



Models: HDI225 (100 Series) INGROUND LIFTS

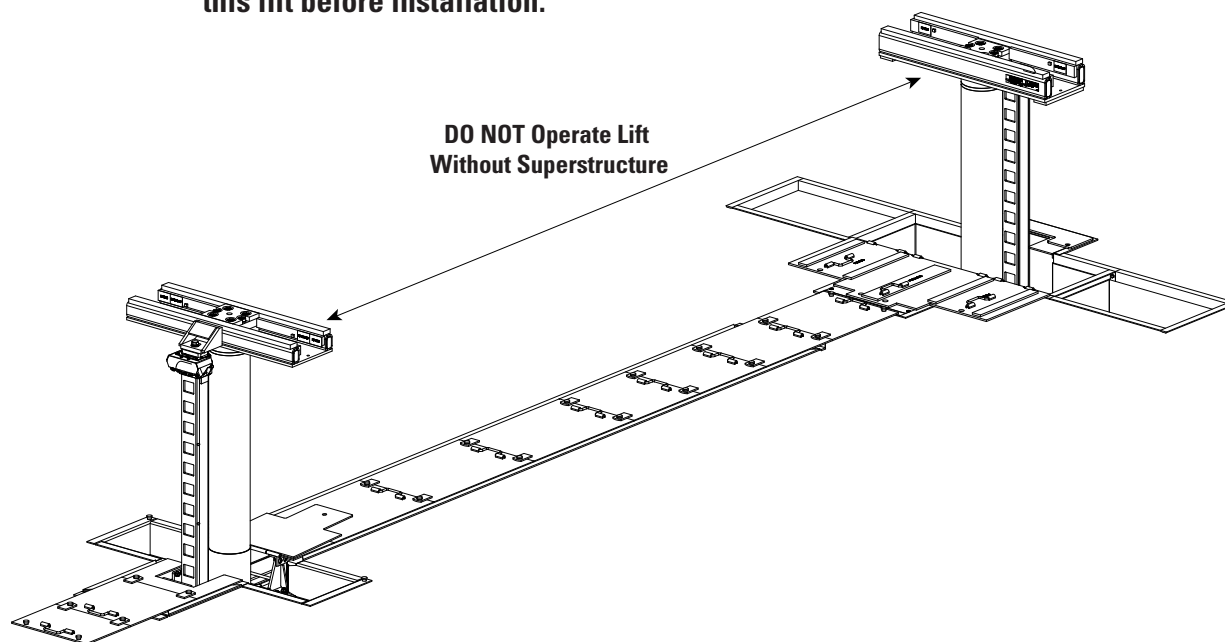
Capacity 50,000lbs.
25,000 lbs. Front Post
25,000 lbs. Rear Post

HDI325 (100 Series) INGROUND LIFTS

Capacity 75,000lbs.
25,000 lbs. Each Post

IMPORTANT

We assume no responsibility for installation errors where instructions other than those shipped with equipment are used. Read all literature and engineering drawings provided with this lift before installation.



Recommended Fluid Specifications for Rotary Lifts

Fluids recommended for use in automotive lifts should conform to the following specifications.

Viscosity Range	150 SUS (32CST) ISO32 / 10W
Aniline Point:	210° F Min.
Viscosity Index:	95 Min.
Additives:	Anti-Foam Anti-Rust Anti-Oxidation
Pour Point:	20° F below operating temp.
Tank Capacity:	28 Gallons

Step 1: Installing Frames

IMPORTANT Refer to correct EFR for proper frame installation. Make sure frames are level within 1/8" per foot left to right and front to rear.

IMPORTANT Never remove shipping braces before housing has been set and the concrete has cured. Refer to local codes for concrete cure times.

A.) Remove shipping braces from front housing, Fig. 1a.

B.) Clean front and rear housings from all debris that would prohibit proper installation of components, Figs. 1 & 1b.

C.) Bolts were put in the holes where concrete could enter the frame. Leave bolts in place.

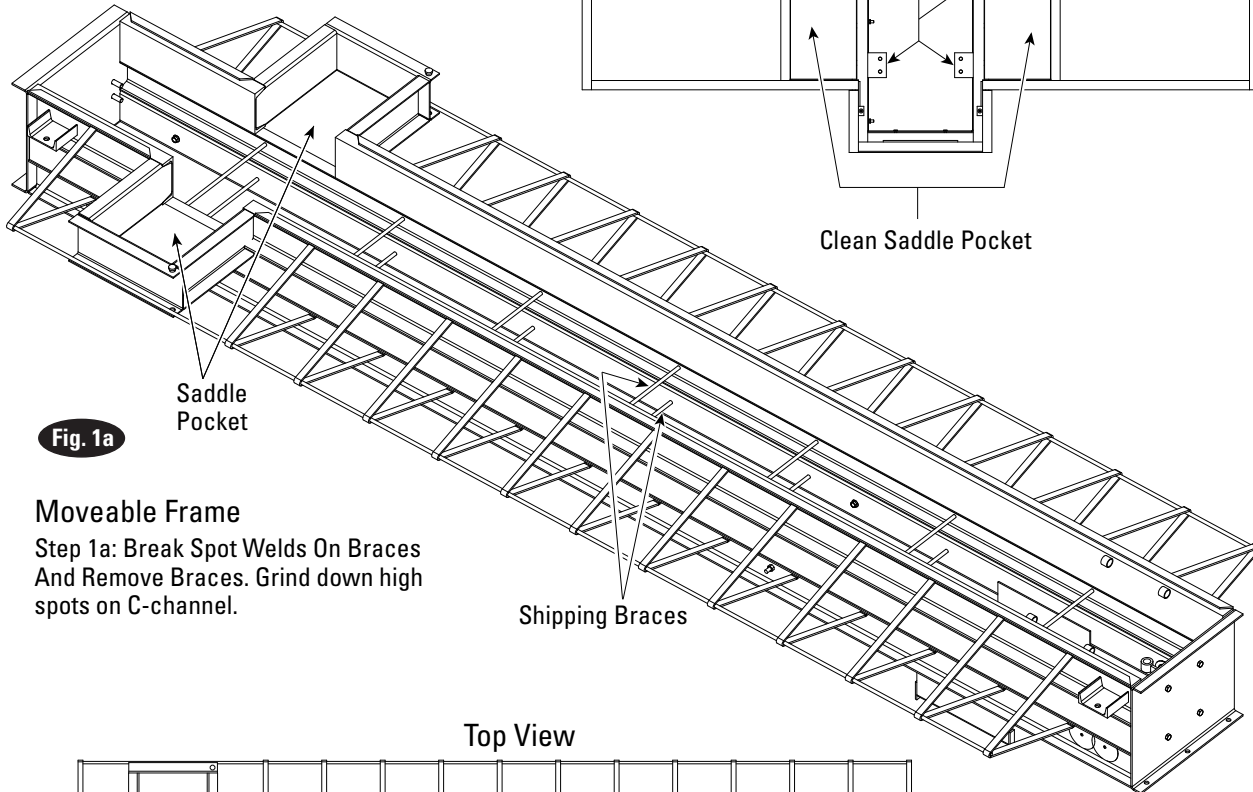
Top View Of Stationary Frame

Clean Power Unit Brackets

Clean Area Where Rear Post Will Be Mounted

Fig. 1

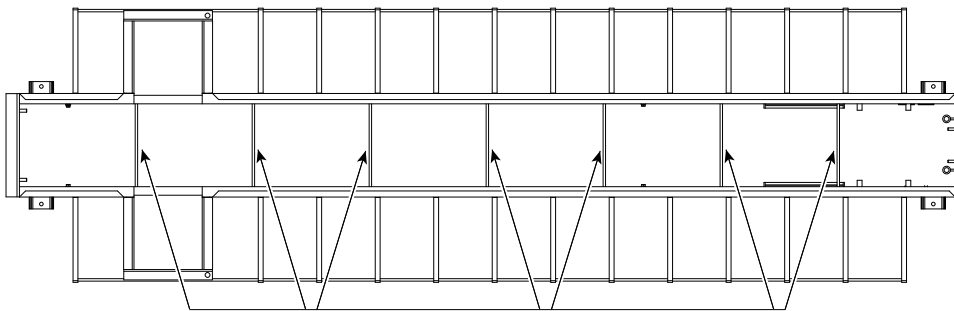
Clean Saddle Pocket



Moveable Frame

Step 1a: Break Spot Welds On Braces And Remove Braces. Grind down high spots on C-channel.

Top View



Step 1a: Remove All Shipping Braces From Frame

Cross Section Of Moveable Frame Track

Clean Saddle Pocket

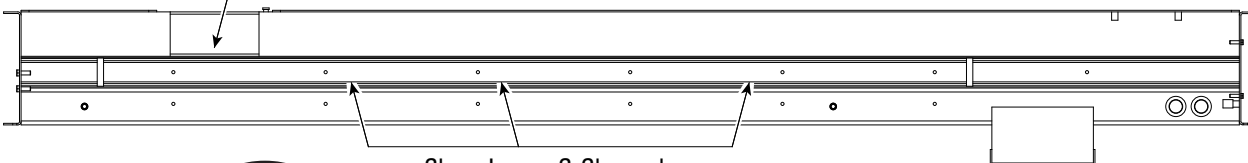
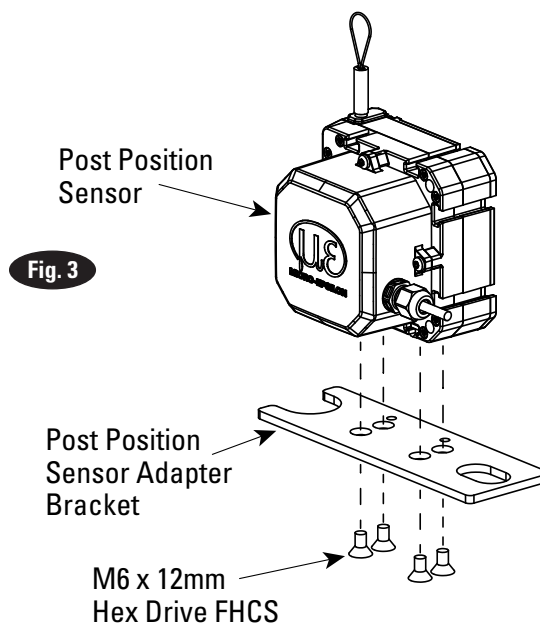


Fig. 1b

Clean Lower C-Channel
(Axle Assembly Travels in C-Channel
Carrying The Post In The Housing)

Step 2: Installing Post Position Sensors Onto Post Position Sensor Adapter Bracket:

A.) Attach post position sensor onto post position sensor bracket using M6 x 12mm hex drive FHCS, Fig. 3.

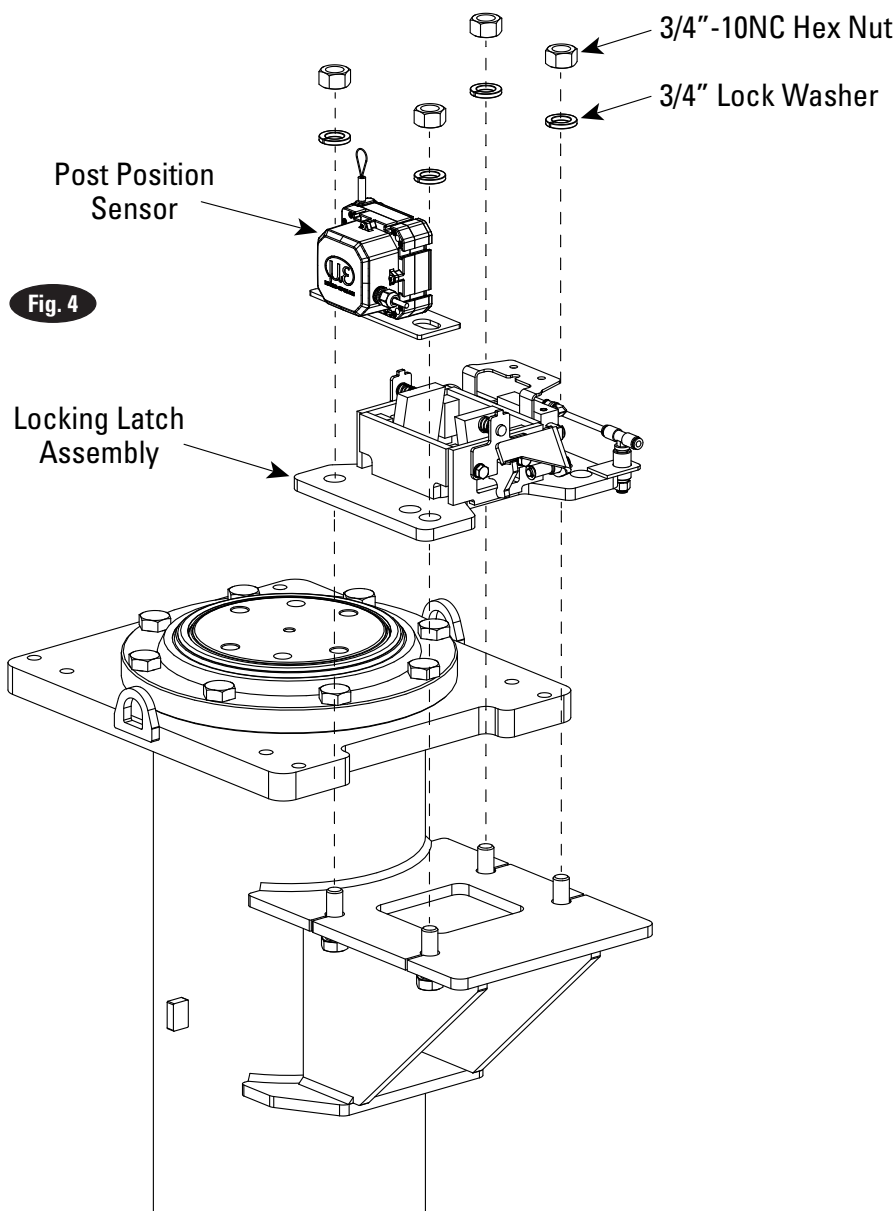


Step 3: Installing Locking Latch Assemblies And Position Sensors To Latch Plates On Stationary Post:

Note: Stationary Post only - All components can be mounted to the posts before lowering them into the front and rear housings.

A.) Install latch assemblies and post position sensors onto latch plates of posts with 3/4"-10NC hex nuts, bolts and lock washers, Fig. 4.

Note: Pay attention to the orientation of the post position sensor mounting. The string protruding out of the top of the sensor goes next to the post.



Step 4: Installing Lock Assembly Into Locking Latch Assembly, Stationary Post:

A.) **IMPORTANT** The stop blocks must be removed before lock assemblies can be lowered into position, Fig. 5.

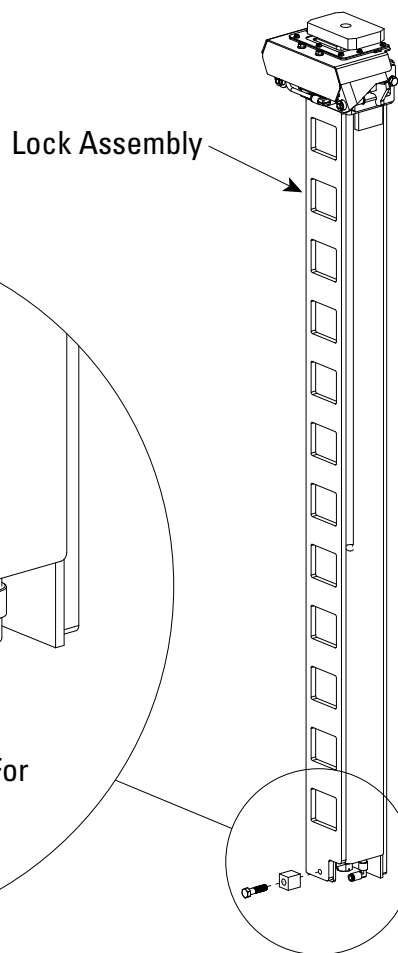
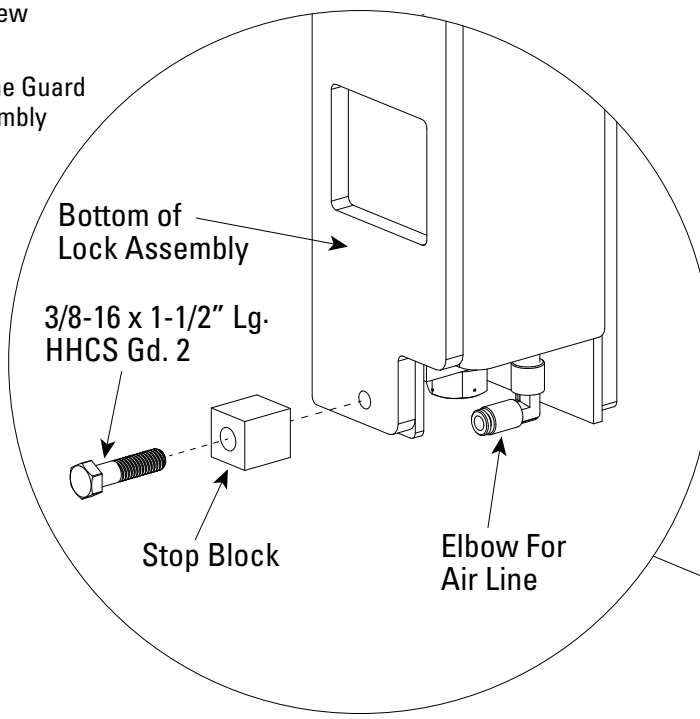
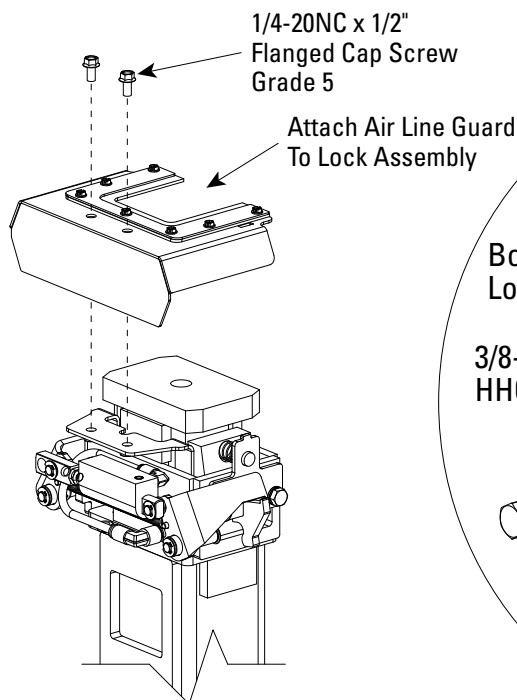
B.) Install air line guard to lock assembly, Fig. 5.

C.) Pull locks back on locking leg assemblies and lower lock assemblies into locking leg assemblies, Fig 5a.

D.) Reinstall the stop blocks after the lock assemblies have been lowered into position.

Fig. 5

Note: When Installing Lock Assembly The Elbow For The Air Line Faces Away From The Post



CAUTION

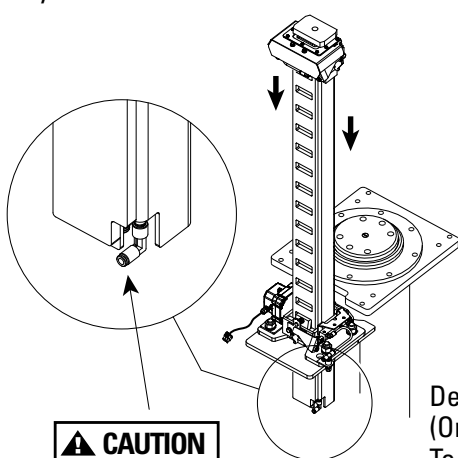
If You Are Lowering The Lock Assembly By Hand Be Aware Of Pinch Points

Fig. 5a

New Lock Assembly

Lock Assembly Rests Here On Latch Assembly

Depress Latches (One On Each Side) To Allow Lock Assembly To Move Down Into Locking Latch Assembly Engage 3rd. Lock From Top To Avoid Damage Of Elbow



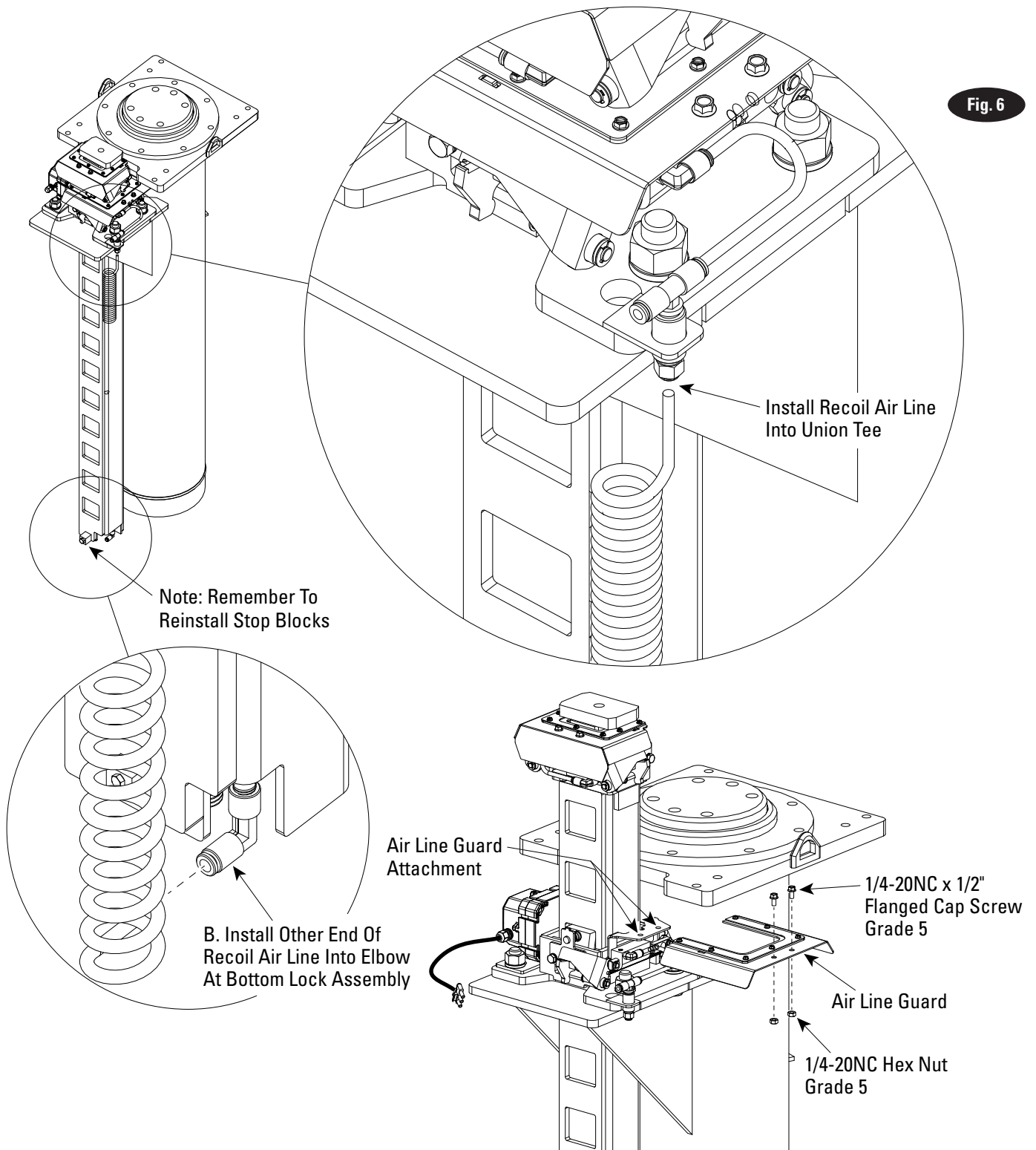
CAUTION

Make Sure Not To Damage Elbow Located On The Bottom Of Lock Assembly

Step 5: Installing Recoil Air Hoses, Stationary Post:

A.) Install recoil air lines per, Fig. 6.

B.) Install second air line guard, Fig. 6.



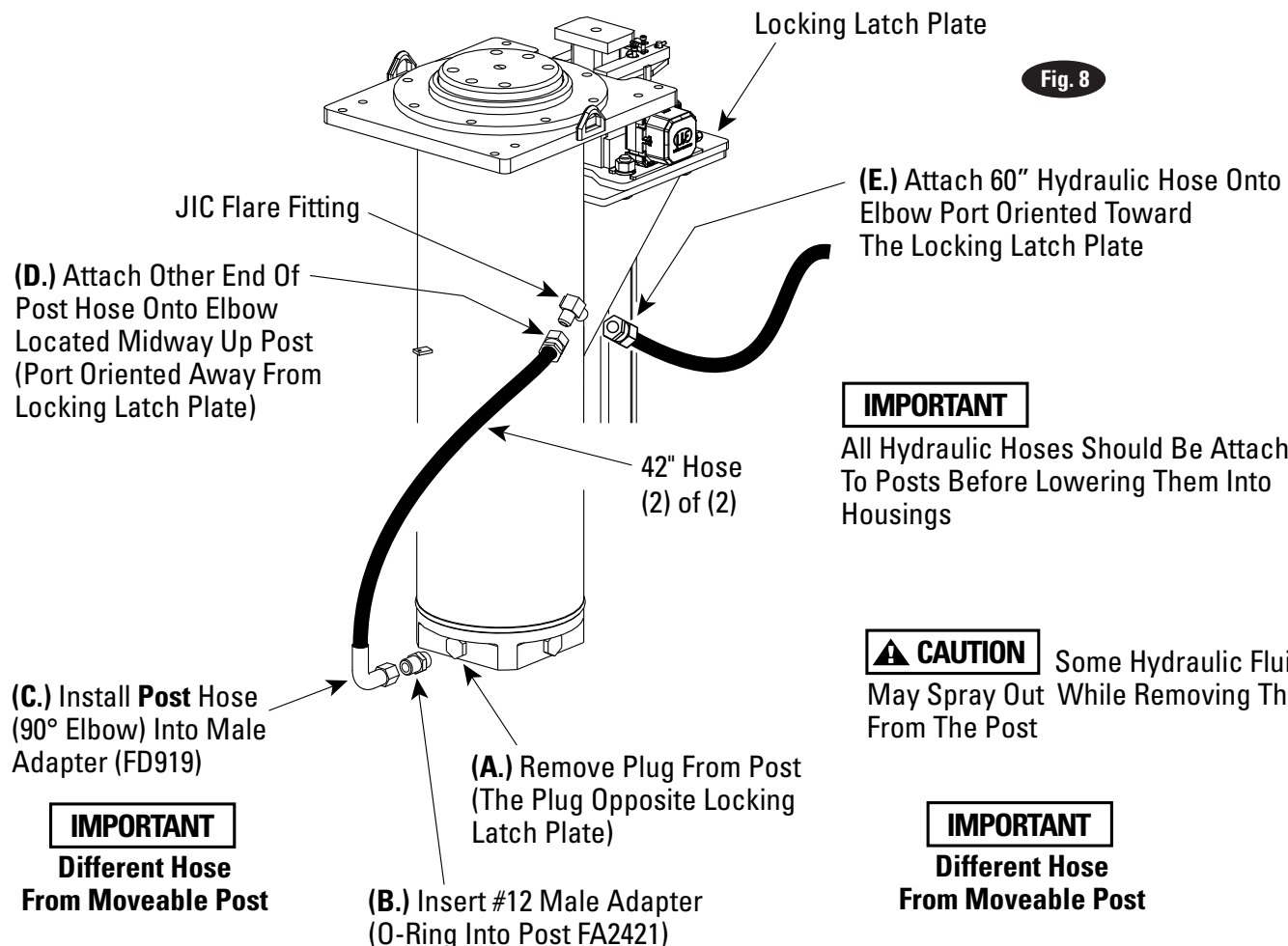
Step 6: Attaching Hydraulic Hoses To Stationary Post:

IMPORTANT Review Figs. 7 and 8 thoroughly before installing hydraulic hoses. Both have 42" hoses but have different fittings.

