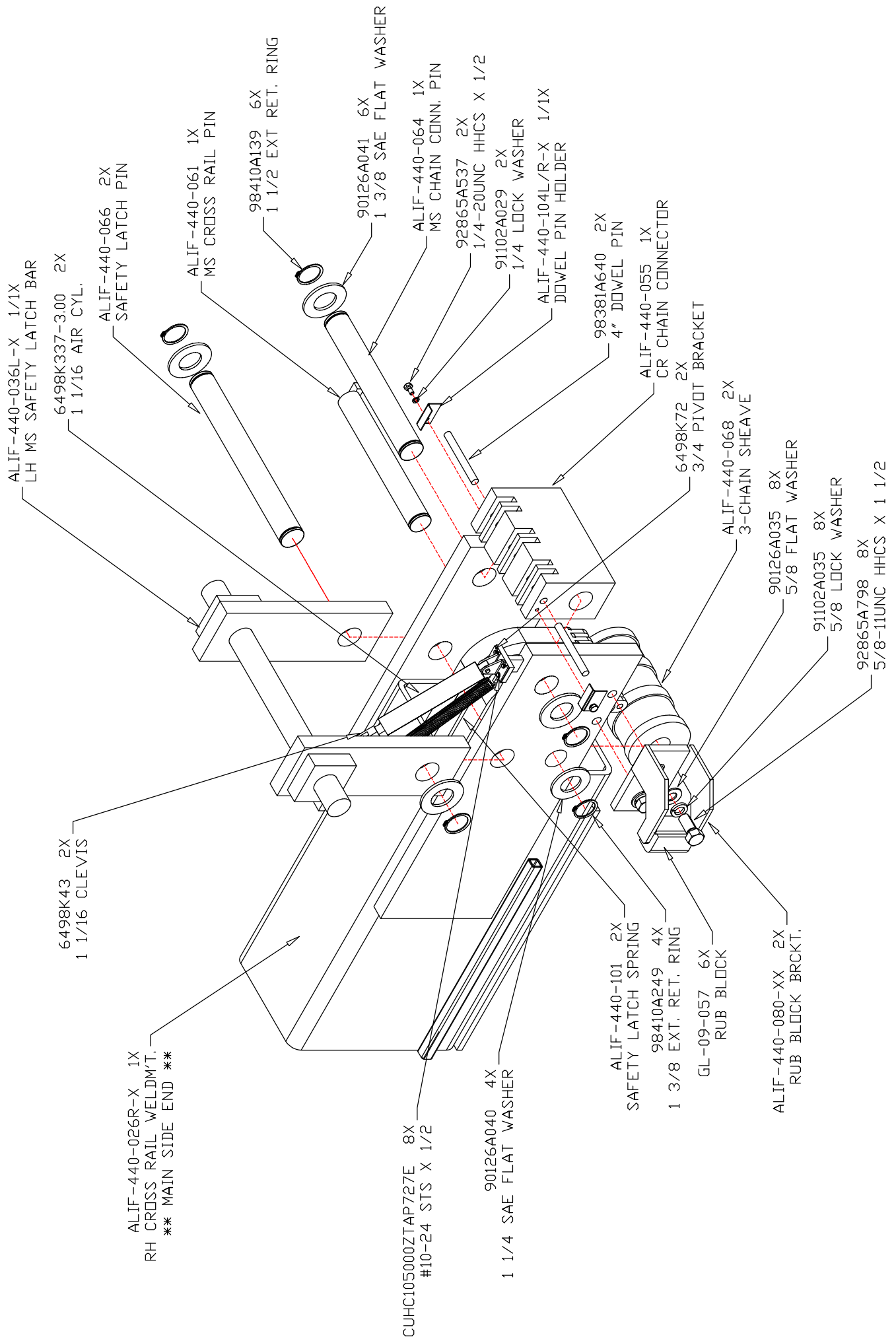


FIG. #10B

# TRACK & RAMP