Note: Longest hose will be installed to moveable post with bracket supports and axle/chain adjustment brackets.

Fig. 7

IMPORTANT Hydraulic Hoses Should Be Installed With Posts Laying down. Laying Posts Down Prevents The Piston In The Post From Pushing Out Too Much Hydraulic Fluid While Installing The Male Adapter And Hydraulic Hose. This Is Important To The Bleeding Procedure Done Later In The Installation.



Flared Fittings Tightening Procedure

1. Screw the fittings together finger tight. Then, tighten to 85 ft lbs or (1-1/4 hex flats).

IMPORTANT Flare seat **MUST NOT** rotate when tightening. Only the nut should turn.

2. Back the fitting off one full turn then re-torque 85 ft lbs or (1 hex flat).

3. This will complete the tightening procedure and develop a pressure tight seal.

IMPORTANT Over tightening will damage fittings resulting in fluid leakage.

IMPORTANT

All Hydraulic Hoses Should Be Attached To Posts Before Lowering Them Into Housings

CAUTION

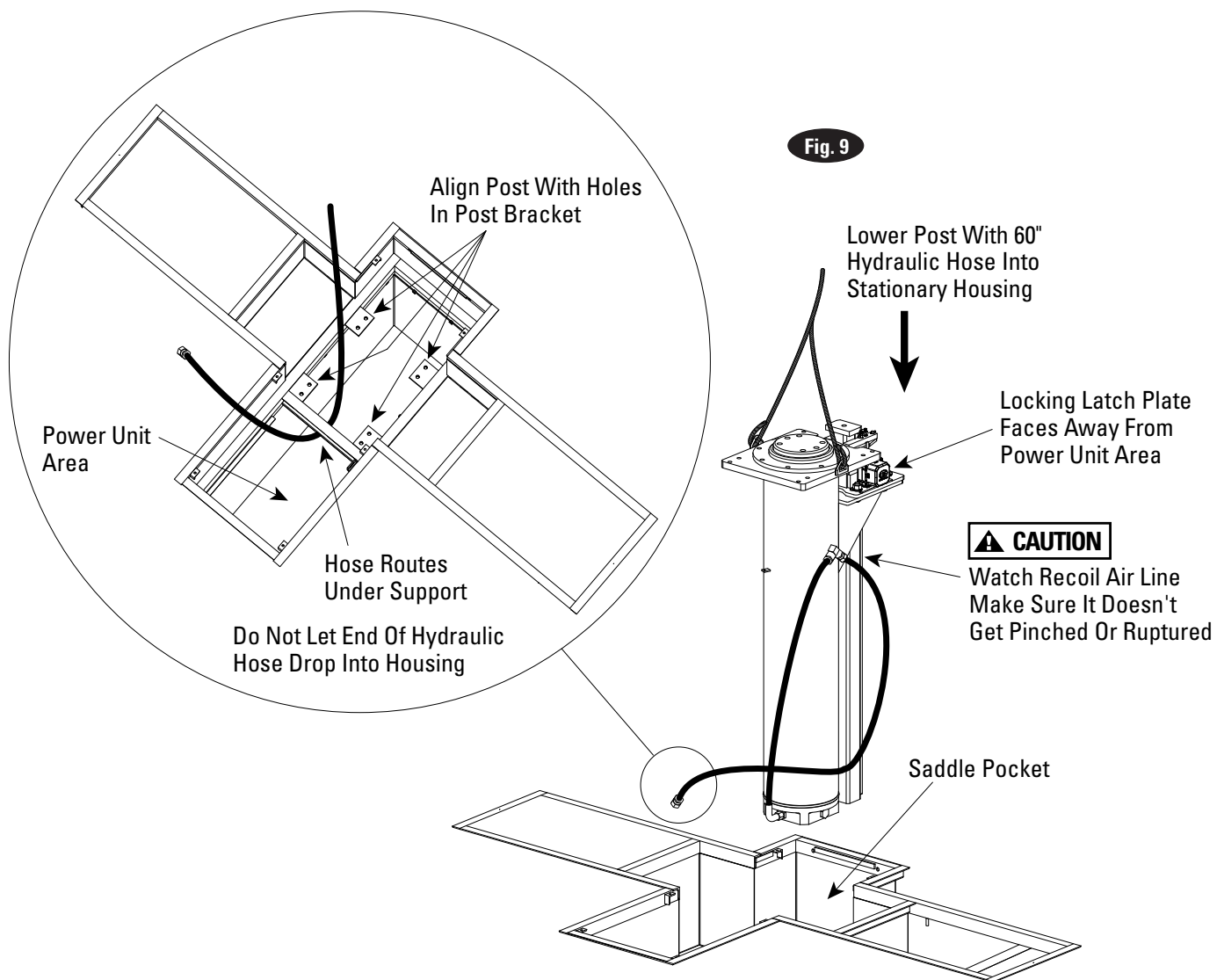
Some Hydraulic Fluid May Spray Out While Removing The Plug From The Post

IMPORTANT

Different Hose From Moveable Post

Step 7: Installing Post Into Stationary Housing:

A.) Lower post into housing, Fig. 9.



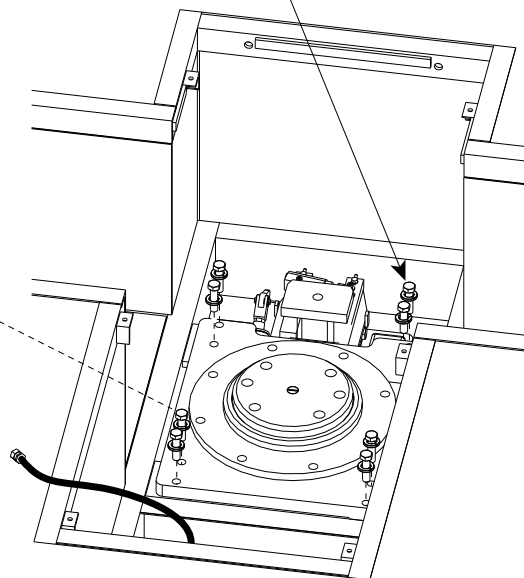
B.) Attach post to stationary housing with 1/2"-13NC x 2-3/4" HHCS, Fig 10.

IMPORTANT Make sure post is plumb.

DO NOT EXCEED
1/8" / Ft. In Shims
Torque Bolts To
60 ft. lb. (Oiled)

Fig. 10

Install (8) 1/2"-13NC x 2-3/4" HHCS
And Lock Washers Grade 8 High Strength



Step 8: Installing Power Unit Into Stationary Housing:

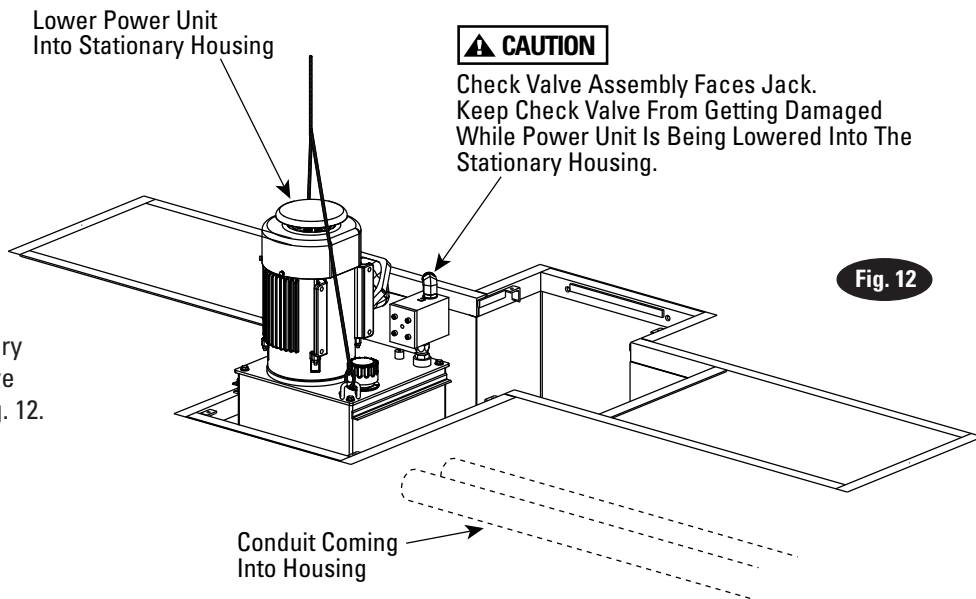
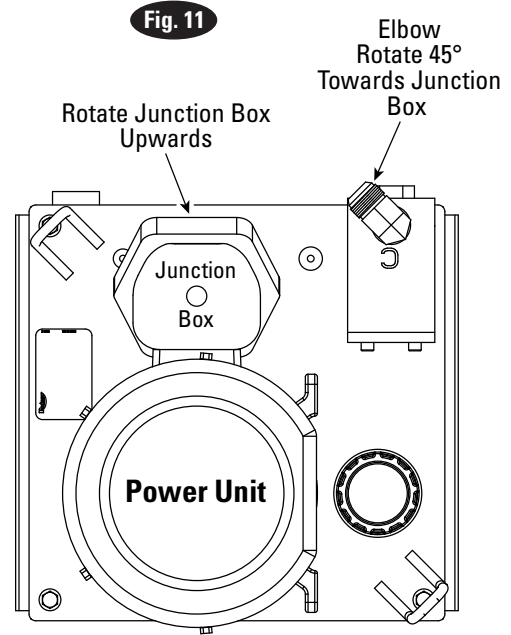
Note: The following illustrations show the installation of the power units. Although not shown you may want to wire all motors before lowering them into the front and rear housings.

A.) Make adjustments to power unit for stationary housing, Fig. 11.

IMPORTANT

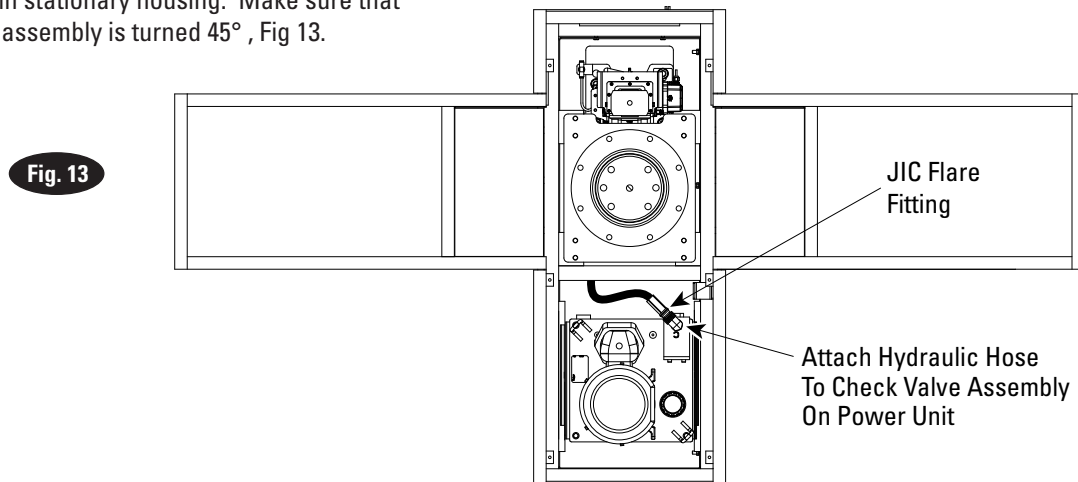
Adjustments Must Be Made To The Stationary Housing Power Unit. These Adjustments Should Be Made Before Lowering It Into The Stationary Housing.

- 1.) Install (1) Male Connector
- 2.) The Junction Box Should Be Rotated With The Hole Facing Upwards



B.) Lower power unit into stationary housing with elbow on check valve assembly facing towards post, Fig. 12.

C.) Attach hydraulic hose in stationary housing. Make sure that the elbow on check valve assembly is turned 45°, Fig 13.



Step 9: Attaching Hydraulic Hoses To Moveable Post:

IMPORTANT Review Figs. 13 and 14 thoroughly before installing hydraulic hoses. Both have 42" hoses but have different fittings.

Note: Longest hose will be installed to moveable post with bracket supports and axle/chain adjustment brackets.

Fig. 13

IMPORTANT Hydraulic Hoses Should Be Installed With Posts Laying down. Laying Posts Down Prevents The Piston In The Post From Pushing Out Too Much Hydraulic Fluid While Installing The Male Adapter And Hydraulic Hose. This Is Important To The Bleeding Procedure Done Later In The Installation.

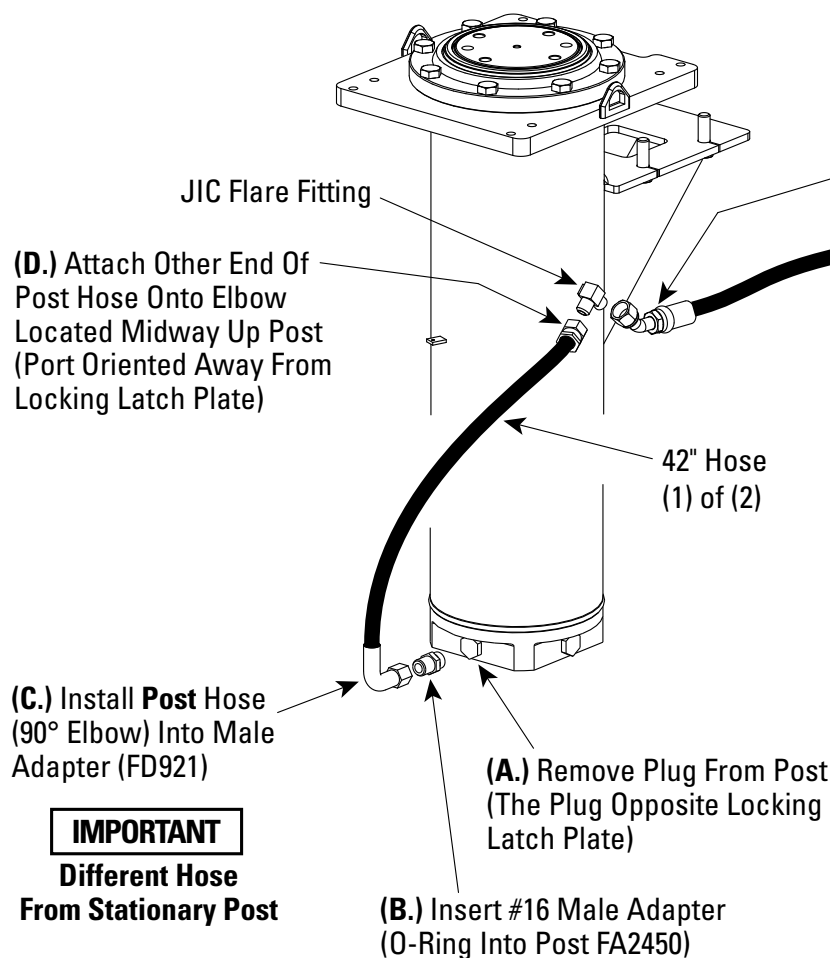


Fig. 14

Flared Fittings Tightening Procedure

1. Screw the fittings together finger tight. Then, tighten to 85 ft lbs or (1-1/4 hex flats).

IMPORTANT Flare seat **MUST NOT** rotate when tightening. Only the nut should turn.

2. Back the fitting off one full turn then re-torque 85 ft lbs or (1 hex flat).

3. This will complete the tightening procedure and develop a pressure tight seal.

IMPORTANT Over tightening will damage fittings resulting in fluid leakage.

IMPORTANT

All Hydraulic Hoses Should Be Attached To Posts Before Lowering Them Into Housings Moveable Post Hose To Be Attached So It Runs Straight Out From Post

CAUTION

Some Hydraulic Fluid May Spray Out While Removing The Plug From The Post

IMPORTANT

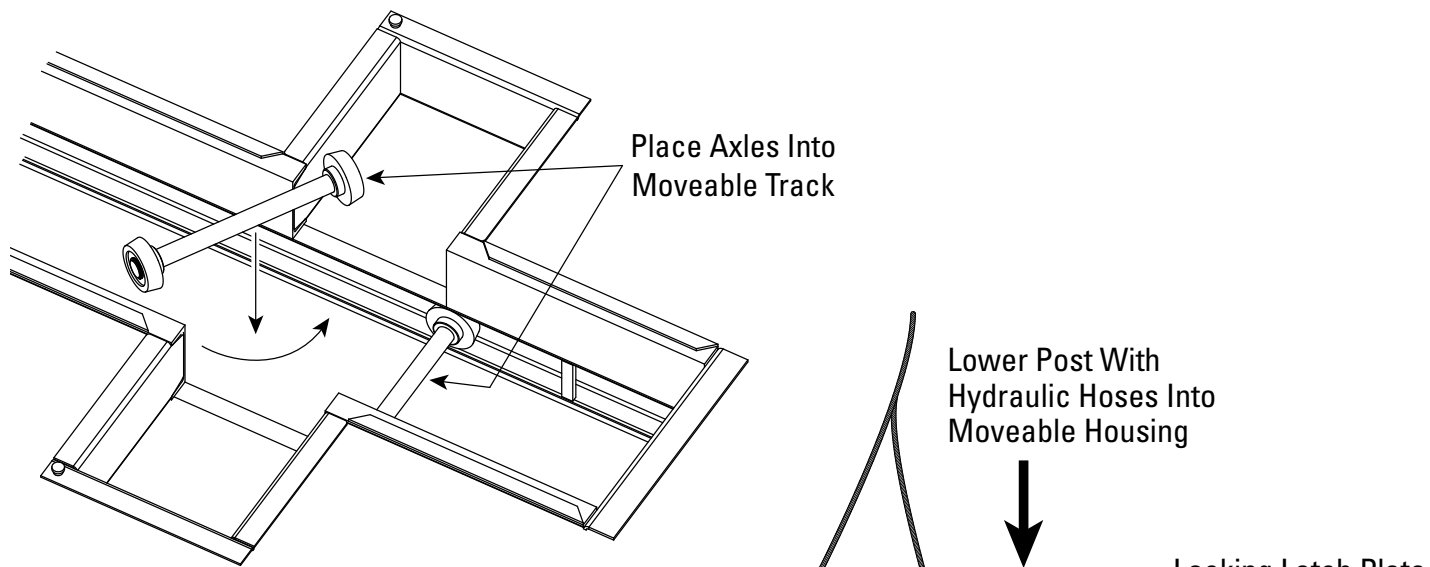
Different Hose From Stationary Post

Step 10: Install Moveable Jack Axle Assembly Into Moveable Housing:

A.) Install jack axle assembly into moveable housing by inserting into axle channel at an angle and turning perpendicular to housing as shown, Fig. 15.

B.) Install second axle assembly.

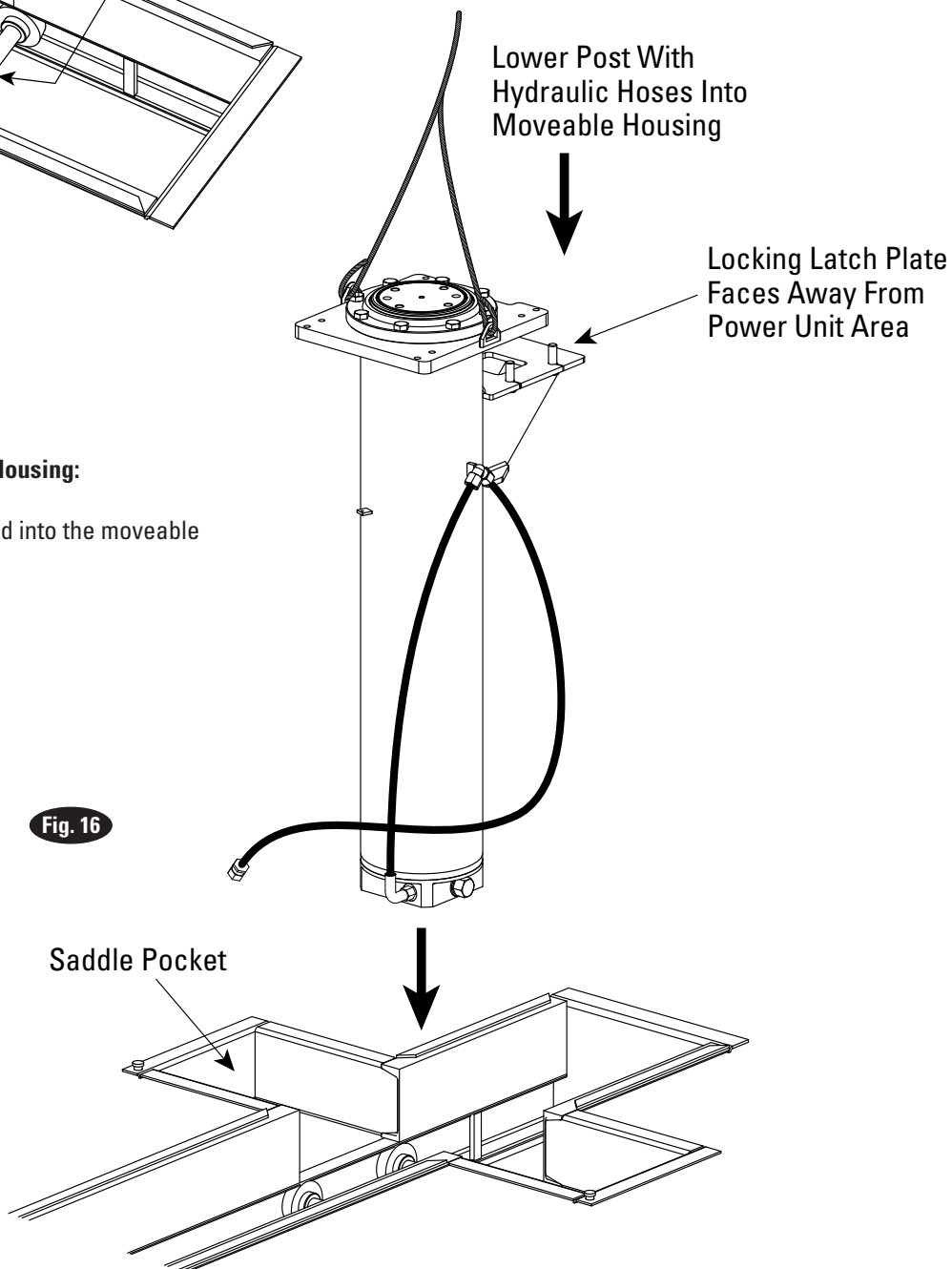
Fig. 15



Step 11: Lowering Post Into Moveable Housing:

A.) Lower post with longer hose attached into the moveable housing, Fig. 16.

Fig. 16



Step 12: Installing Bracket Supports And Axle/Chain Adjustment Brackets, Movable Post:

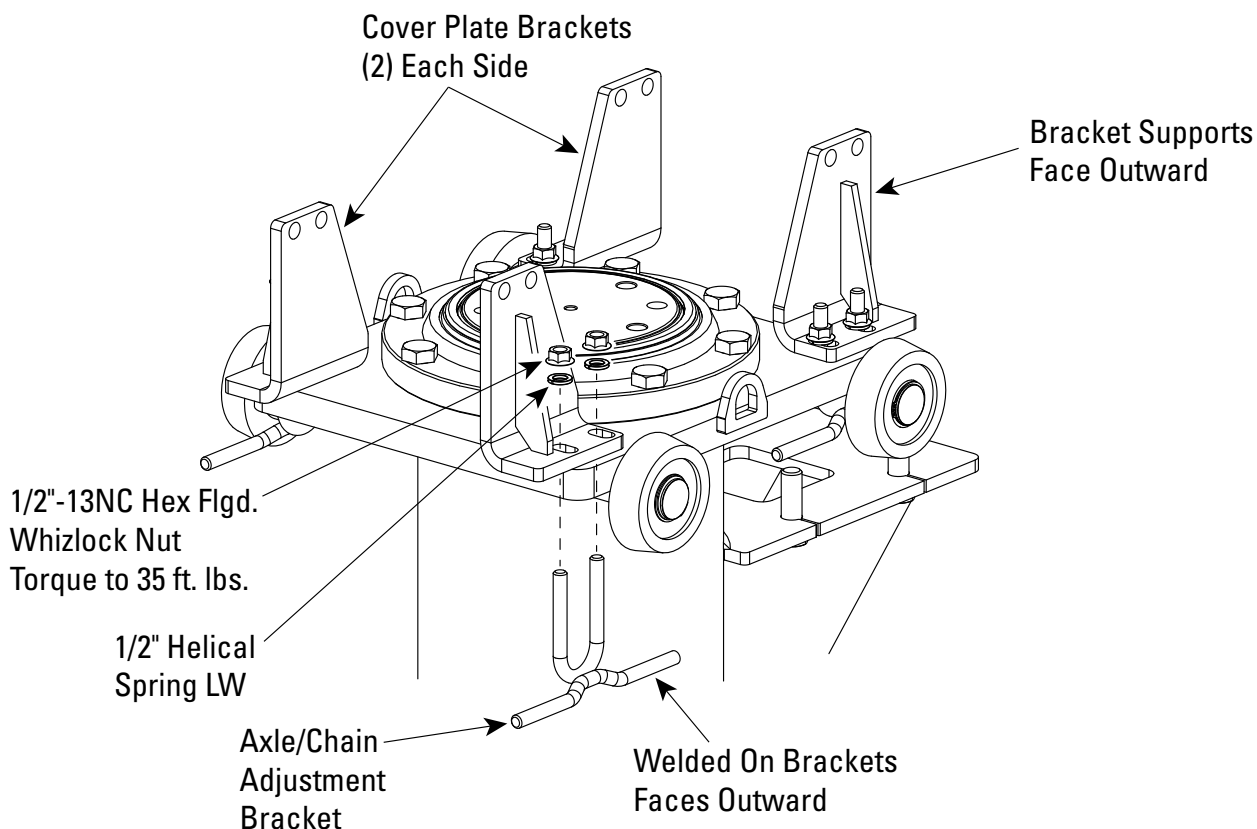
A.) Install bracket supports and axle/chain adjustment brackets with (8) 1/2" whizlock hex nuts and 1/2" LW, torque to 35 ft. lbs., Fig. 17.