ASSEMBLIES

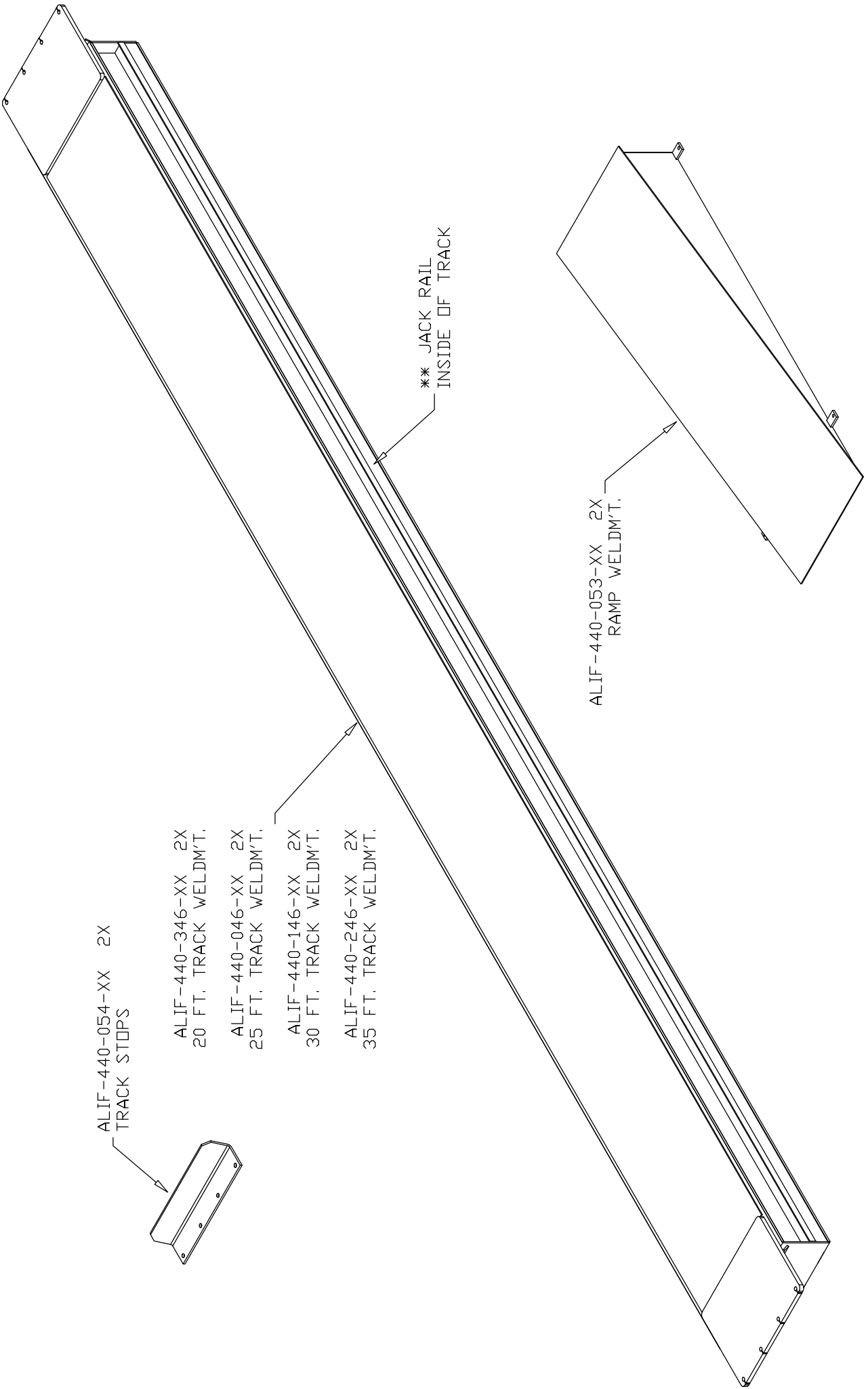


FIG. #11