B.) Roll installed post into saddle pocket, Fig. 16.

Fig. 17

IMPORTANT

Do Not Tighten Fasteners Completely.
Adjustments Will Be Made After Shutter Plate Installation.



Step 13: Installing Post Position Sensors Onto Post Position Sensor Adapter Bracket:

A.) See **Step 2**, same installation process as stationary post.

Step 14: Installing Locking Latch Assemblies And Position Sensors To Latch Plates On Moveable Post:

A.) See **Step 3**, same installation process as stationary post.

Step 15: Installing Lock Assembly Into Locking Latch Assembly, Moveable Post:

A.) See **Step 4**, same installation process as stationary post.

Step 16: Installing Recoil Air Hoses, Moveable Post:

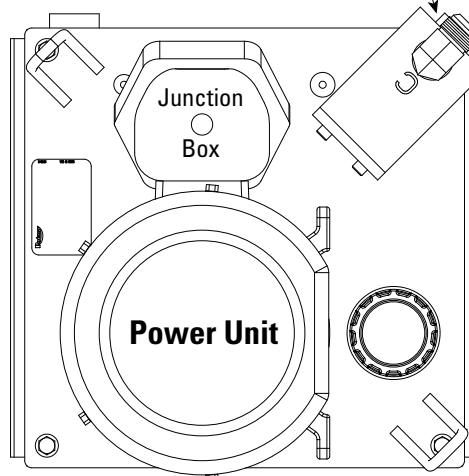
A.) See **Step 5**, same installation process as stationary post.

IMPORTANT

Several types of motors are used on the hydraulic tank assemblies. Adjustments may be needed to the check valve if it rubs against the power unit.

The check valve should only be rotated just enough to keep it from rubbing against the power unit. If it's rotated too much it may interfere with the drive chain from the drive in the moveable housing. Interference issues should be checked during the installation of the drive chain.

Check Valve
Rotate 45°
Towards Housing



Step 17: Lowering The Power Unit Into Moveable Housing:

Note: The following illustrations show the installation of the power units. Although not shown you may want to wire all motors before lowering them into the front and rear housings.

A.) Lower power unit and tank into front housing and onto the power unit bracket just behind the position sensor, Fig. 18.

Install Elbow (#16 JIC) Before Lowering Power Unit Into Housing. Elbow For Hydraulic Hose Faces Post

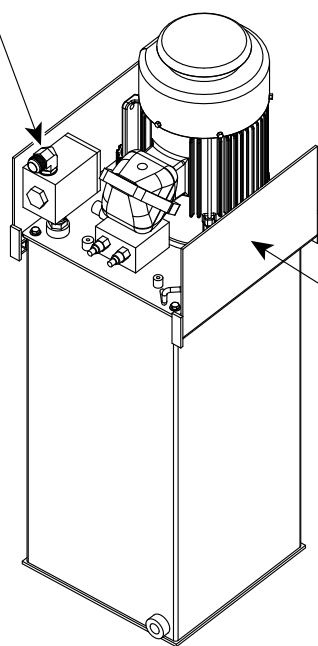
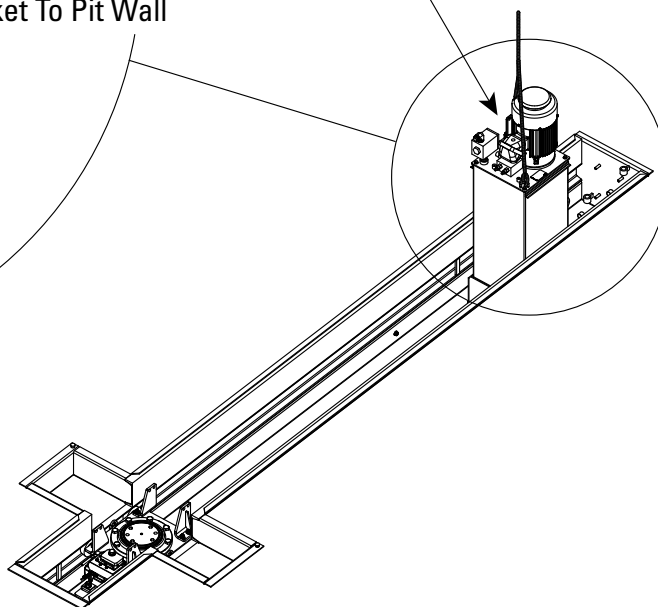


Fig. 18

CAUTION

Keep Check Valve Assembly From Getting Damaged While Power Unit Is Being Lowered Into Front Housing

Lower Power Unit Into Front Pit



IMPORTANT Review Figs. 19 and 20 thoroughly before installing hydraulic hoses.

Note: Longest hose will be installed to moveable post with bracket supports and axle/chain adjustment brackets.

Fig. 19

Flared Fittings Tightening Procedure

1. Screw the fittings together finger tight. Then, tighten to 85 ft lbs or (1-1/4 hex flats).

IMPORTANT Flare seat **MUST NOT** rotate when tightening. Only the nut should turn.

2. Back the fitting off one full turn then re-torque 85 ft lbs or (1 hex flat).

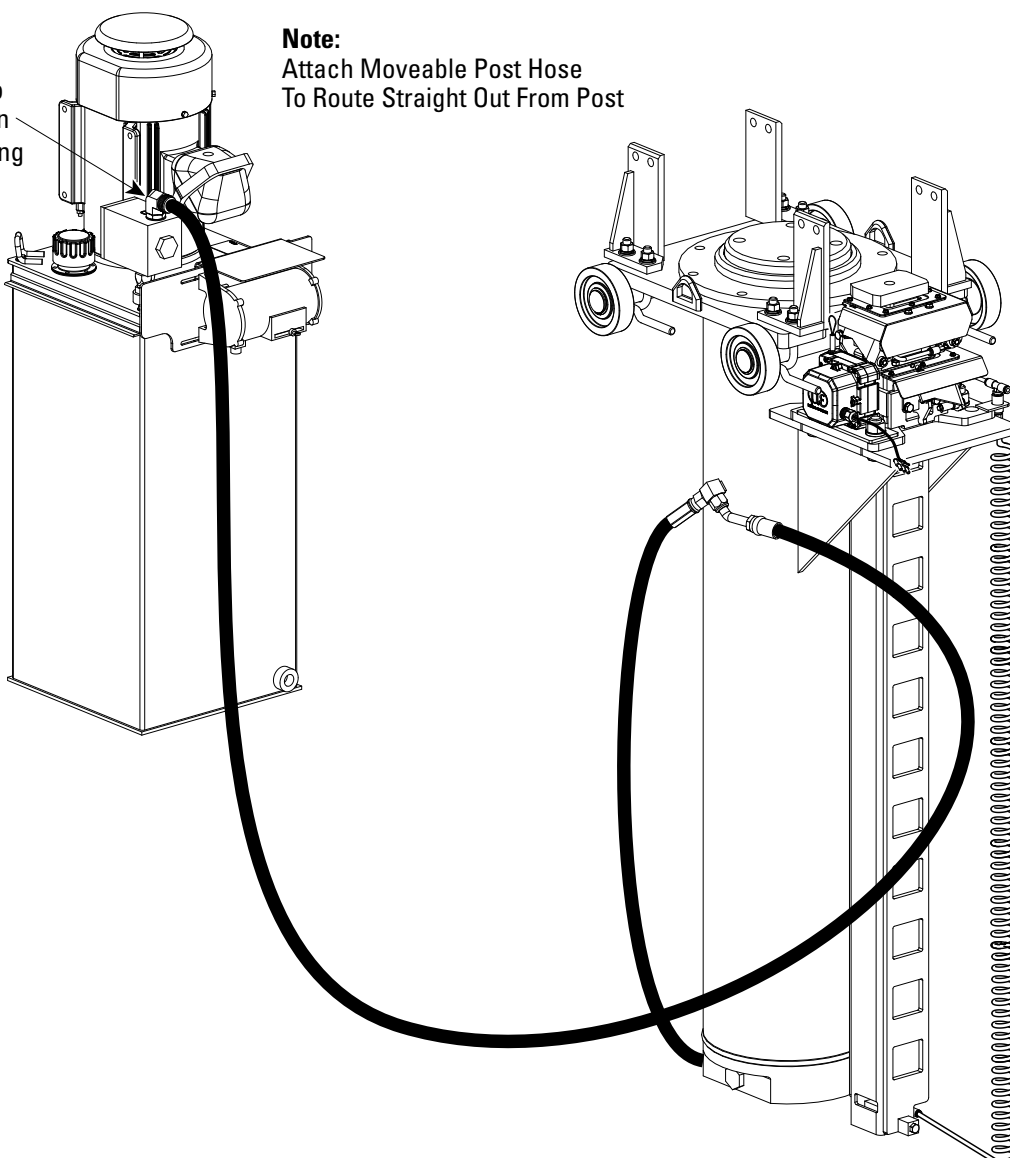
3. This will complete the tightening procedure and develop a pressure tight seal.

IMPORTANT Over tightening will damage fittings resulting in fluid leakage.

Attach Hydraulic Hose To
Check Valve Assembly On
Power Unit JIC Flare Fitting
(90° Fitting)

Fig. 20

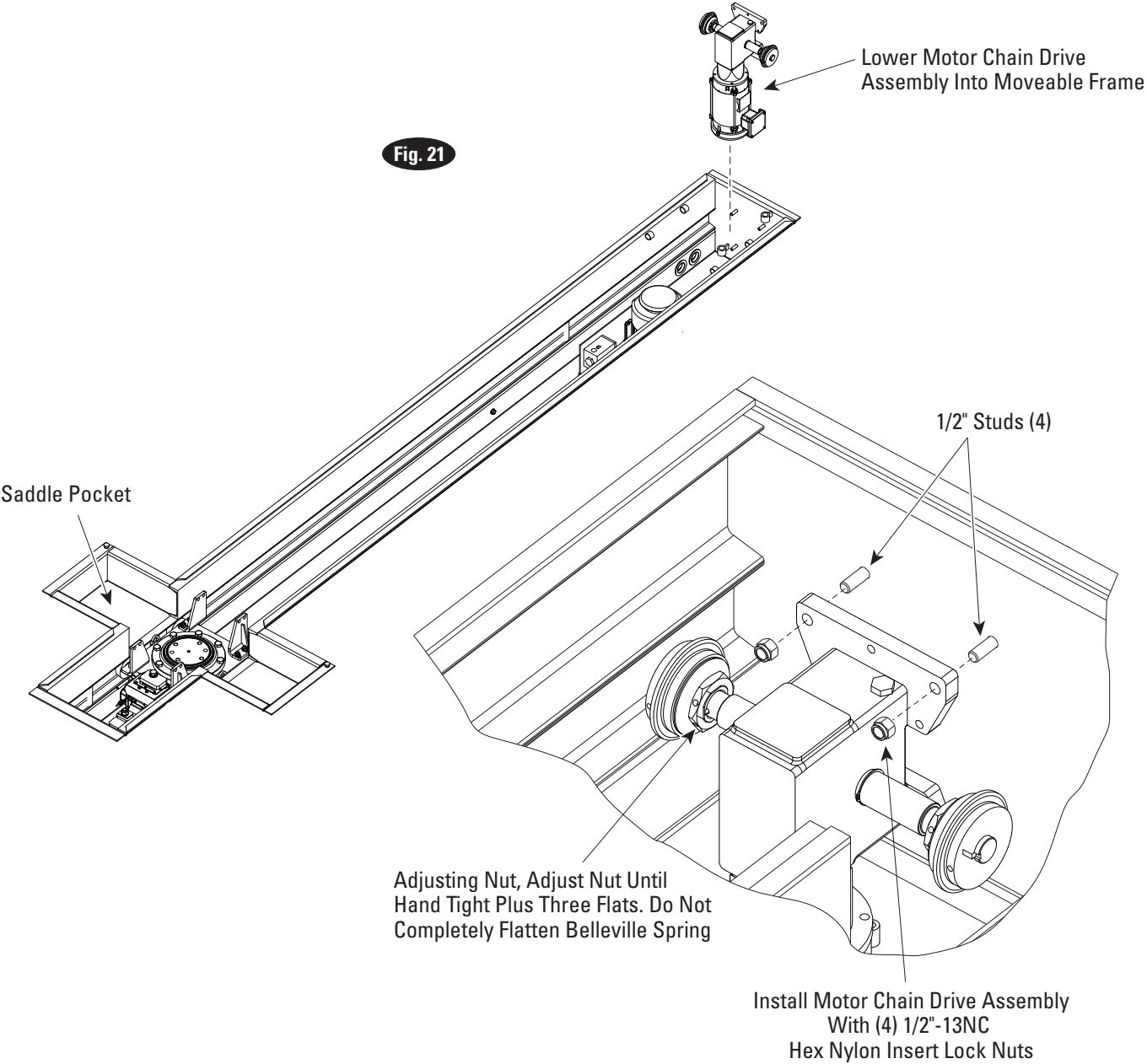
Note:
Attach Moveable Post Hose
To Route Straight Out From Post



Step 18: Installing The Motor Chain Drive Assembly:

A.) Install the motor chain drive assembly in the end of the moveable frame, (end opposite saddle pocket), with 1/2"-13NC hex nylon insert lock nuts, Fig. 21.

Fig. 21



Step 19: Filling Power Unit Tanks:

A.) Fill power unit tanks with hydraulic fluid (see Fig. 22 for fluid specifications.)

Step 20: Running Air Lines, Connecting Position Sensors and Wiring Motors:

Figures 29-34 are simplified overviews of the components in both front and rear pits. Before installing air lines, connecting position sensors, and wiring power unit motors review all illustrations pertaining to these components in the pages to follow.

IMPORTANT Review Fig 39.
Determine lift configuration to control panel. Notice (1) is always to the left when viewing lift from behind control panel.

IMPORTANT All electrical work must be done by a qualified electrician adhering to all local, state and national codes. Full schematics provided in the back.

Recommended Fluid Specifications for Rotary Lifts

Fluids recommended for use in automotive lifts should conform to the following specifications.

Viscosity Range: 150 SUS (32CST) ISO32 / 10W

Aniline Point: 210° F Min.

Viscosity Index: 95 Min.

Additives: Anti-Foam

Anti-Rust

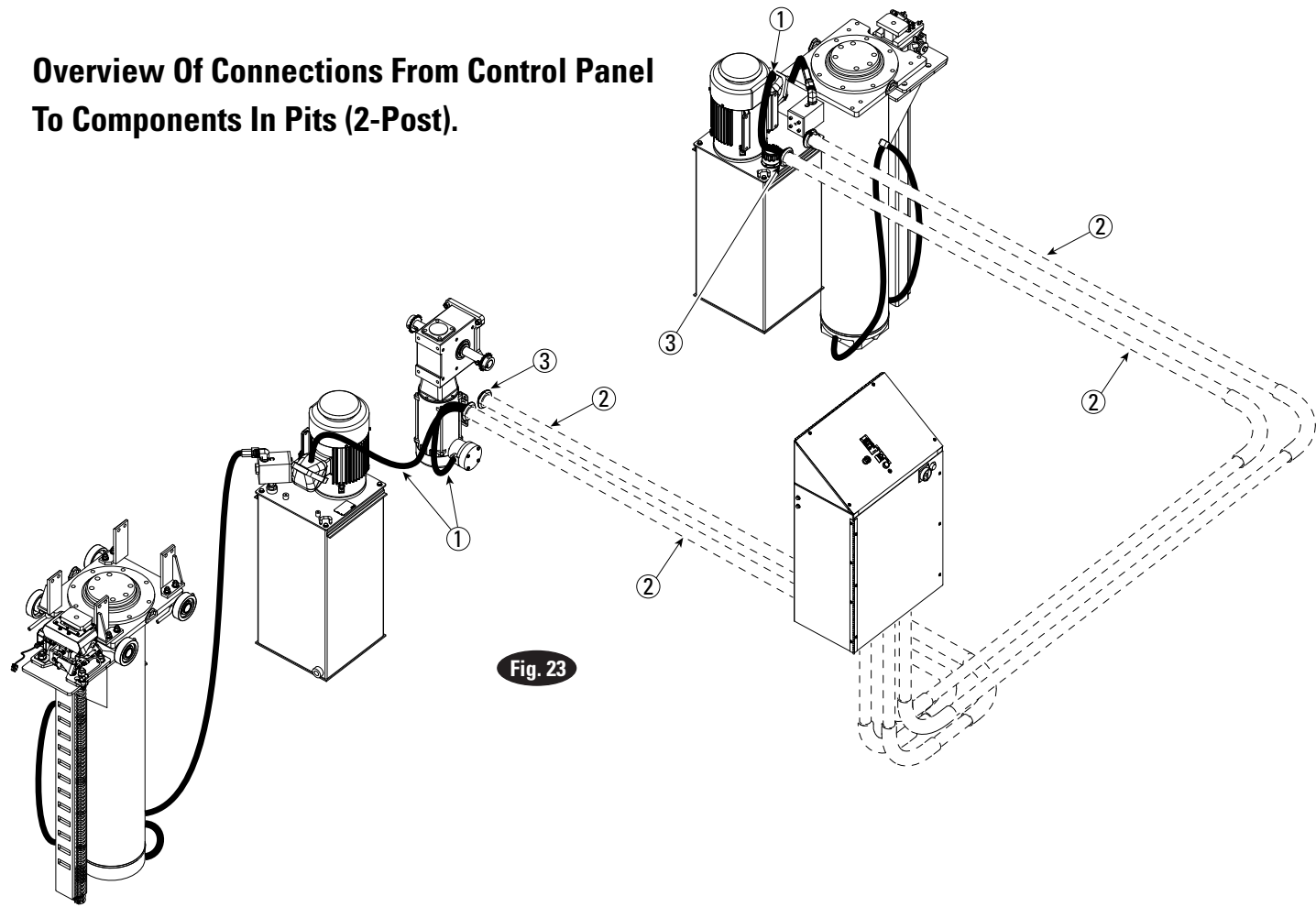
Anti-Oxidation

Pour Point: 20° F below operating temp.

Tank Capacity: 28 Gallons (MOD35 Series Lifts)

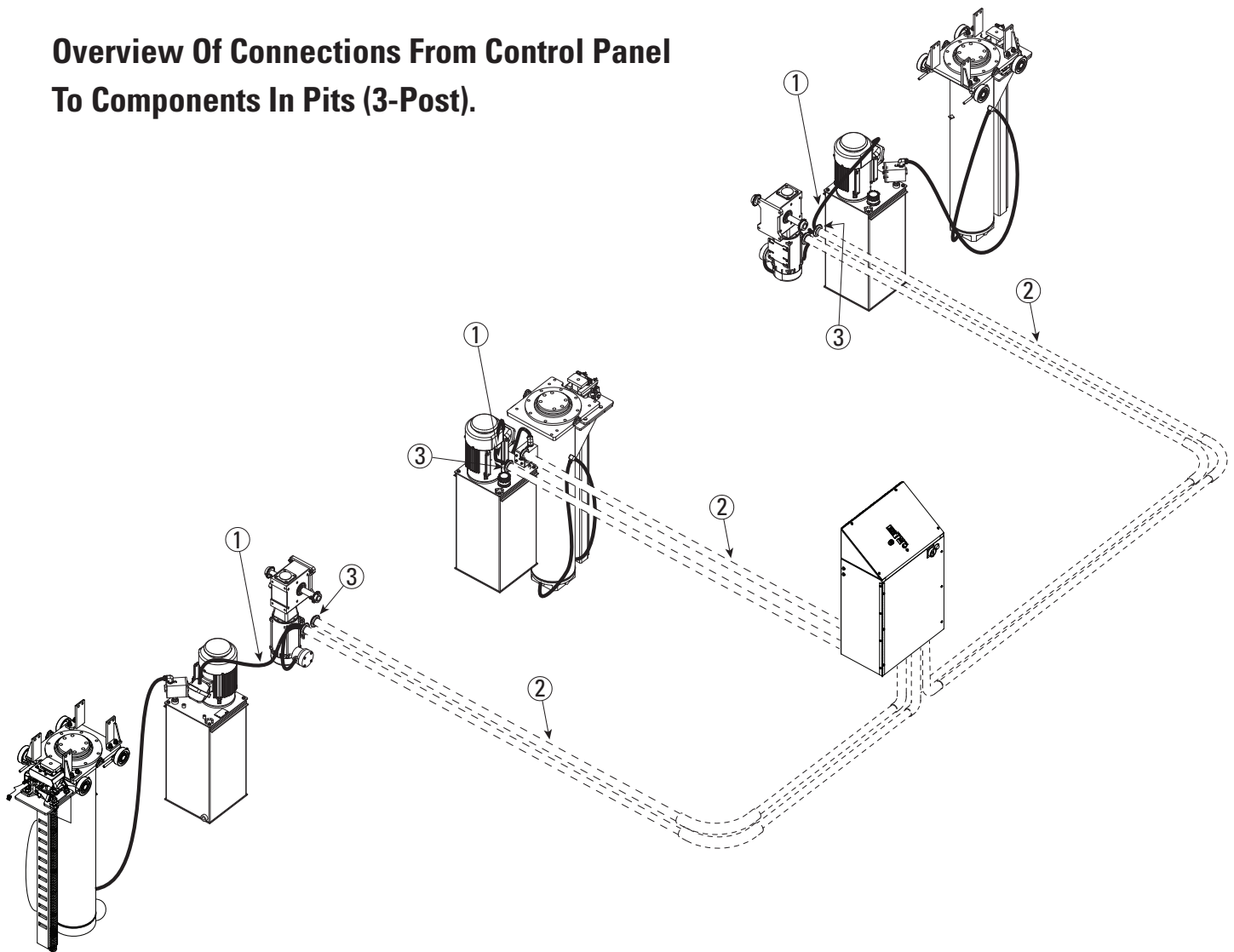
Fig. 22

IMPORTANT Field wiring in hazardous locations are involved with the installation of this product. Review your planned wiring methods with your local Authority Having Jurisdiction (AHJ)/Inspector prior to construction, and covering of conduits.



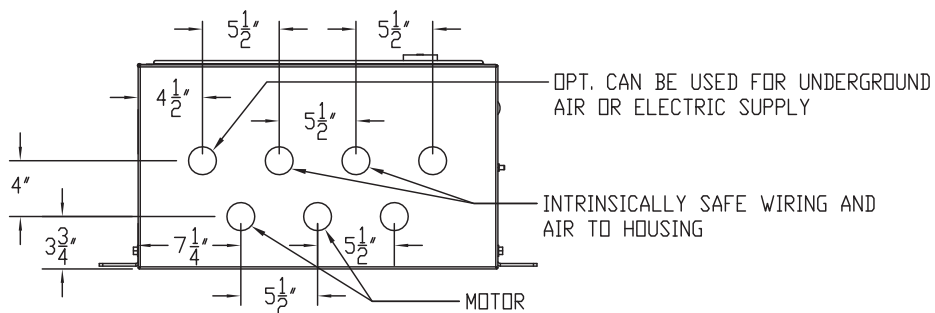
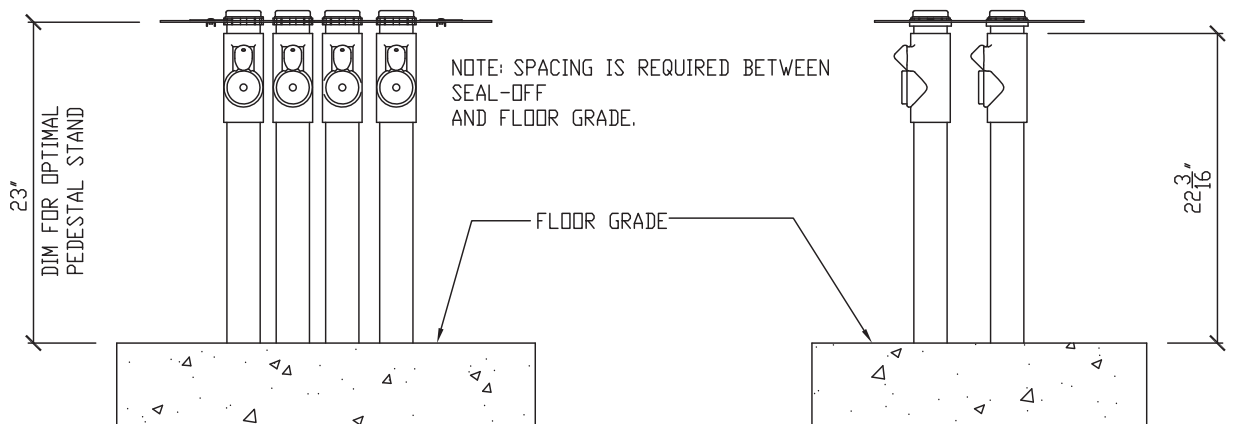
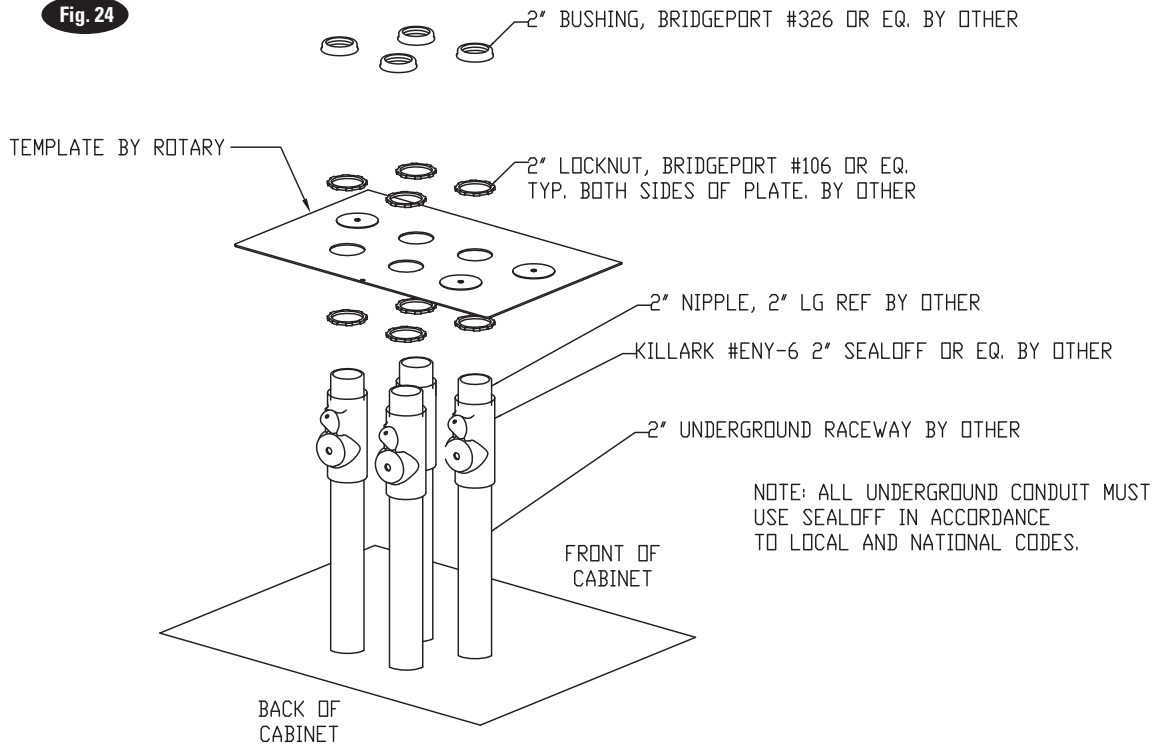
1	Type MC-HL Metal - Clad Cable, 4 Conductor, 600V Minimum, For Use In Class 1, Div. 1, Hazardous Locations. Fittings Must Be Compatible With Cable And Suitable For Class 1, Div. 1, Hazardous Locations From Outlet Boxes To Electric Motors In Housings (See Wiring Schematic).
2	All Service Lines Run To And From Control Panel Through Underground Electrical Conduit Or Raceway.
3	2" Rubber Grommets Required At Each End Of Buried Underground Electrical Conduit Or Raceway.

Overview Of Connections From Control Panel To Components In Pits (3-Post).

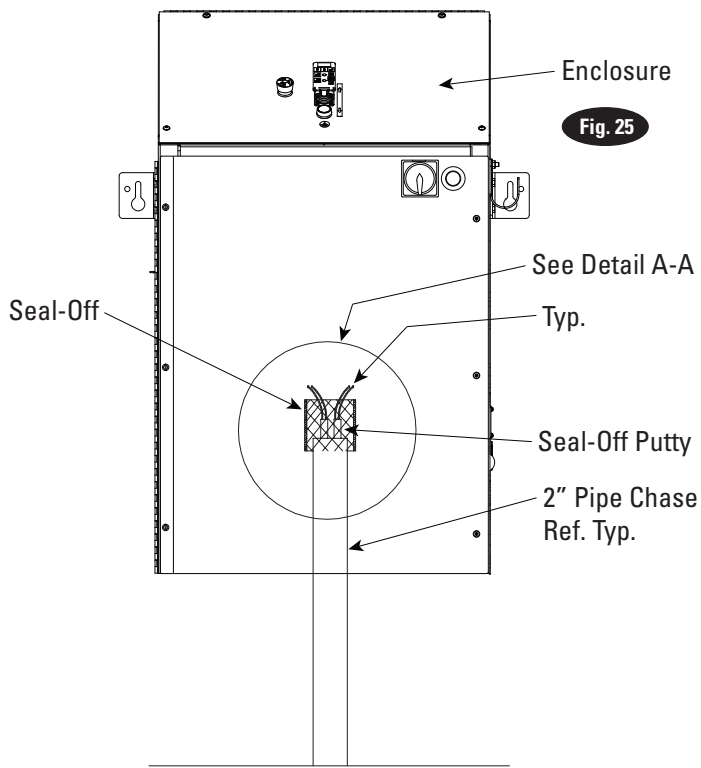


1	Type MC-HL Metal - Clad Cable, 4 Conductor, 600V Minimum, For Use In Class 1, Div. 1, Hazardous Locations. Fittings Must Be Compatible With Cable And Suitable For Class 1, Div. 1, Hazardous Locations From Outlet Boxes To Electric Motors In Housings (See Wiring Schematic).
2	All Service Lines Run To And From Control Panel Through Underground Electrical Conduit Or Raceway.
3	2" Rubber Grommets Required At Each End Of Buried Underground Electrical Conduit Or Raceway.

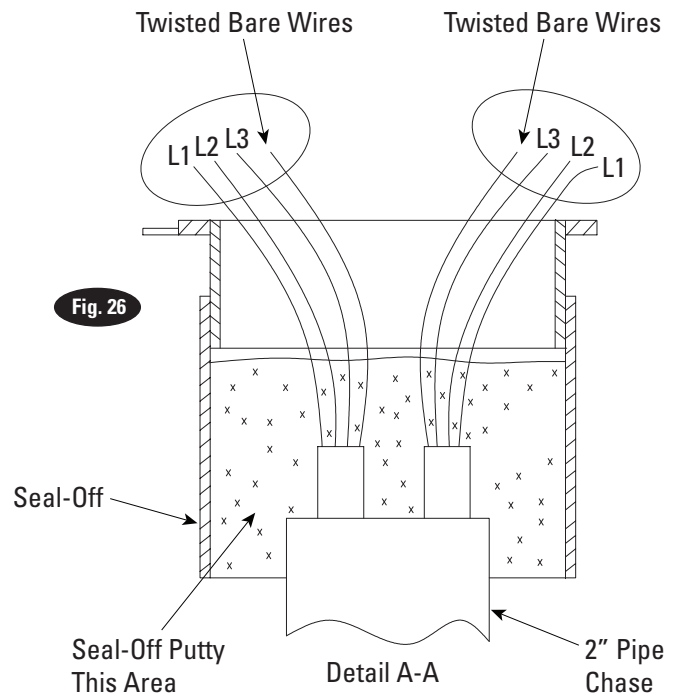
Fig. 24



CABINET CONDUIT PROFILE

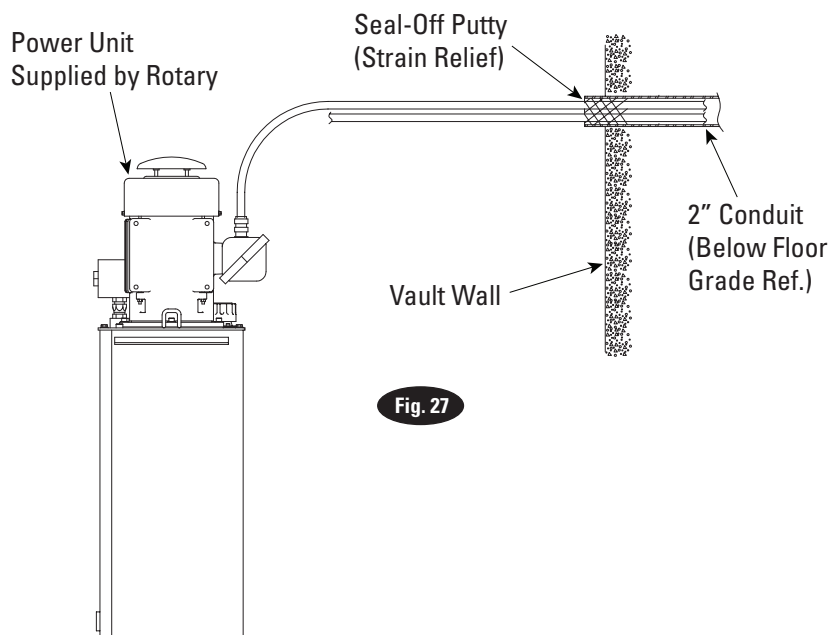


1.) Route bundled wires from seal off keeping them at least 18" above grade into enclosure where wires are connected to the terminal strip. Twist the additional bare copper wires together and attach to the grounding strip.



General Notes:

- 1.) This method may be used to seal-off the pipe chase coming into the console. This method is not to be construed as the only method of doing so. Always check local codes and regulations before proceeding.
- 2.) Ground strip in panel to be connected to facility ground or high integrity ground installed at panel.
- 3.) Repeat wiring method for all electrical raceways terminated in enclosure.



Step 21: Option "A" Connecting Position Sensors Cables Into Console:

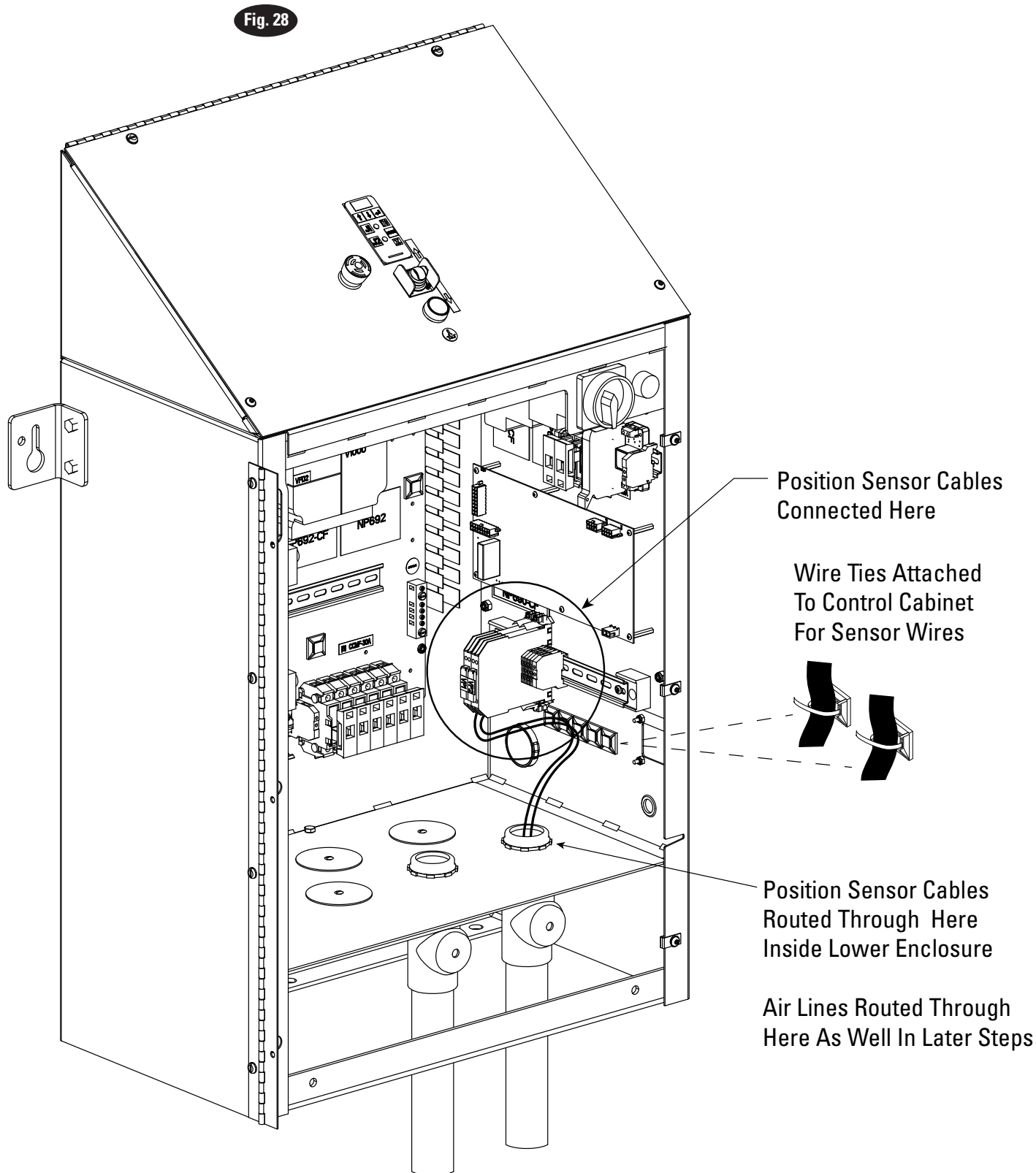
A.) Remove the screw from the enclosure door, Fig. 28.

B.) Route the rise position sensor cable through the conduit and plug them into their appropriate sensor, Fig. 28. Sensors only plug in one way and use dielectric grease on both connectors.

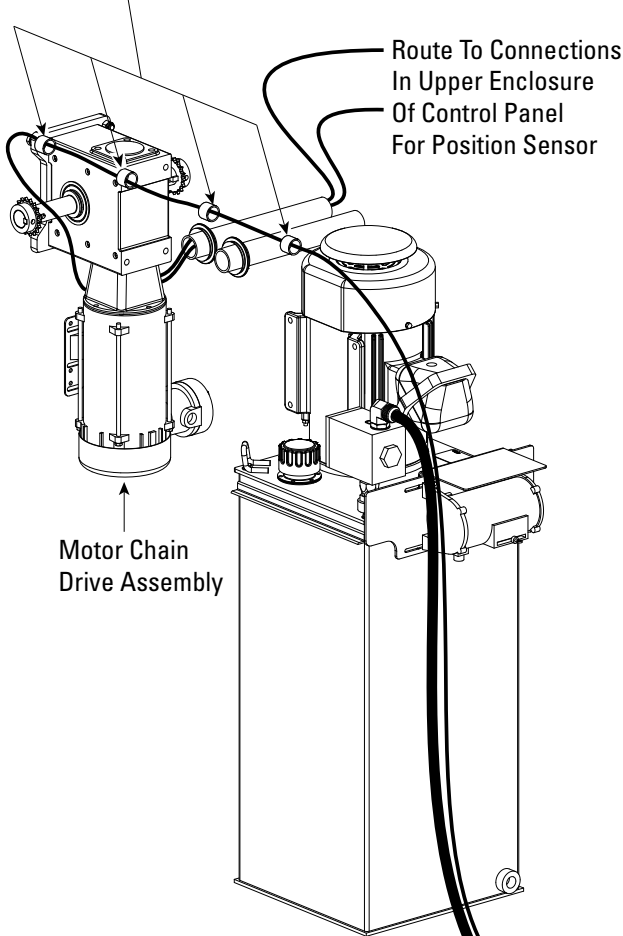
C.) Position sensor cables are all intrinsically safe wires and must be separated from non-intrinsically safe wires by at least 2". Larger schematic provided in back of instructions.

D.) Review Fig. 39.

Determine lift configuration to control panel. Notice (1) is always to the left when viewing lift from behind control panel.



Route Position Sensor Cable From Control Panel, Through Conduit And Around Drive Chain Assembly And Through Guides In Housing

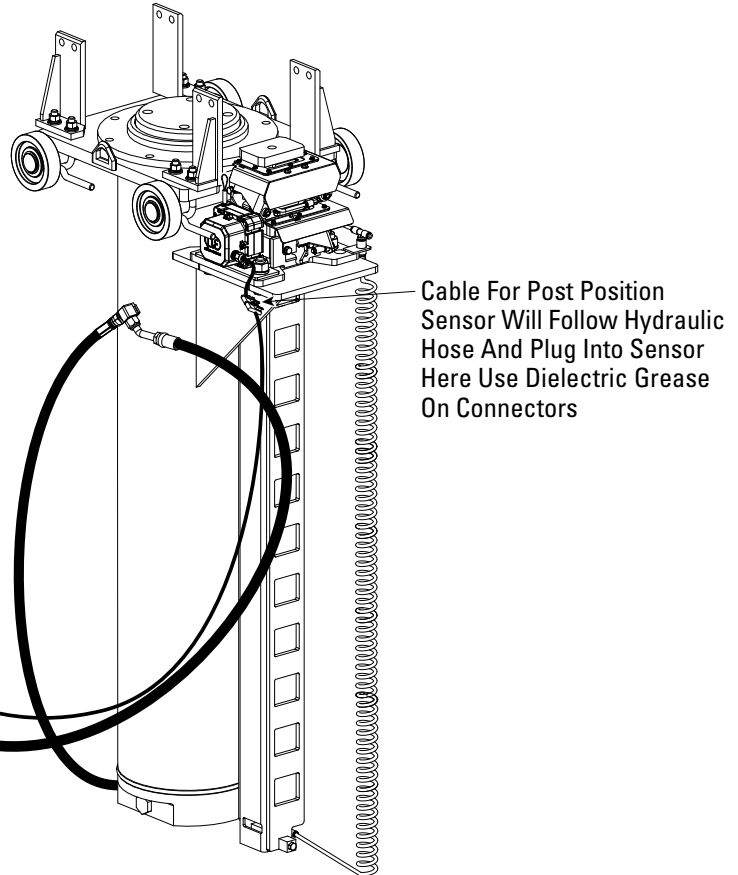


Step 23: Installing Position Sensor Cable Into Moveable Post Housing:

A.) Remove the screw from the enclosure door, Fig. 30.

Typical Routing Moveable Posts

Fig. 30



Step 22: Installing Position Sensor Cable Into Stationary Post Housing:

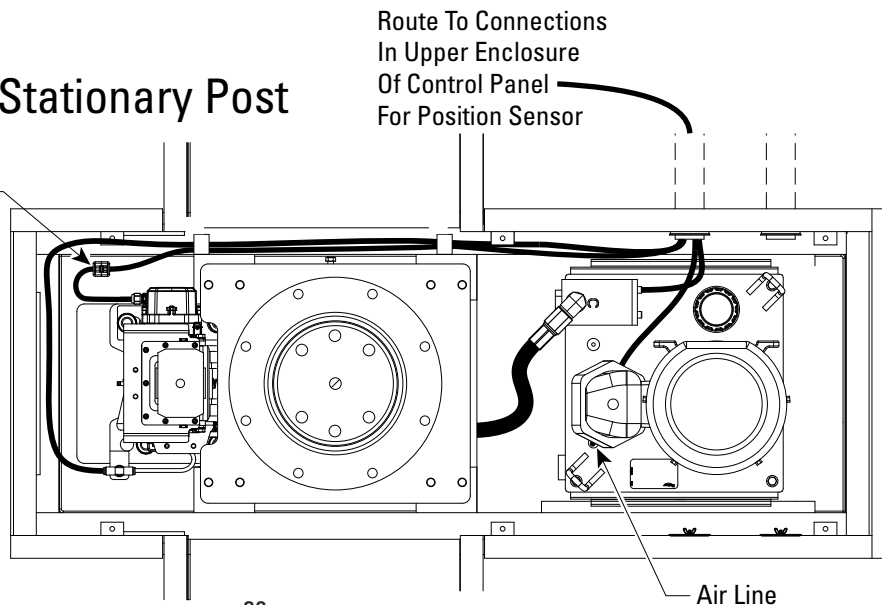
A.) Route position sensor cable through conduit and plug into appropriate barrier sensor. The other end will connect at sensor located on rear of housing, Fig. 29.

Note: Schematics provided in the back.

Stationary Post

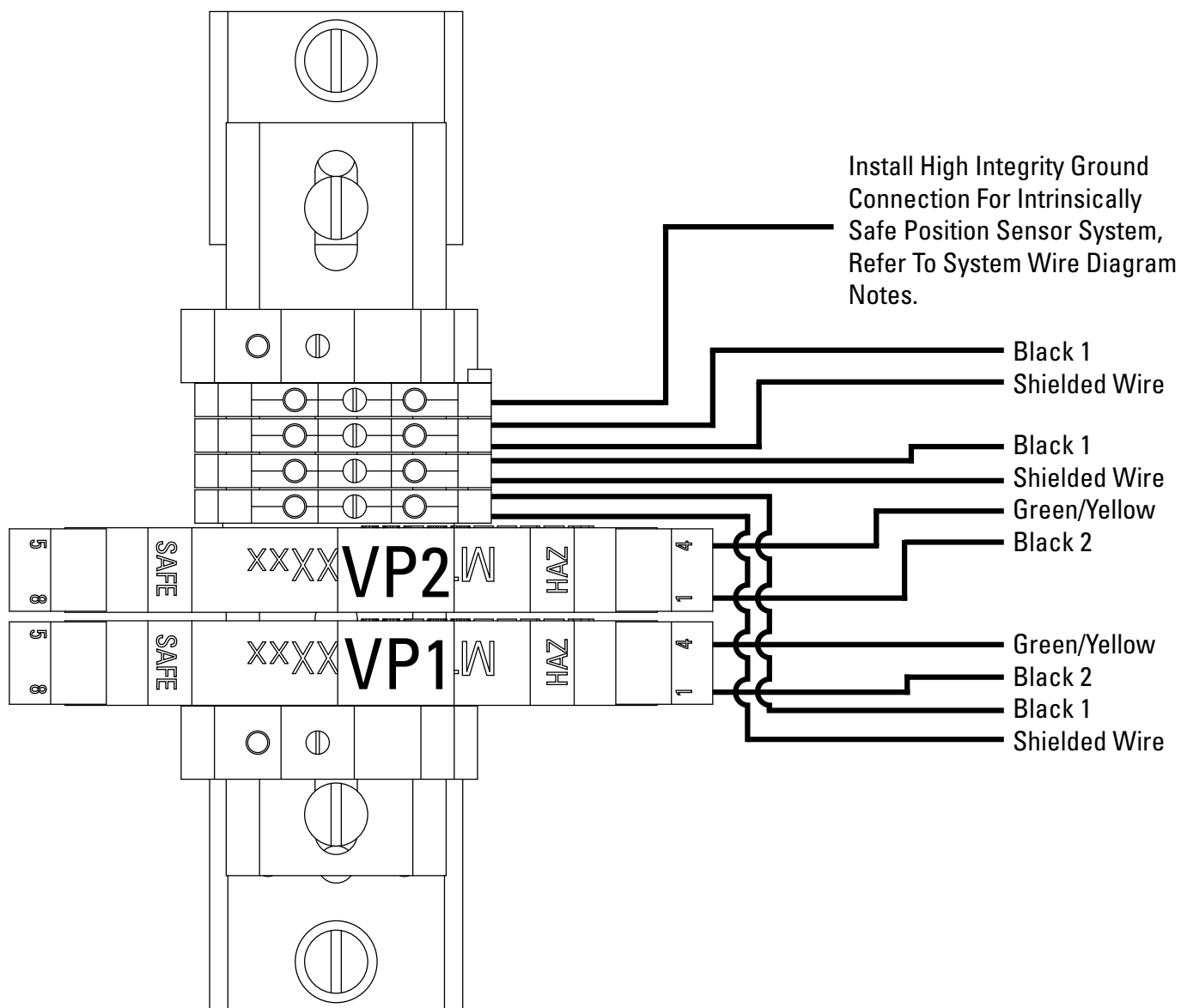
Fig. 29

Position Sensor Cable Follows Air Lines From Control Panel And Plugs Into Position Sensor Use Dielectric Grease On Connectors



2-Post Connections

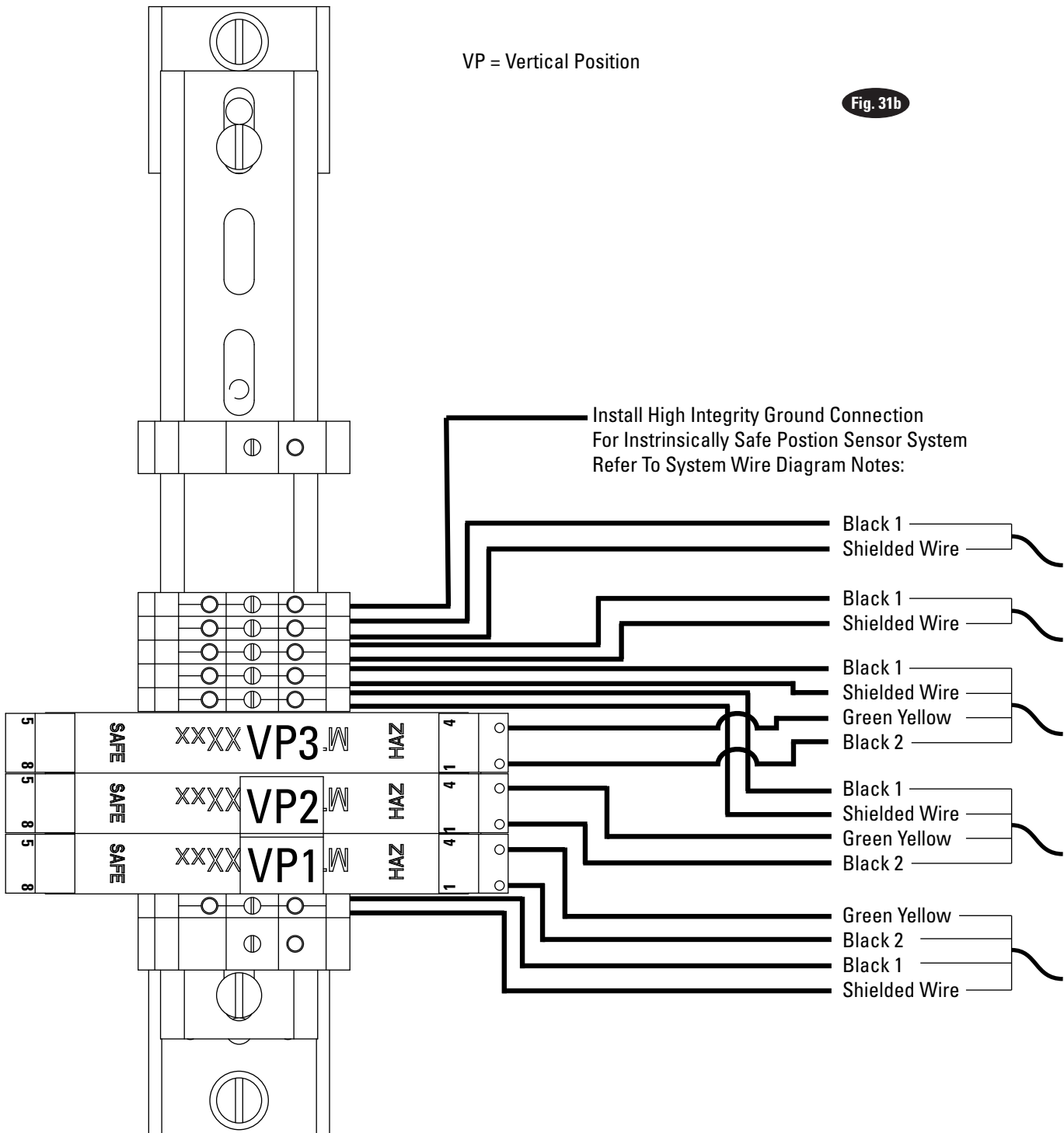
Fig. 31a



3-Post Connections

VP = Vertical Position

Fig. 31b



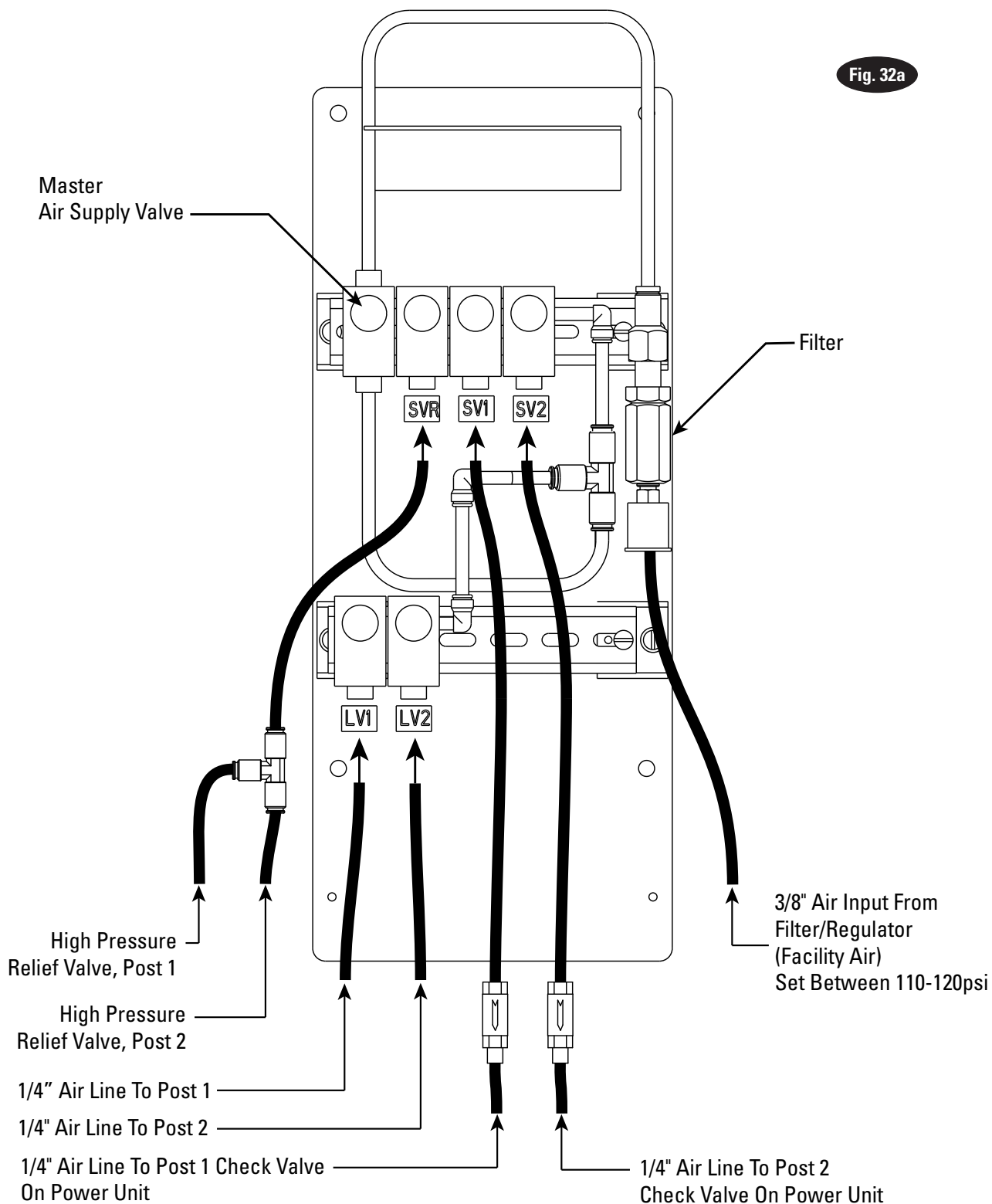
Step 24: Making Air Line Connections Into Housings:

B.) Route 1/4" air lines through service conduits and make connections per Figs. 32a thru 34.