# 40K LEG ASSEMBLIES

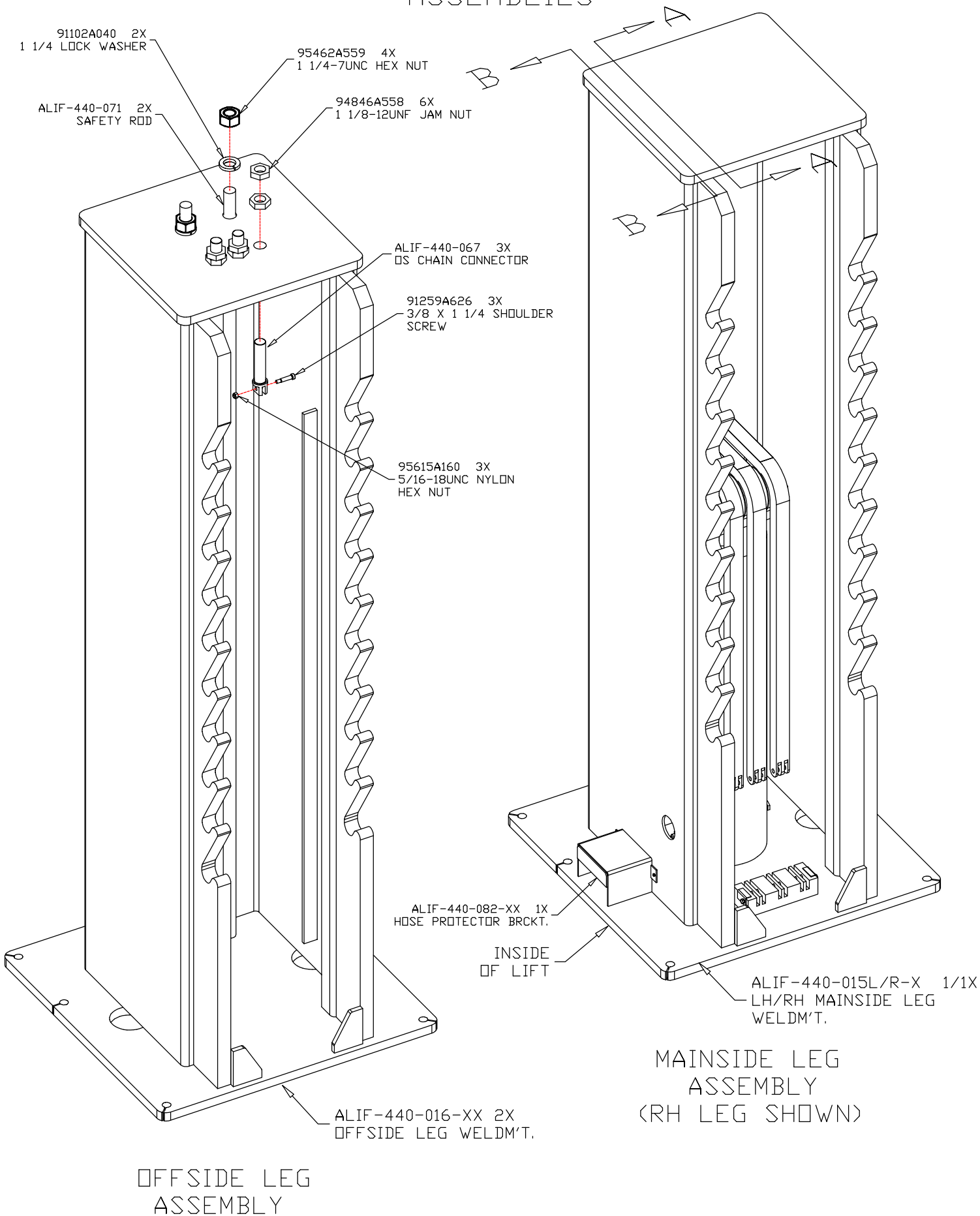


FIG. #12