C.) Review Fig. 39a and Fig. 39b. Determine lift configuration to control panel. Notice (1) is always to the left when viewing lift from behind control panel.

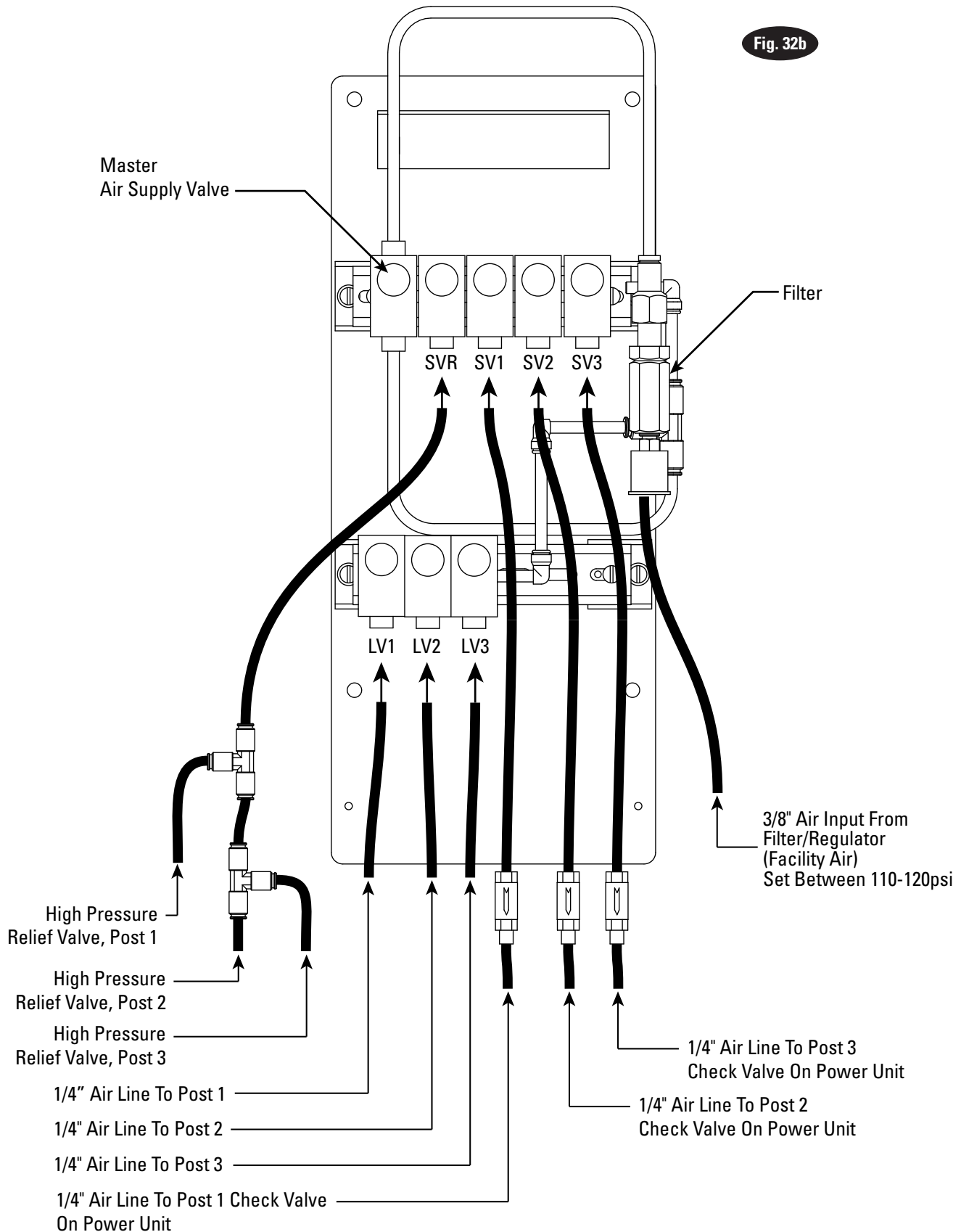
IMPORTANT A filter/regulator, included in parts box, must be installed on air supply at the control panel. Failure to do so will void the warranty.

2-Post Connections



3-Post Connections

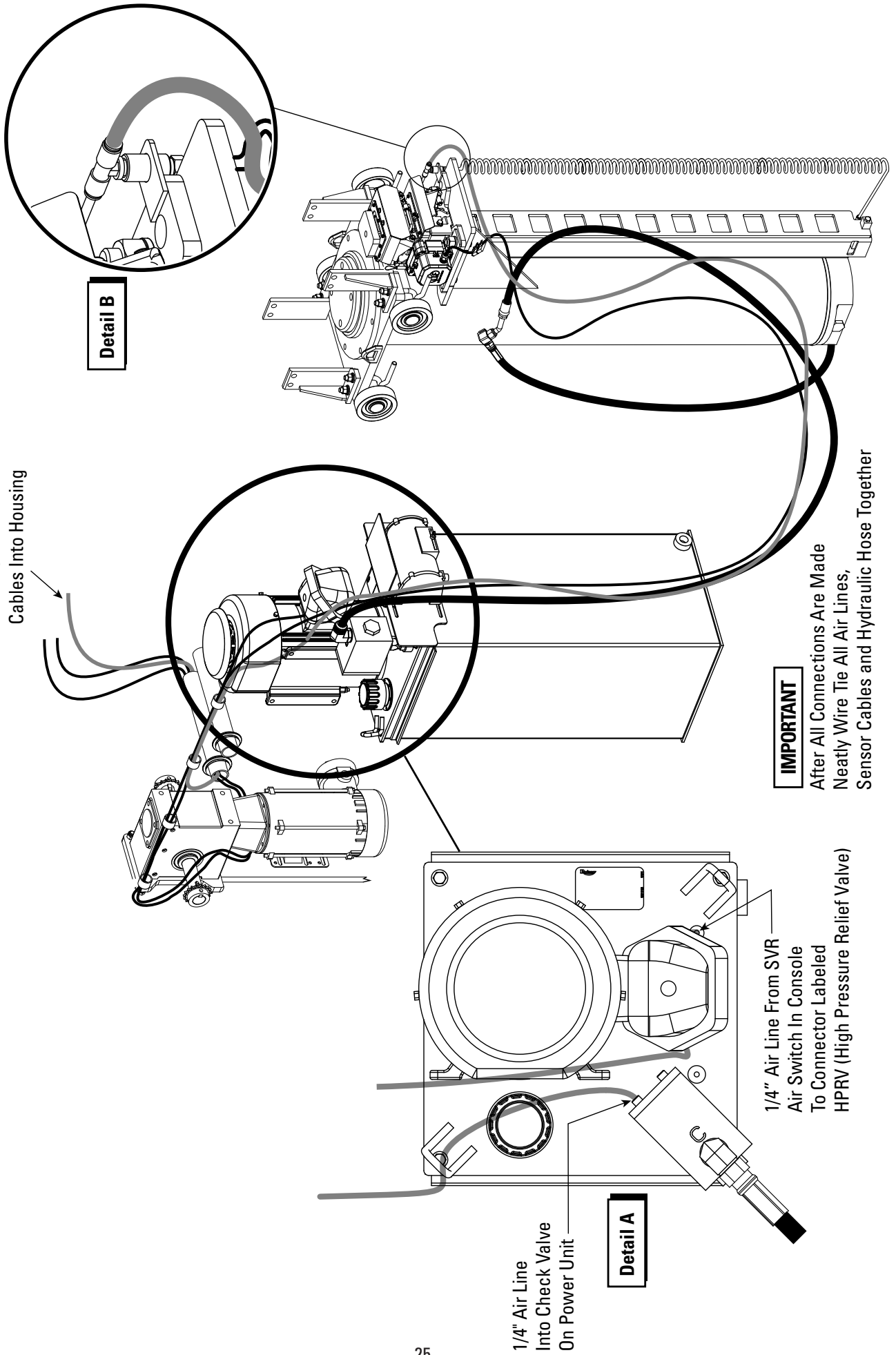
Fig. 32b



Moveable Post Air Line Detail

Fig. 33

Follow Sensor
Cables Into Housing



1/4" Air Line To
Check Valve
On Power Unit

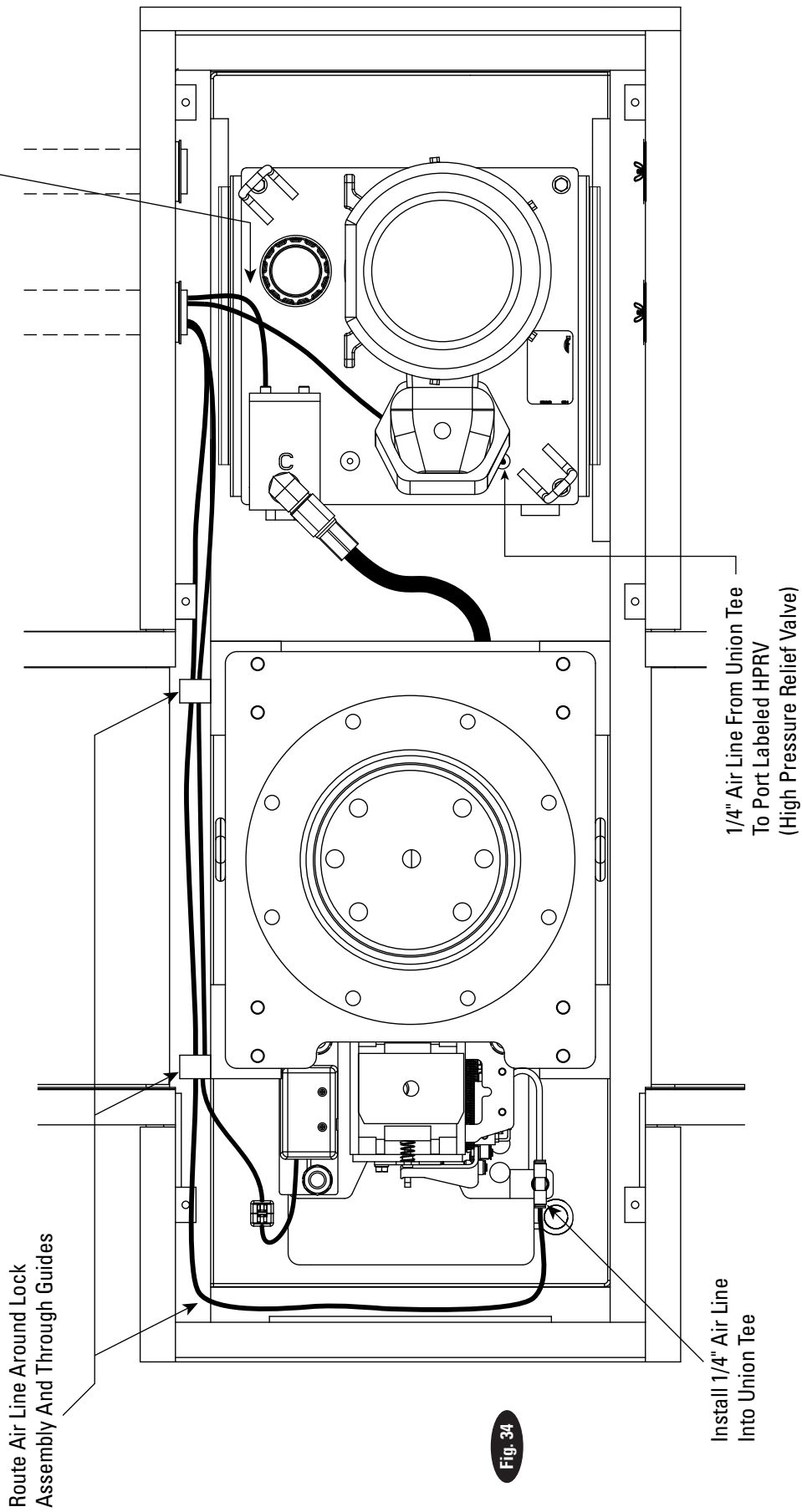
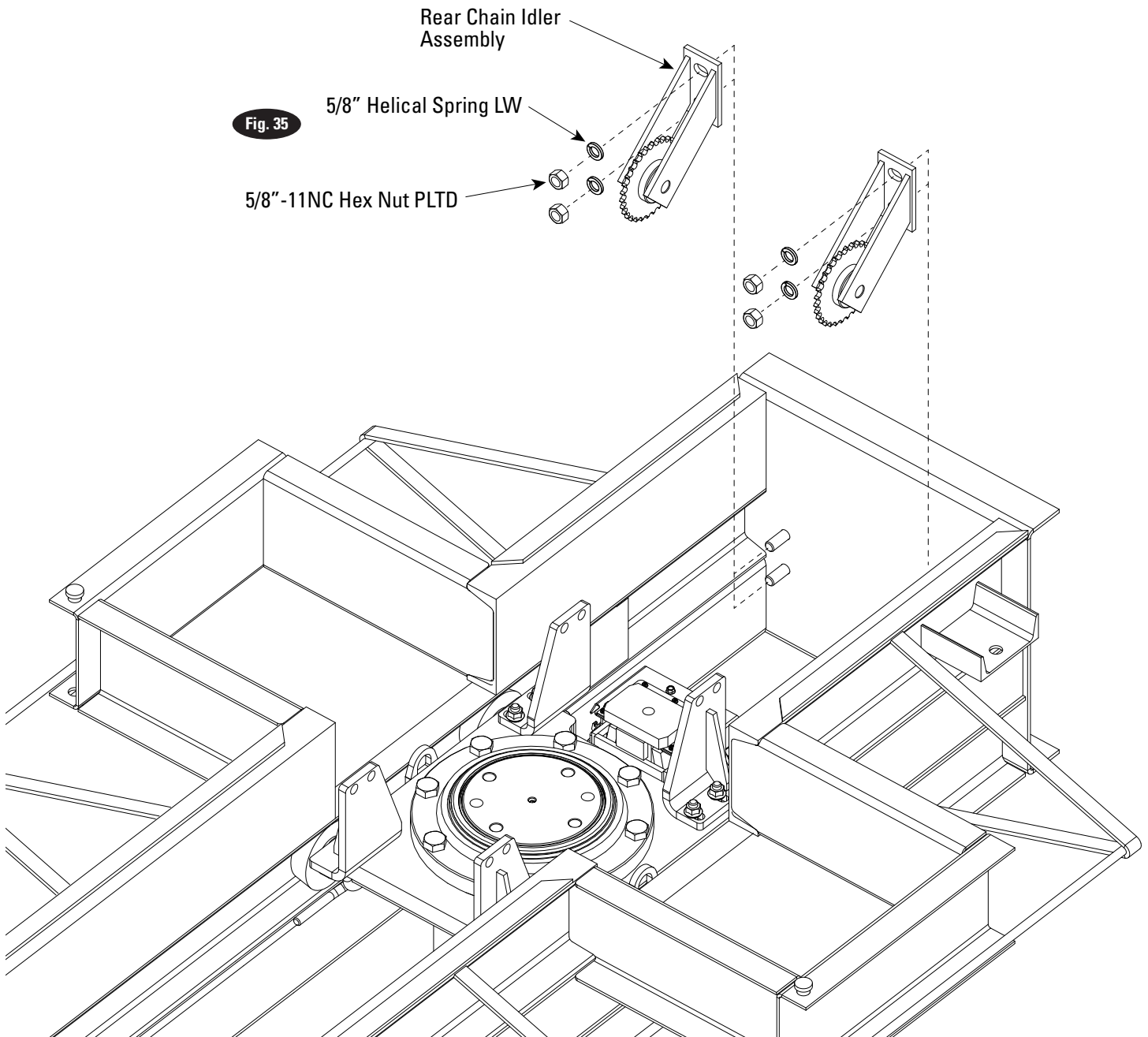


Fig. 34

Step 25: Installing Chain Idler Assemblies:

A.) Install chain idler assembly with (4) 5/8"-11NC hex nuts and (4) 5/8" LW, Fig. 35.

NOTE: Notice in Fig. 35 that the sprockets will be facing downward into housing.



Step 26: Installing Drive Chains Into Front Frame:

A.) Install one end of drive chain onto axle/chain adjustment bracket with 1/2"-13NC hex nylon insert lock nut, Fig. 36.

B.) Route drive chain around sprocket on motor chain drive assembly and sprocket on chain idler assembly and attach other end to of drive chain to axle/chain adjustment bracket with 1/2"-13NC hex nylon insert lock nut, Fig. 36.

C.) Repeat steps A and B for other drive chain.

IMPORTANT

After drive chains have been installed slack in chains should not exceed 1", see Fig. 36.

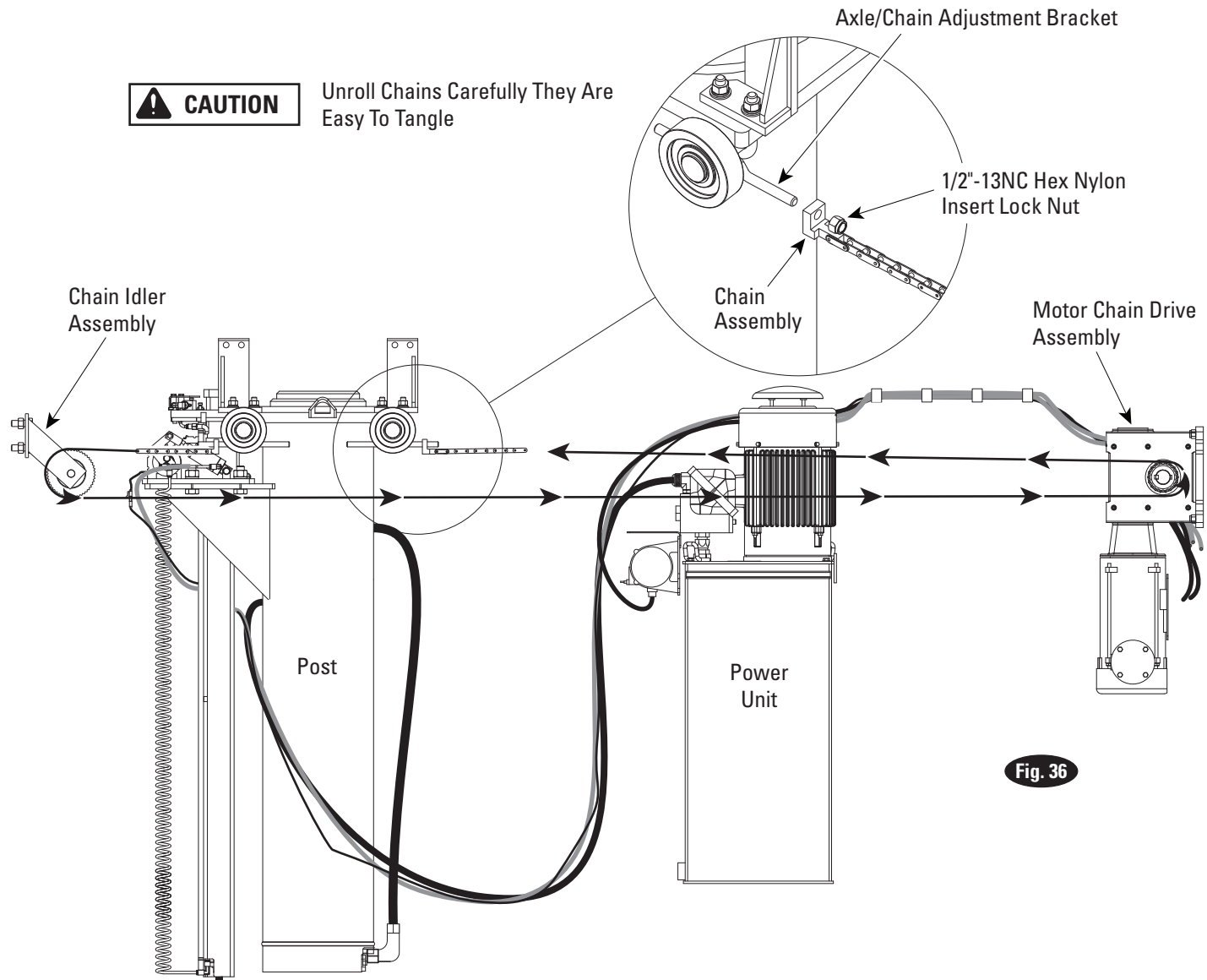
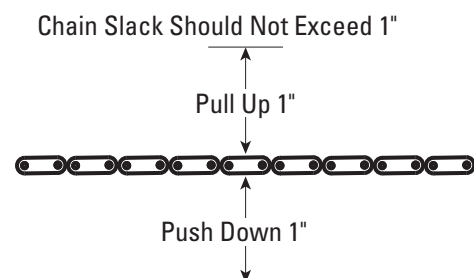


Fig. 36

IMPORTANT

After Both Chains Have Been Installed Slack In The Chain Should Not Exceed 1". Make Adjustments Accordingly.



Step 27: Making Electrical Connections:

A.) Before making wire connections, review Fig. 39. This will help determine lift configuration to control panel. Notice that (M1) motor at lift is always to the left when viewing lift from behind control panel. Make wiring connection in panel that matches lift configuration selected.

B.) Wire in (facility) electrical service into the control panel at disconnect, at panel and wire in the electrical service from the front and rear housing into the control panel, Fig. 37. All wiring must comply with NEC and all local electrical codes. Full schematics provided in the back.

Step 28: Detailing Air Lines And Cables:

A.) Inspect and wire tie all air lines and cables pulling any excess to the control panel. Make sure air lines have enough radius in their bends to prevent kinking. Air line, position sensor cable, and hydraulic hose coming from the post in the front housing should be wire tied together. All air lines and sensor cable should be routed through guides as illustrated in previous steps.

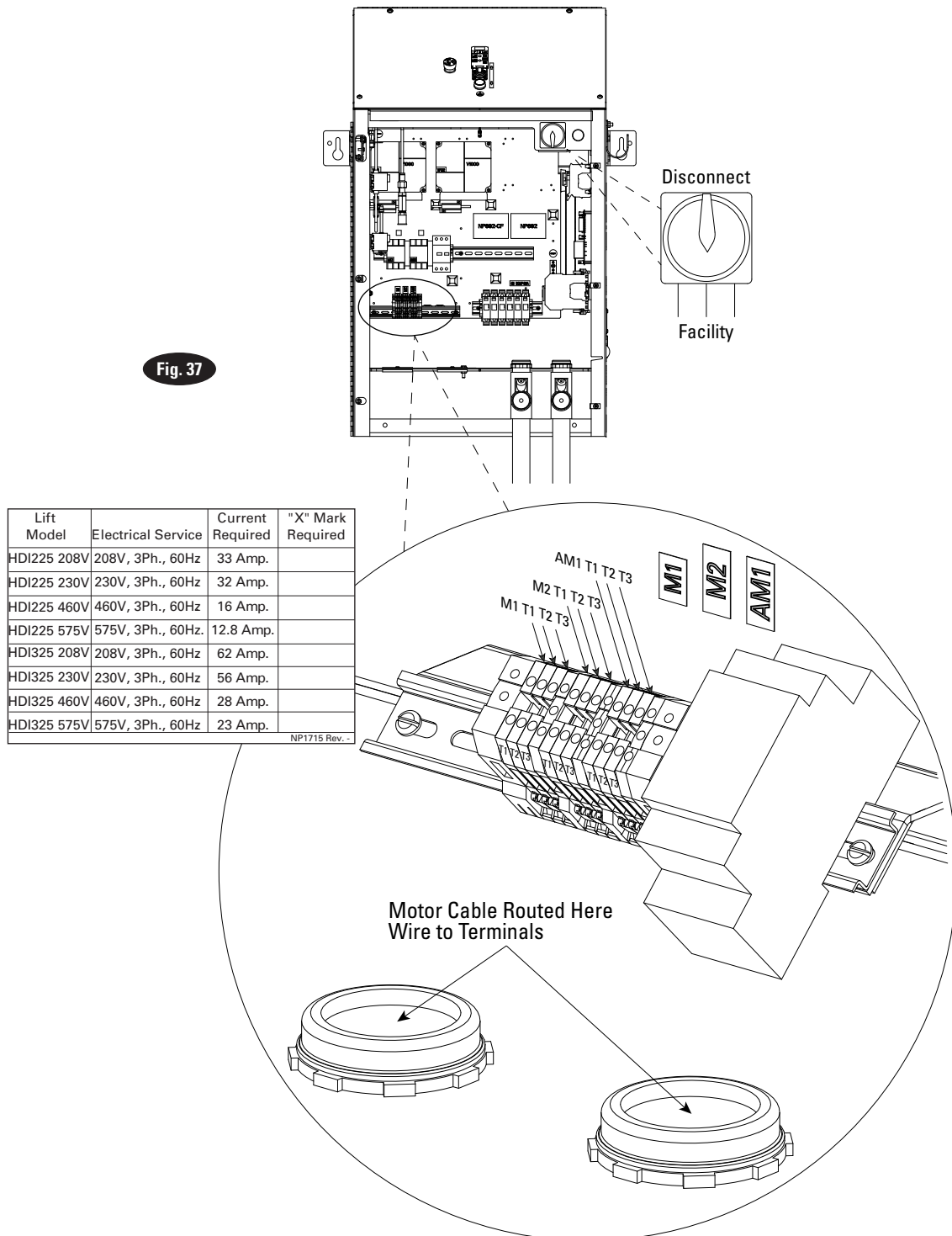
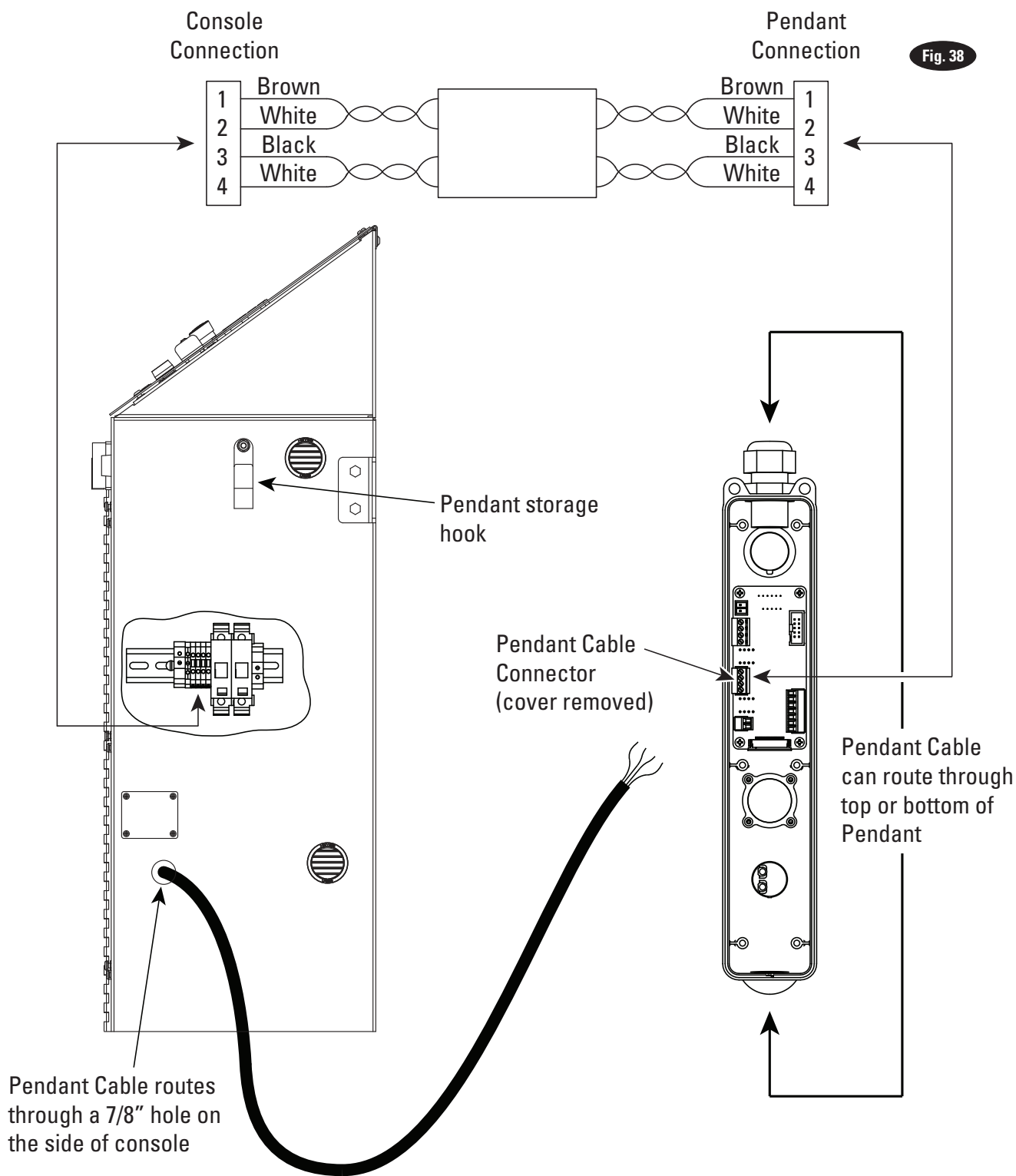


Fig. 38



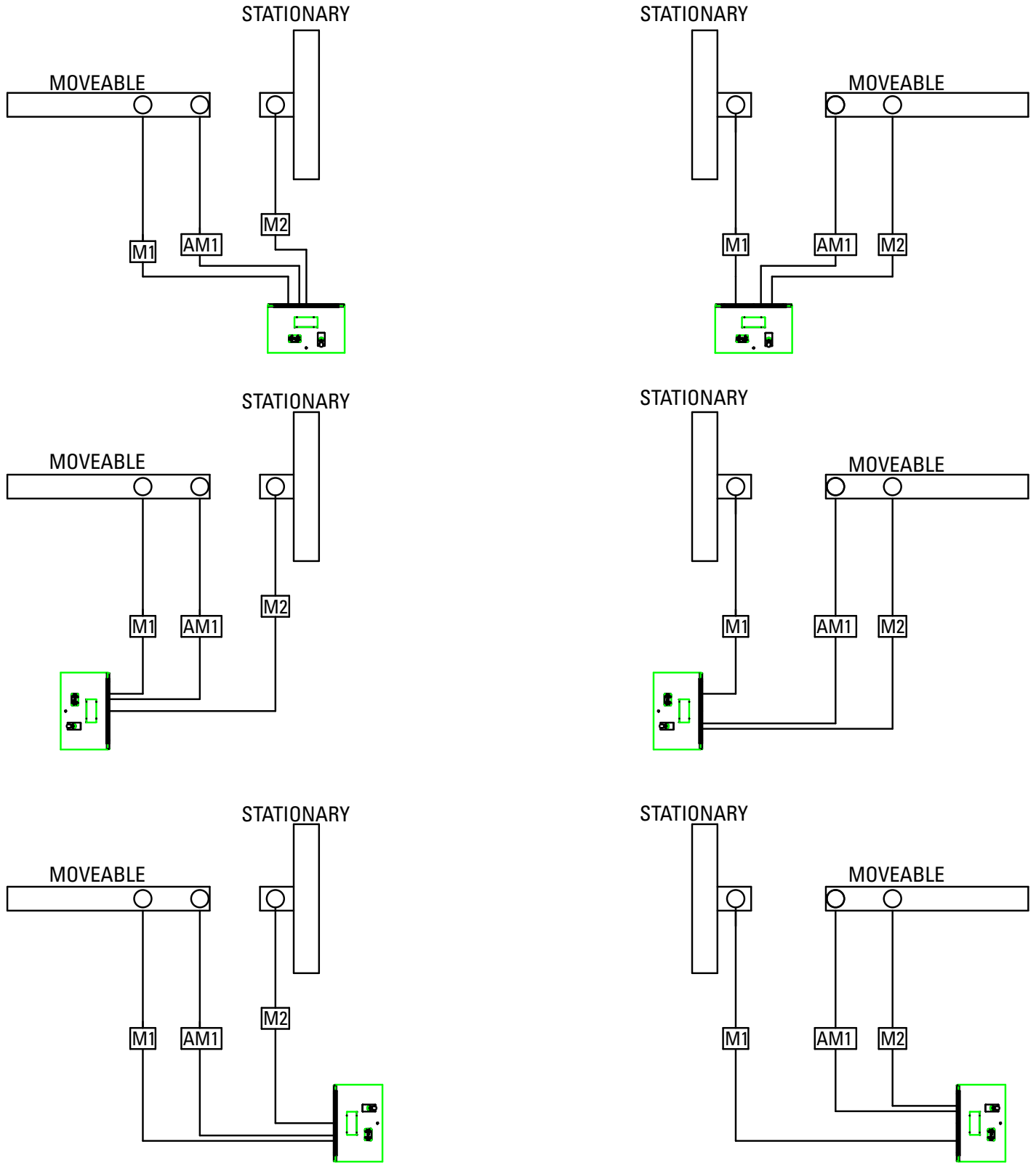
DO NOT USE PENDANT BELOW FLOOR LEVEL

Vehicle Service Group Pendant for hazardous locations FA9123 Class 1, Div. 2, Group D 24VDC, 0.1A For Indoor Use (5°-40° C) CAUTION De-energize and remove from hazardous location prior to opening.	Véhicule de groupe de service En disponibilité pour emplacements dangereux FA9123 Classe 1, Division 2, Groupe D 24VDC, 0.1A Pour l'Usage Intérieur ATTENTION! Mettre hors tension et sortir de l'emplacement dangereux avant l'ouverture.
--	--

NP1117 Rev. -

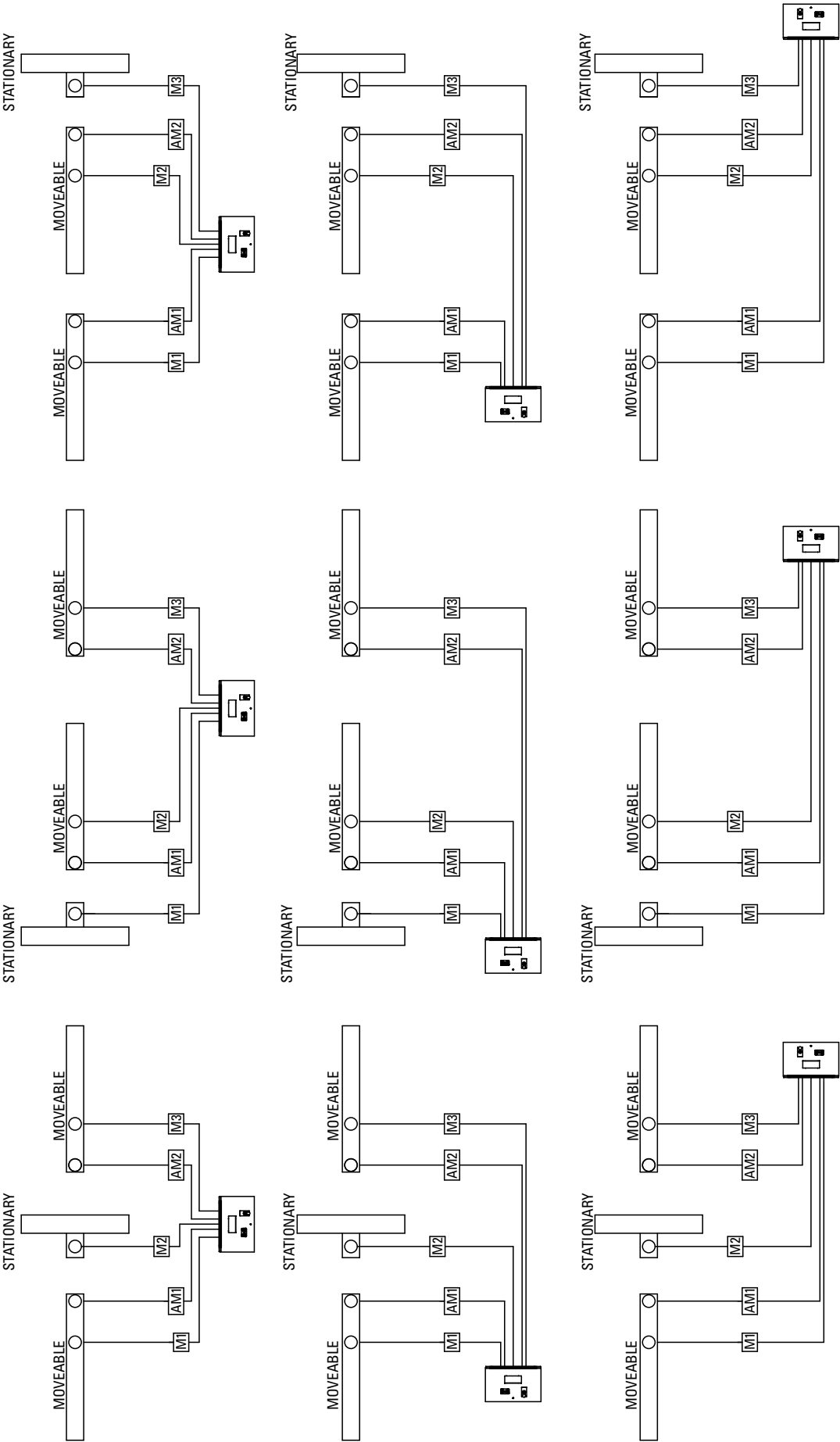
2-Post Connections

Fig. 39a



3-Post Connections

Fig. 39b



Step 29: Installing Saddles To Posts:

A.) Attach saddles to front and rear posts, Fig. 40.

B.) Attach post position sensors to 5/16" stud on saddles, Fig. 40.

Fig. 40

IMPORTANT Do Not Operate Lift Without Superstructure

IMPORTANT

* Saddle Bolts Must Be Re-Torqued As Part Of Regular Maintenance. Refer To Maintenance Schedule In Operation Manual. Always Use Specified Torque Settings.

IMPORTANT

Never Let String Snap Back To Post Position Sensors

Attach String From Post Position Sensors To Tab As Shown

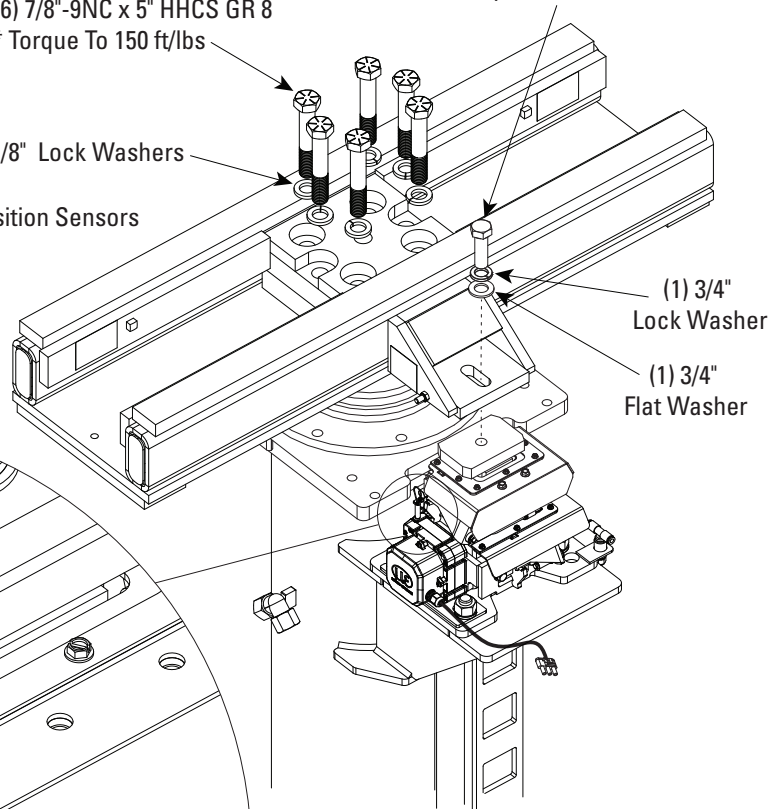
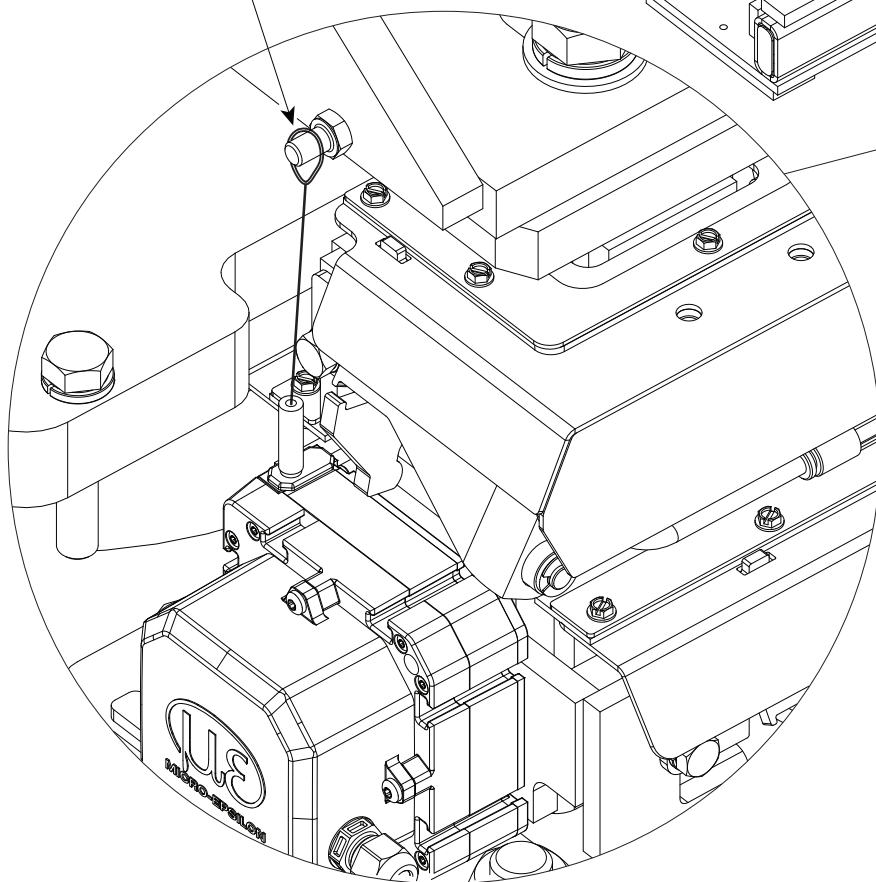
Install (6) 7/8"-9NC x 5" HHCS GR 8
* Torque To 150 ft/lbs

(6) 7/8" Lock Washers

Install (1) 3/4"-10NC x 2-1/4" HHCS GR 8
Torque To 100 ft/lbs

(1) 3/4" Lock Washer

(1) 3/4" Flat Washer



Step 30: Bleeding Posts (One Post At A Time):

- A.) Bring post to full rise. (Let set at full rise for several minutes).
- B.) Turn bleeder screw on top of post until fluid flows out of post, Fig. 30.
- C.) Close bleeder screw and lower post.
- D.) Repeat process until all air is out of the hydraulic systems.

Step 31: Leveling The Posts And Locking Leg Assembly:

- A.) Bring posts to full rise and check with a machinist level, Fig. 30.
- B.) Plumb posts with shims under post housings.
- C.) Plumb locking leg assemblies shim if required, Fig. 30.

CAUTION

Be Aware That Hydraulic Fluid Could Spray From Bleeder Screw Use Eye Protection During The Bleeding Process

ATTENTION

NOTE: Bleeder Screws Are Brass. Excessive Torque Could Strip The Threads On The Screws.

IMPORTANT

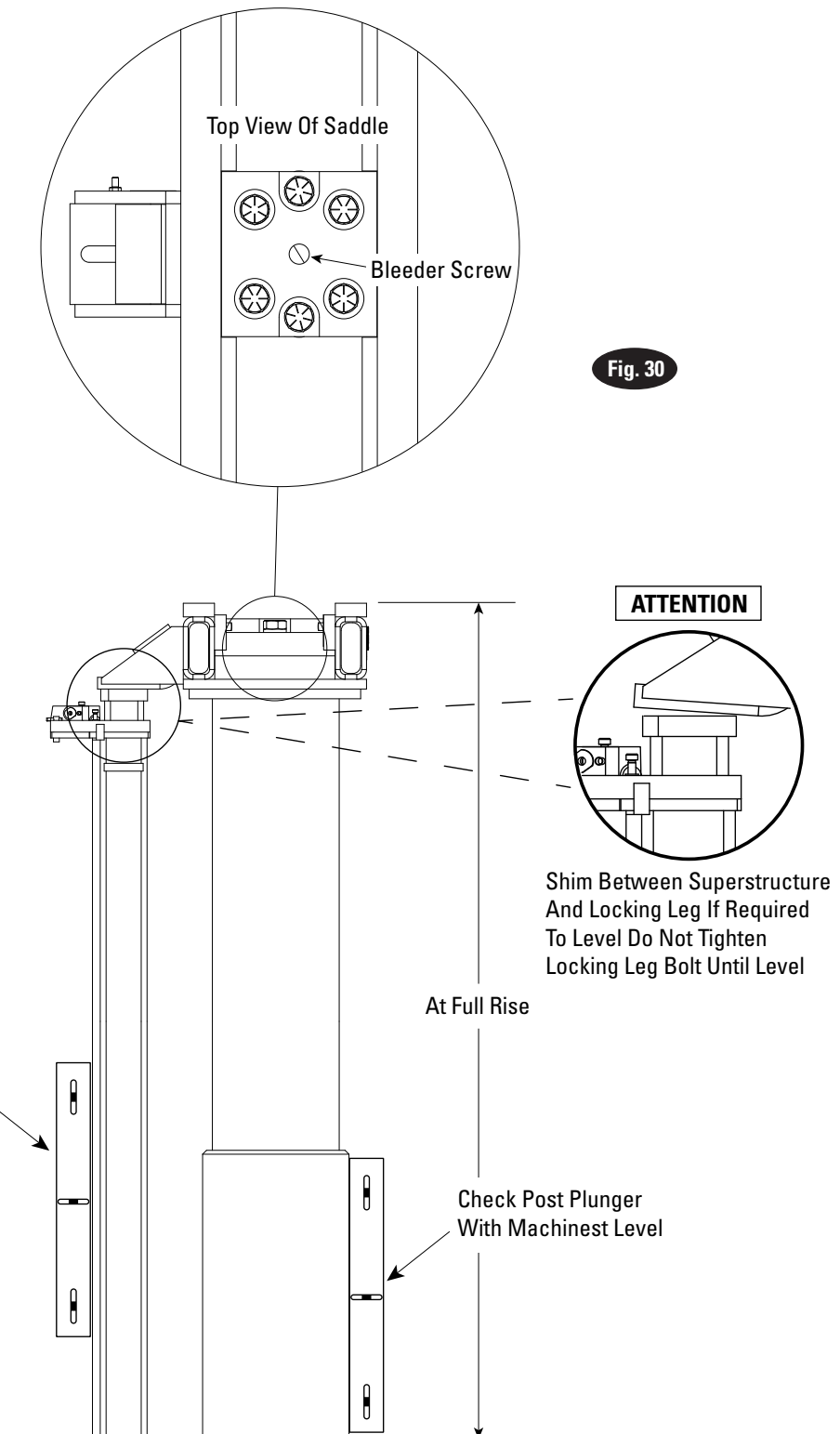
Bring Post To Full Rise Each Time Before Beeding.

IMPORTANT

Post Must Be Bled Until All Air Is Removed.

IMPORTANT

Locking Legs Should Be Level In Order For Locks To Engage And Disengage Properly



Step 32: Installing Cover Plates In Front Housing:

Note: Run Post the length of the track several time and make sure everything is working properly before installing floor plates, Fig. 31.

IMPORTANT

Run Post The Length Of The Track Several Times
And Make Sure Everything Is Working Properly
Before Installing Floor Plates

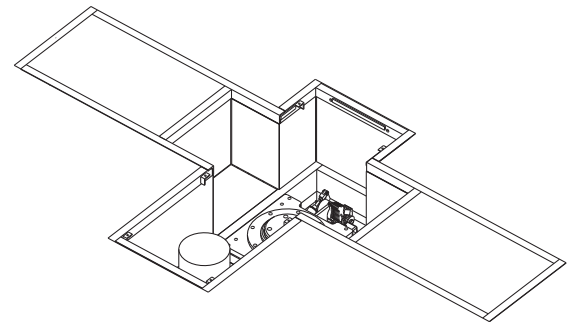
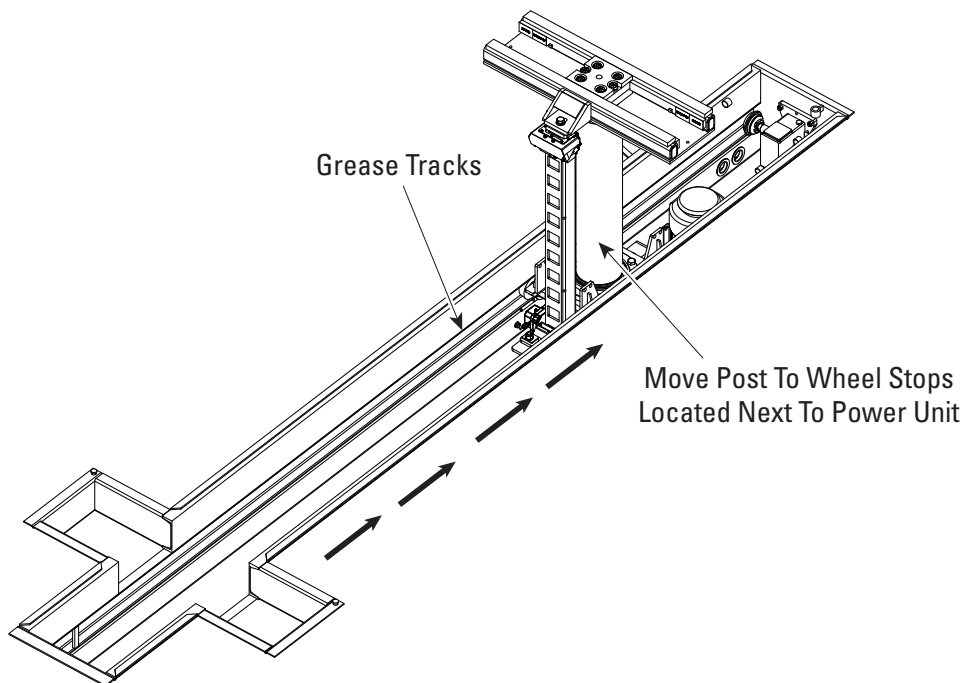


Fig. 31

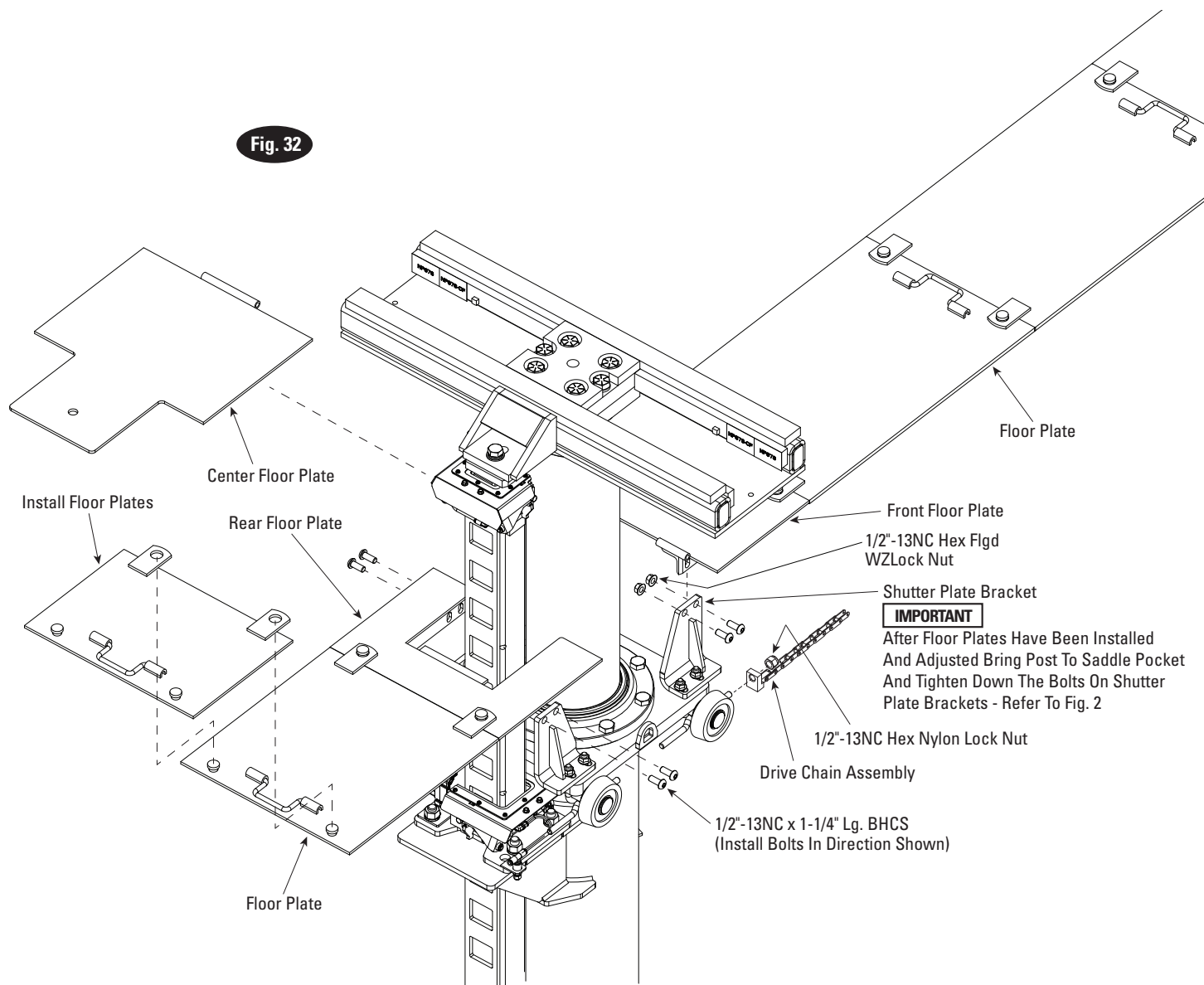


Step 33: Installing Floor Plates To Front Housings:

A.) Grease tracks before floor plate installation.