# MAINSIDE LEG ASSEMBLY

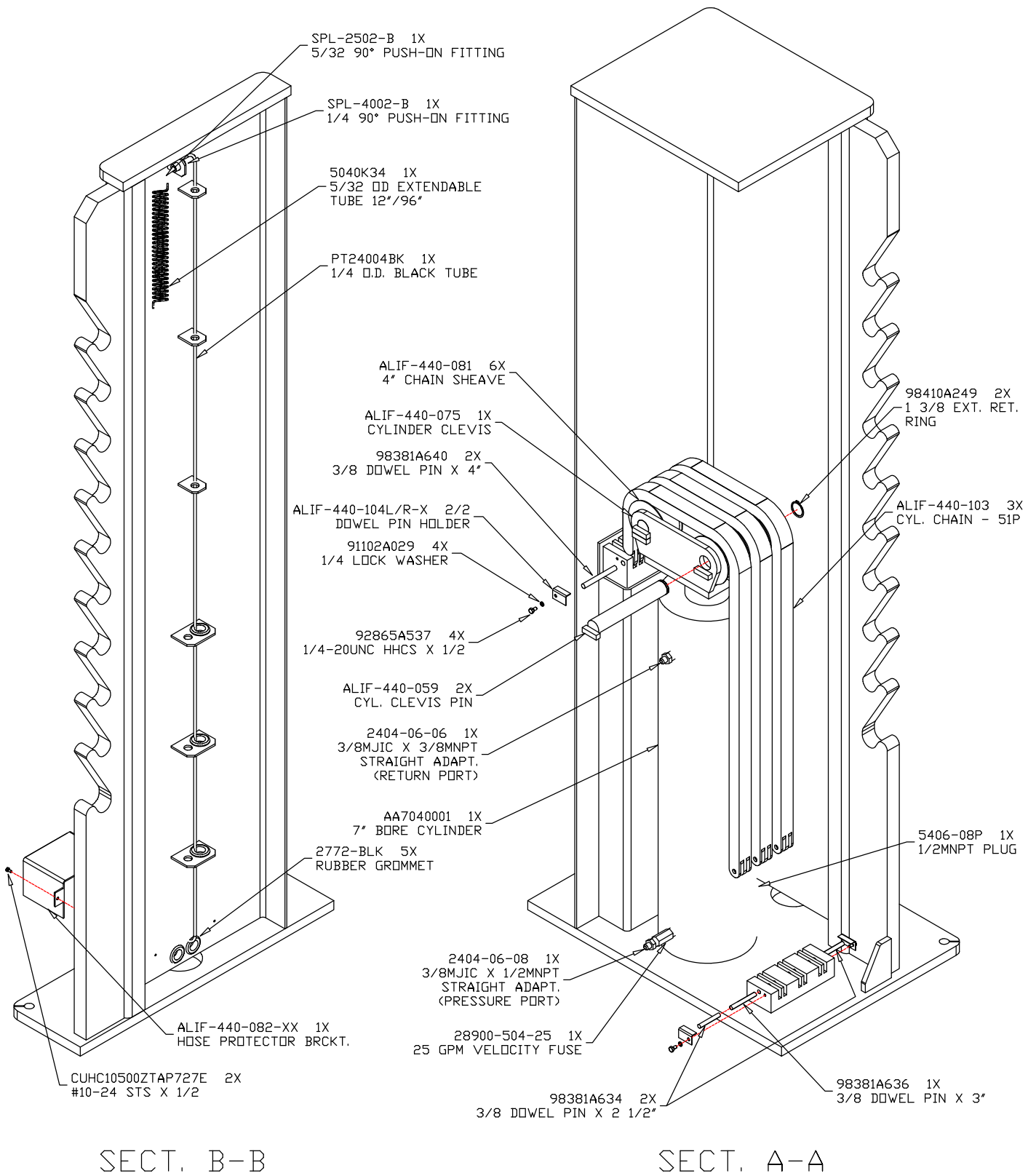


FIG. #13