B.) Move post to wheelstops and install post floor plates as shown in Fig. 32 with 1/2"-13NC BHCS and 1/2" WZLock nuts.

C.) Install floor plates as shown on each side of saddle pocket, Fig. 32.



Step 34: Installing Cover Plates to Rear Housing:

A.) Install front filler plate with (4) 3/8"-16NC x 3/4" flanged c'sink SHCS, Fig. 33.

B.) Install rear filler plate with (2) 3/8"-16NC x 3/4" BHCS, Fig. 33.

C.) Install left end plate, right end plate, and center cover plate with door retainers and 3/8"-16NC x 5/8" HHCS. Two retainers per plate, Fig. 33.

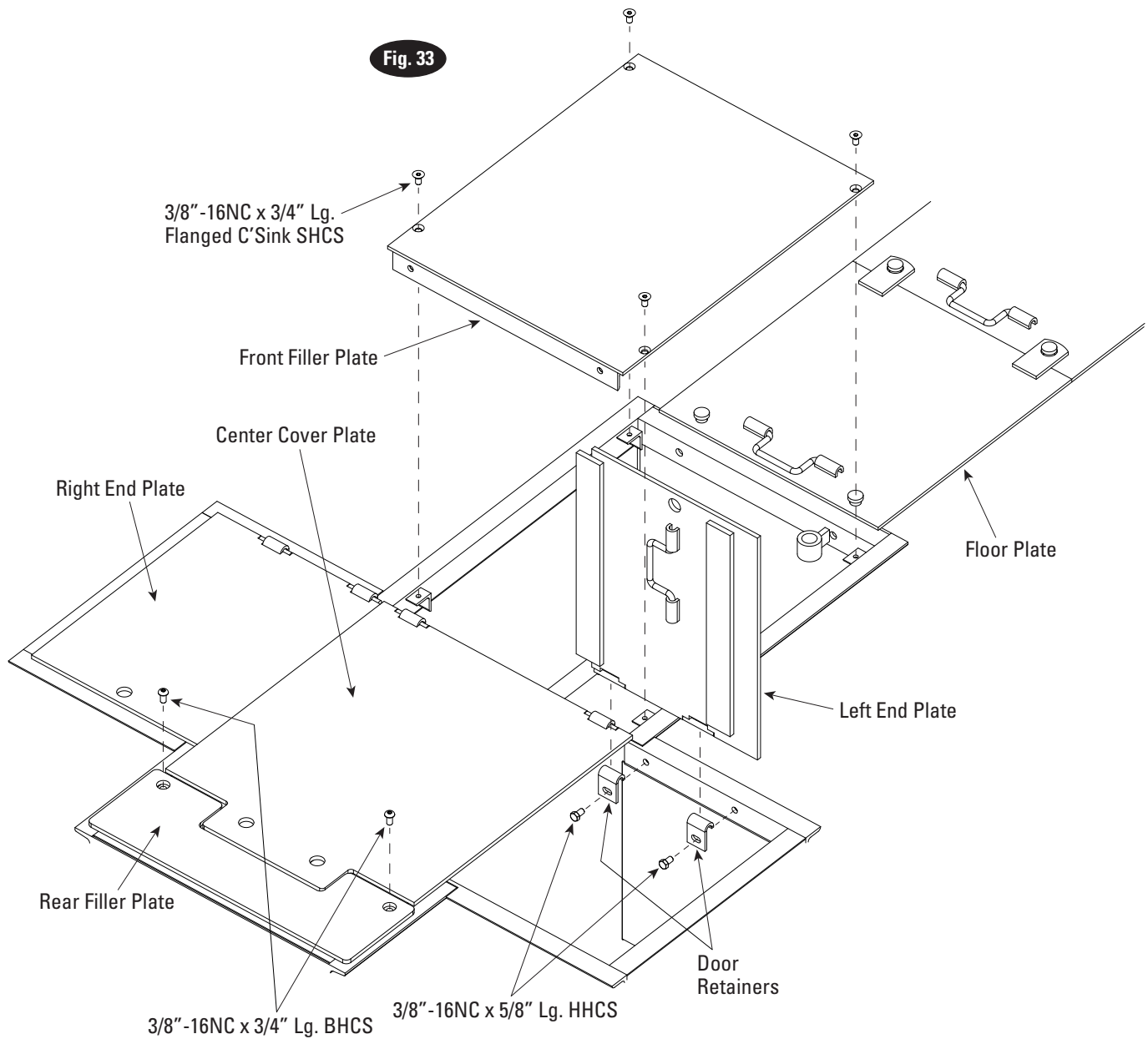


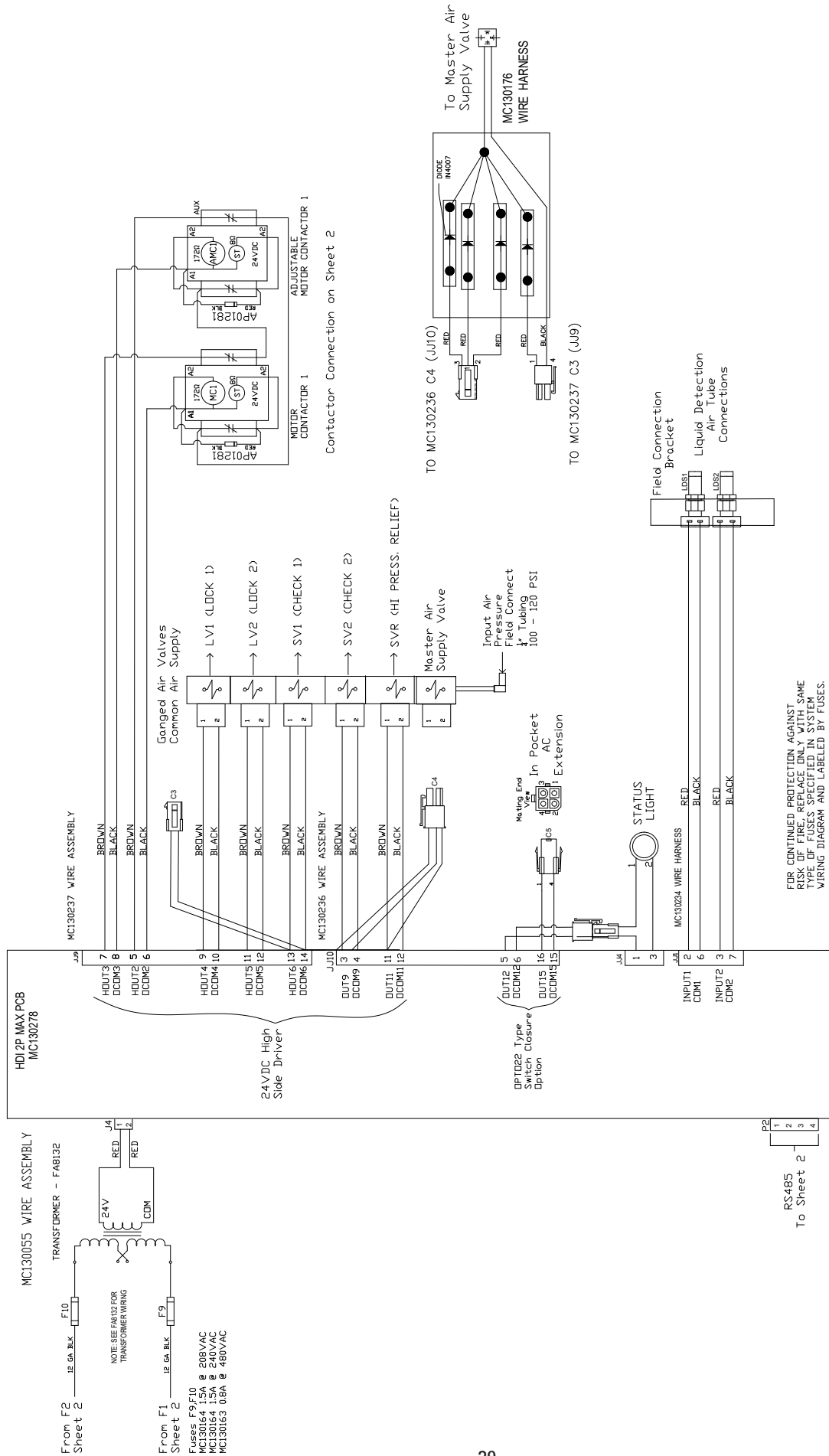
Fig. 34

Step 35: Lift Operation:

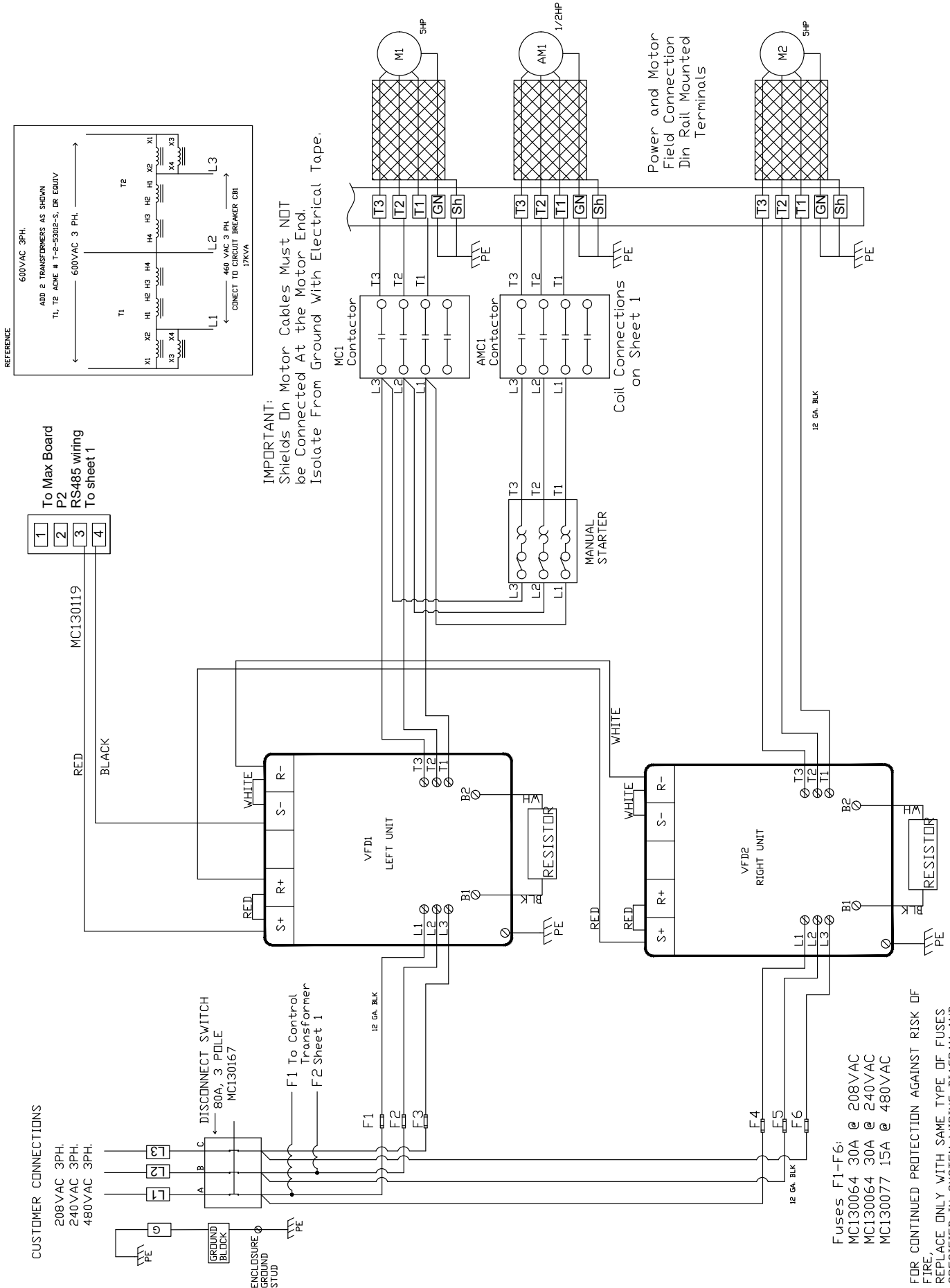
Review the operations and owner's manual to become familiar with the setup of the control panel and to set up the remaining features which should be done with a vehicle on the lift. User memory card should be installed after lift features have been set. Refer to operations manual for changing out memory cards. Make sure all personnel are thoroughly trained in the operation of the lift.

IMPORTANT Lift is not intended for outdoor use and has an operating ambient temperature range of 41° - 104° (5° - 40C).

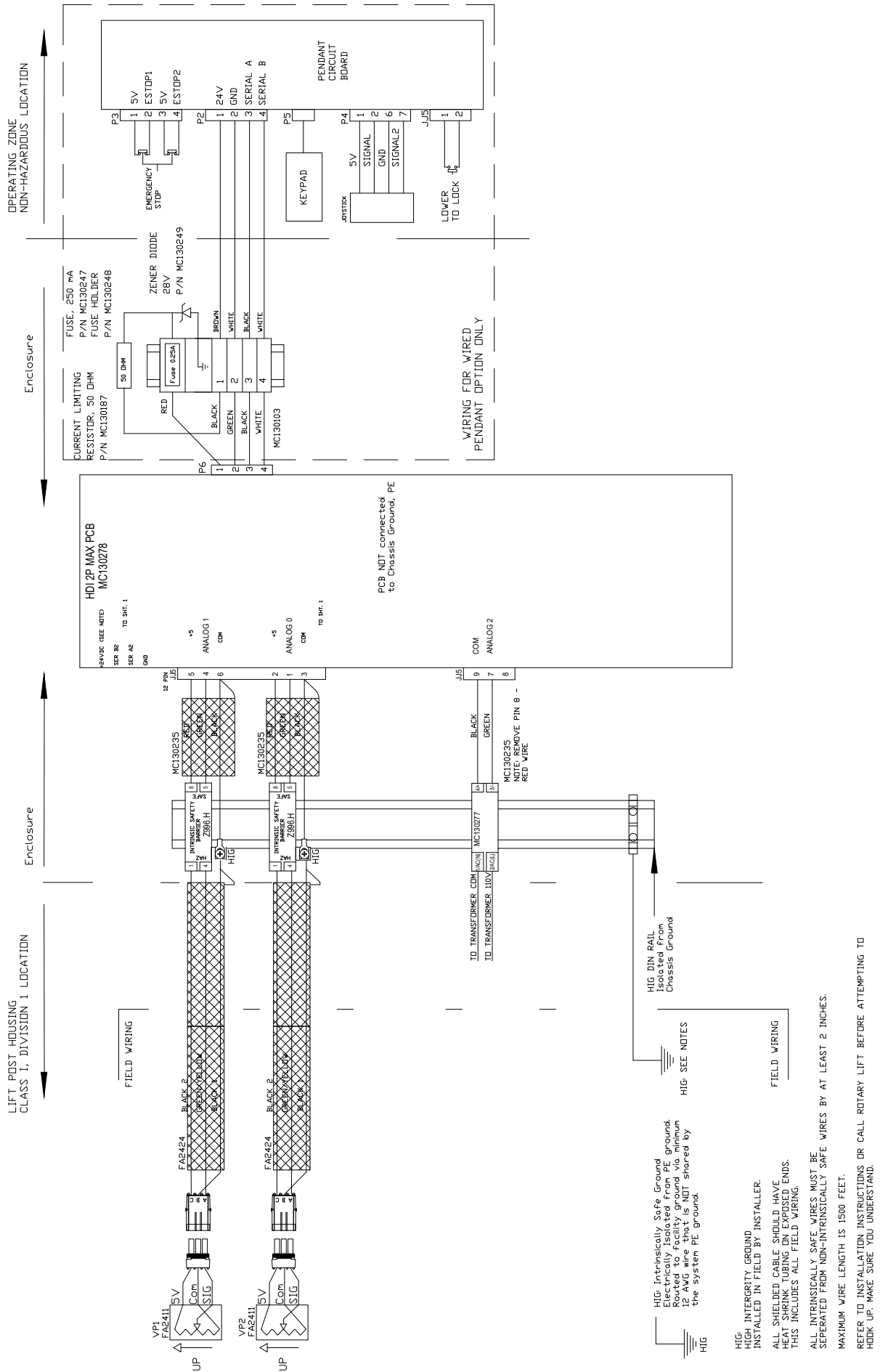
2-Post Wiring - 1



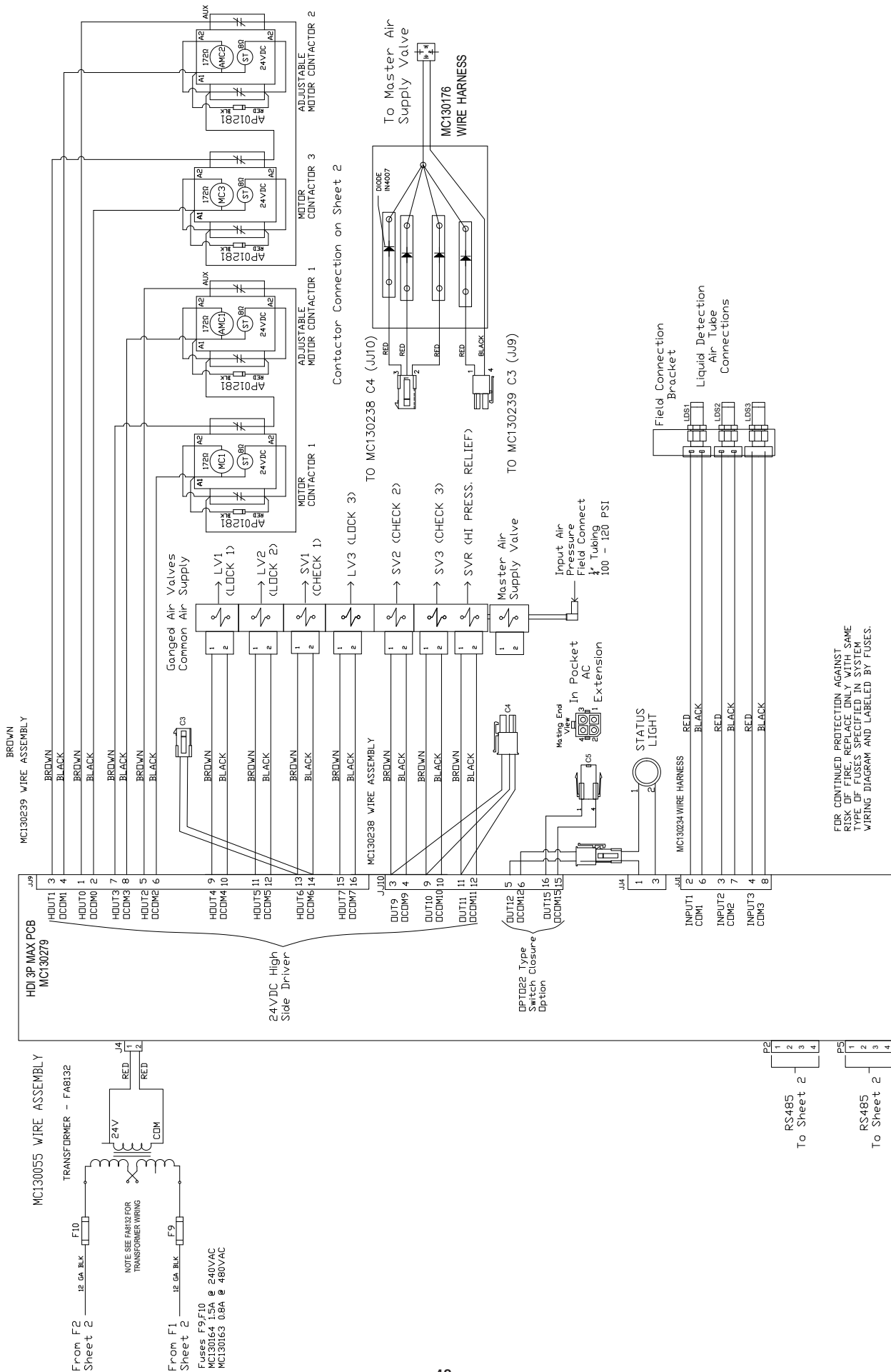
2-Post Wiring - 2



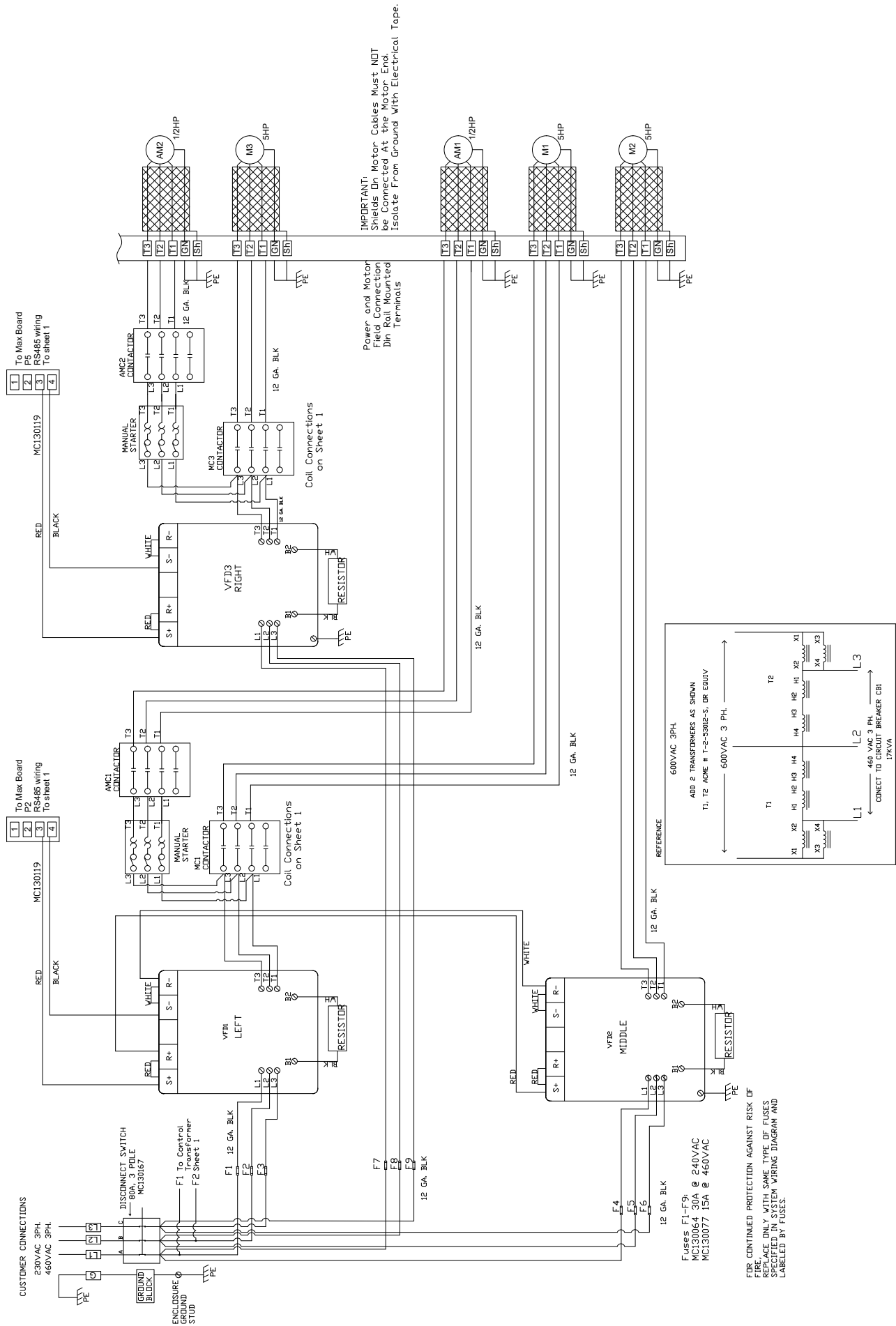
2-Post Wiring - 3



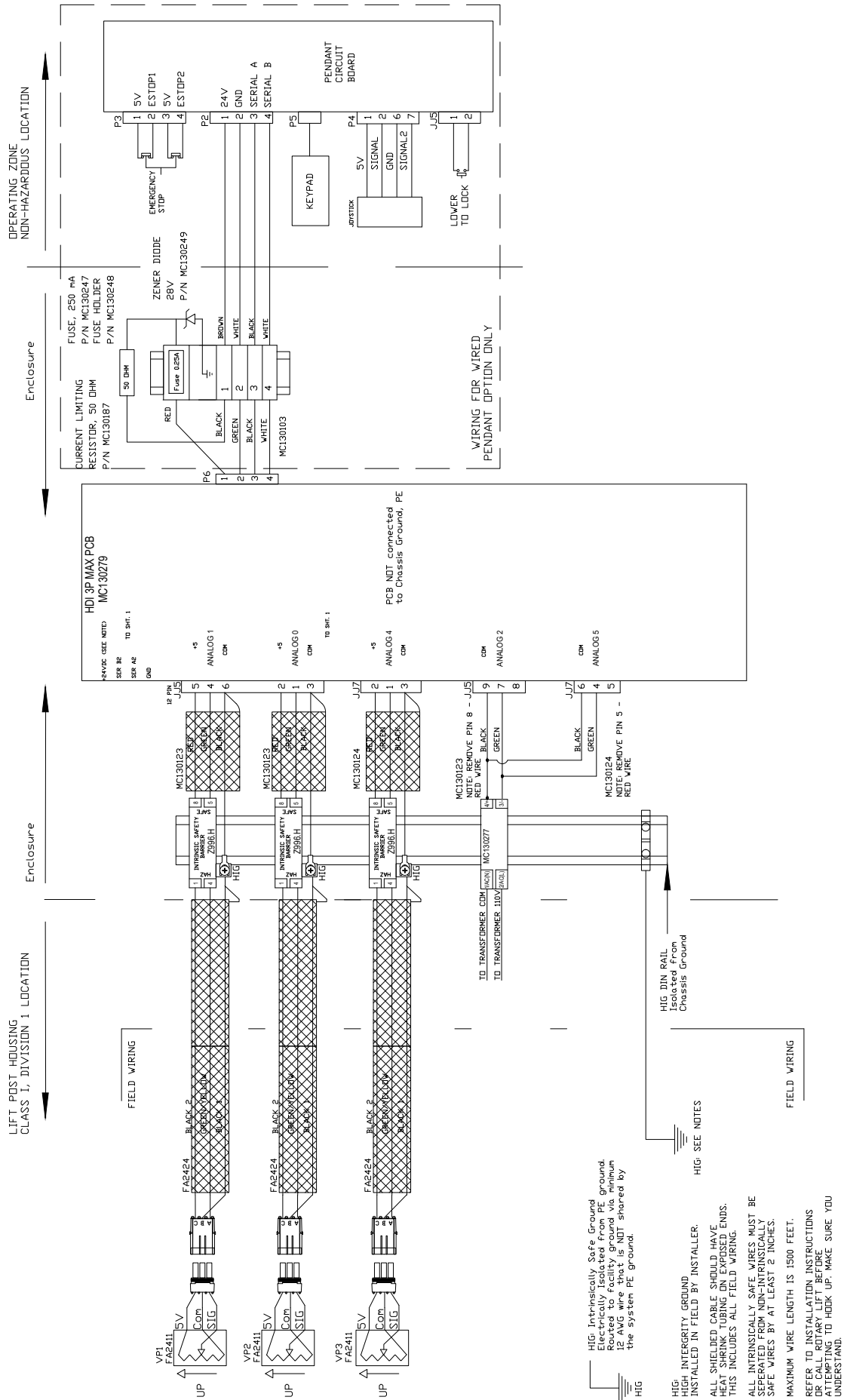
3-Post Wiring - 1



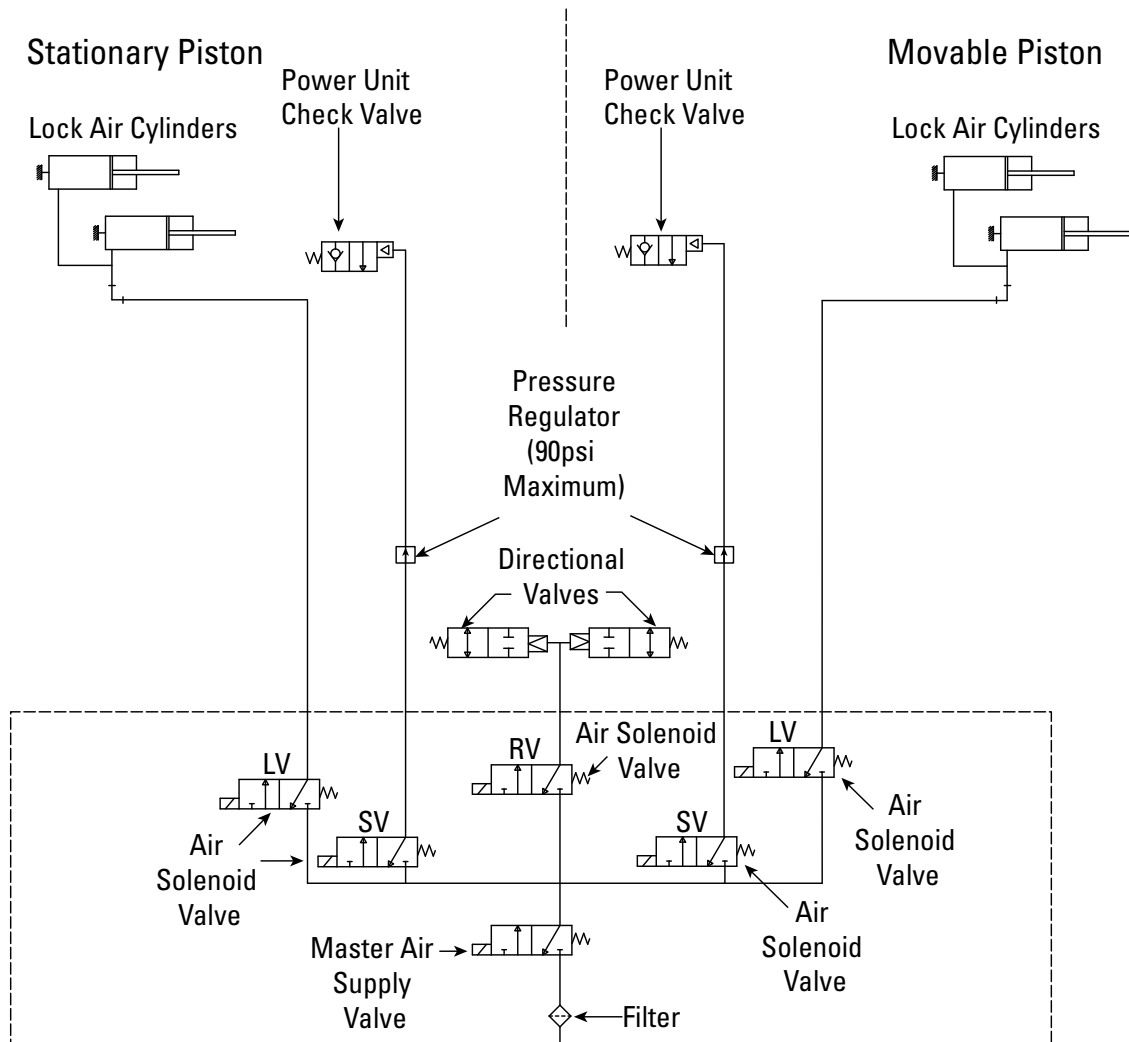
3-Post Wiring - 2

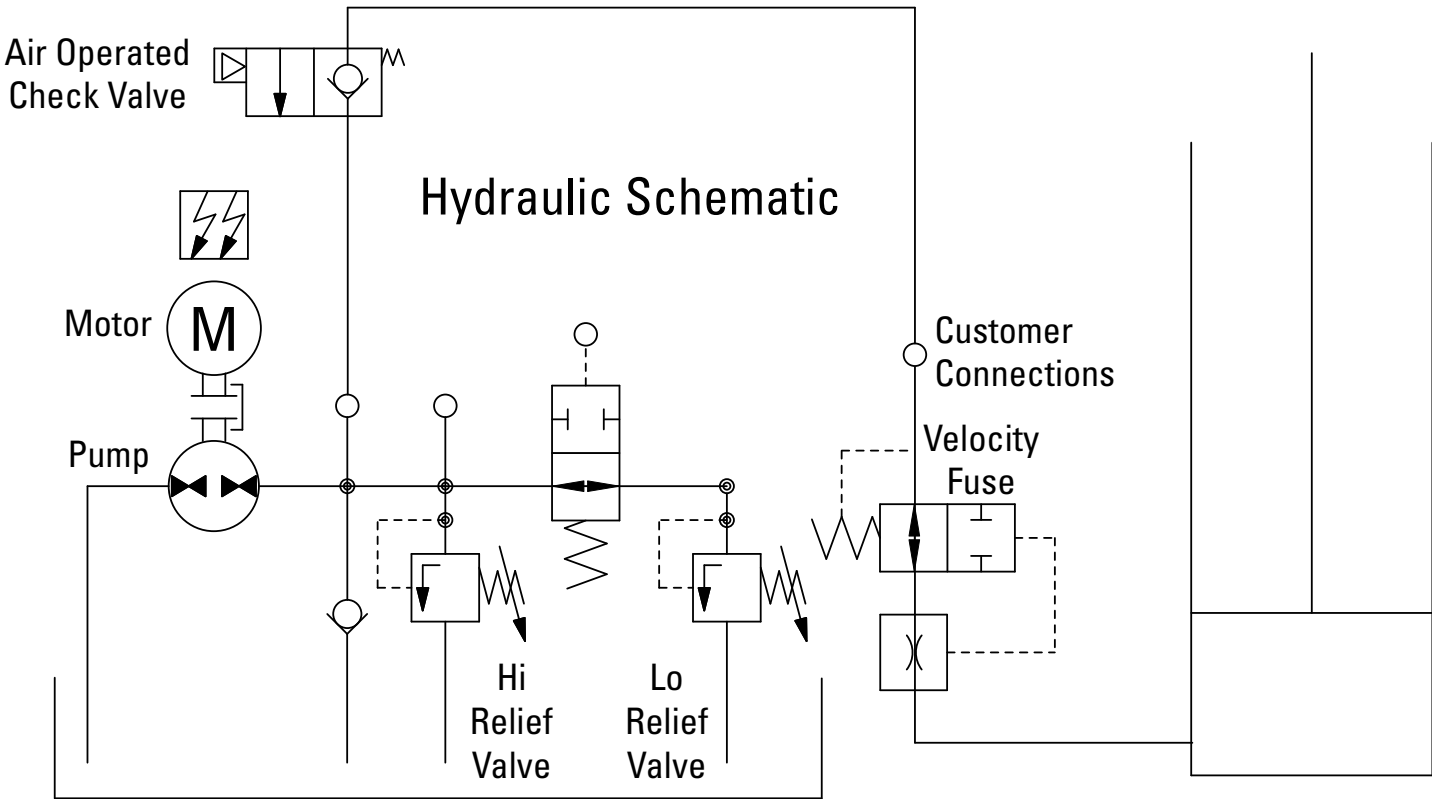


3-Post Wiring - 3



Pneumatic Schematic For Stationary And Movable Housing





Notes

Installer:
Please return this booklet to literature package,
and give to lift owner/operator.

Thank You

**Trained Operators and Regular Maintenance Ensures Satisfactory
Performance of Your Rotary Lift.**

**Contact Your Nearest Authorized Rotary Parts Distributor for Genuine Rotary Replacement Parts.
See Literature Package for Parts Breakdown.**



Rotary World Headquarters
3005 Highland Parkway, Suite 200
Downers Grove, Illinois 60515, USA
www.vsgdover.com
800.640.5438

North / South America Contact Information

Sales:

1.812.273.1622 / 800.445.5438
insidesales@vsgdover.com

Tech. Support:

800.445.5438
technicalsupport@rotarylif.com

Government Sales:

800.445.5438 X5655
rotarylif.com/Government-Purchasing-Assistance/

Additional information at rotarylif.com

Global Contact Information

Australasia: +60.3.5192.5910
Brazil: +55.11.4534.1995
Canada: 1.905.812.9920
European Headquarters/Germany: +49.771.9233.0
Latin America/Caribbean: 1.812.273.1622
Middle East/Northern Africa: +49.771.9233.0
Southern Africa: 1.812.273.1622
United Kingdom: +44.178.747.7711



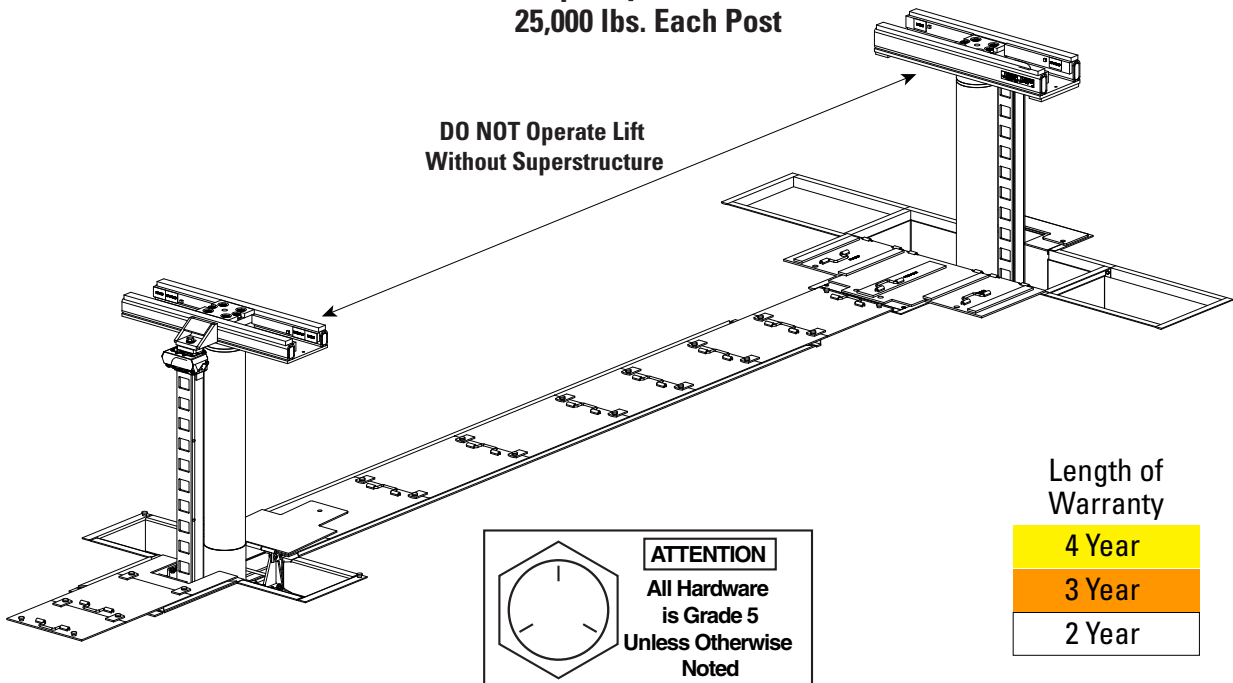


Models:
HDI225 (100 Series)
INGROUND LIFTS

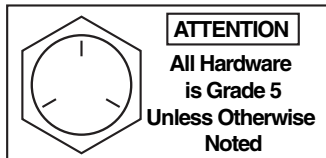
Capacity 50,000lbs.
25,000 lbs. Front Post
25,000 lbs. Rear Post

HDI325 (100 Series)
INGROUND LIFTS

Capacity 75,000lbs.
25,000 lbs. Each Post



DO NOT Operate Lift
Without Superstructure



ATTENTION
All Hardware
is Grade 5
Unless Otherwise
Noted

Length of
Warranty

4 Year

3 Year

2 Year

P
A
R
T
S

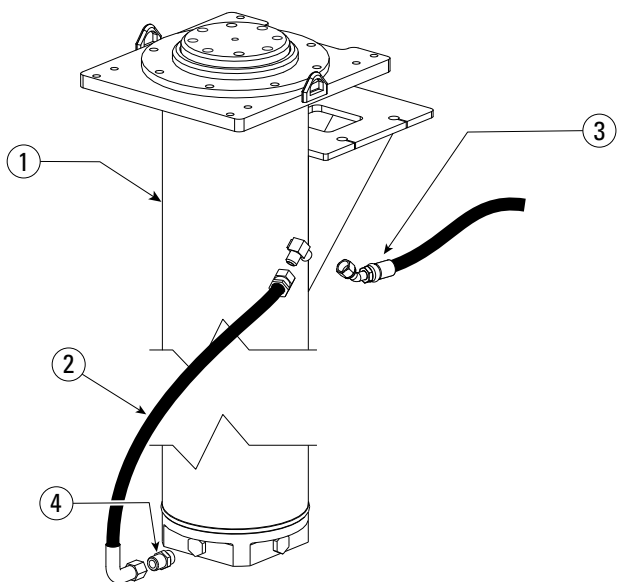
B
R
E
A
K
D
O
W
N

IMPORTANT: When ordering parts or requesting service always give exact model and jack serial number. Model number is shown on nameplate attached to cover plate. Jack serial number is located on the side of the plunger at point of attachment.

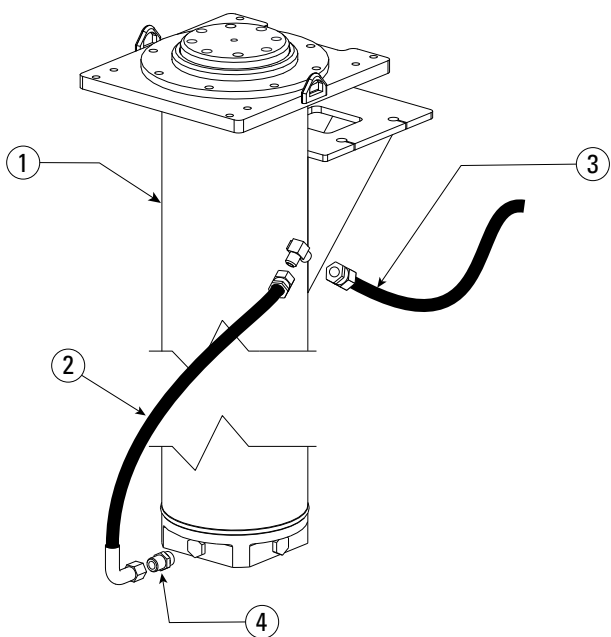
OWNERS RECORD
Complete information
at right and keep in
a safe place.

Date Installed _____
Installed in Bay # _____
Post Serial # _____
Moveable Post 1 _____
Moveable Post 2 _____
Stationary Post _____
Lift Serial # _____
Factory Order # _____
Lift Model # _____

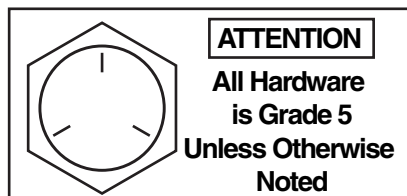
NOTE: For replacement parts - See your nearest Rotary Parts Distributor.

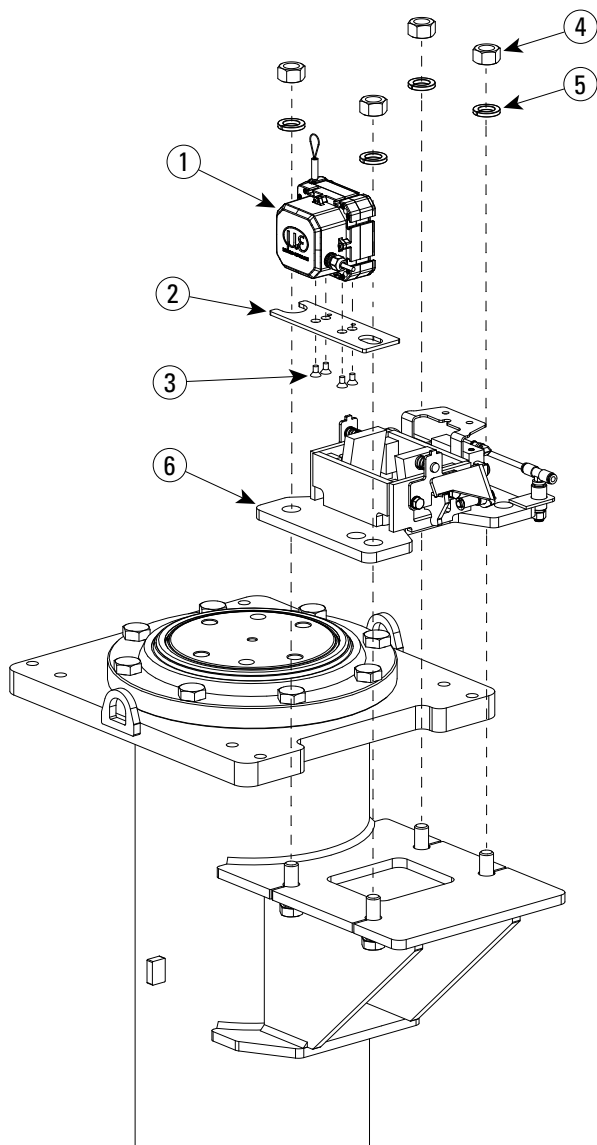


MOVEABLE POST AND HOSES		
ITEM NO.	DESCRIPTION	PART NO.
1	Telescoping Hydraulic Post	JT14
2	Post Hose 42"	FD921
3	Front Post Hose (Housing): HDI25-16	FD928
	HDI25-18	FD924
	HDI25-20	FD929
4	Male Adapter	FA2450



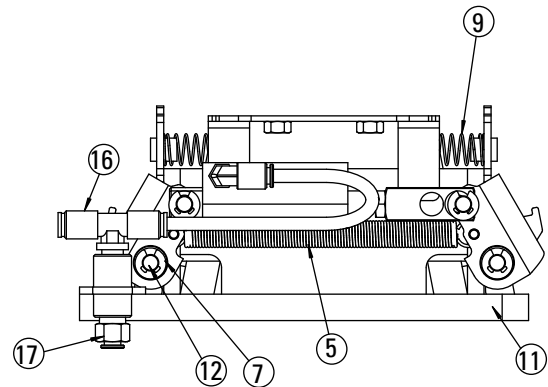
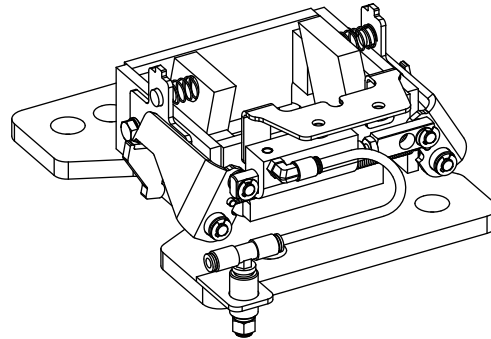
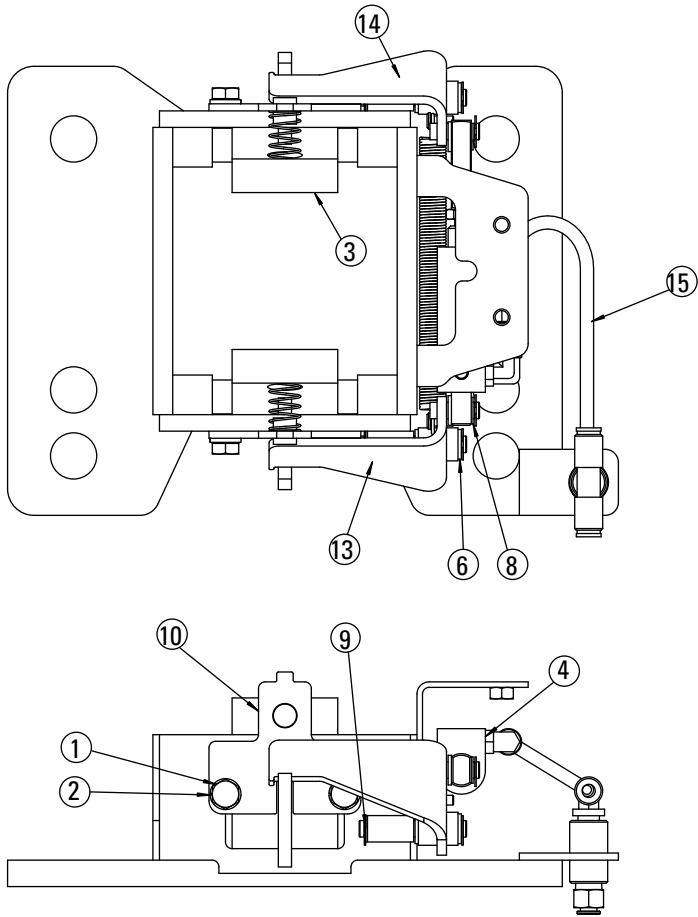
STATIONARY POST AND HOSES		
ITEM NO.	DESCRIPTION	PART NO.
1	Telescoping Hydraulic Post	JT14
2	Post Hose 42"	FD919
3	Rear Stationary Post Hose	FD915
4	Male Adapter	FA2421





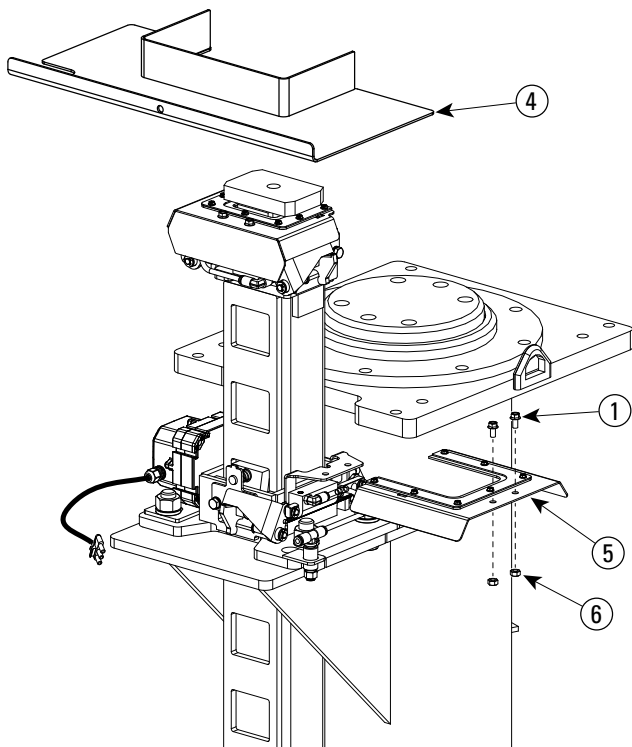
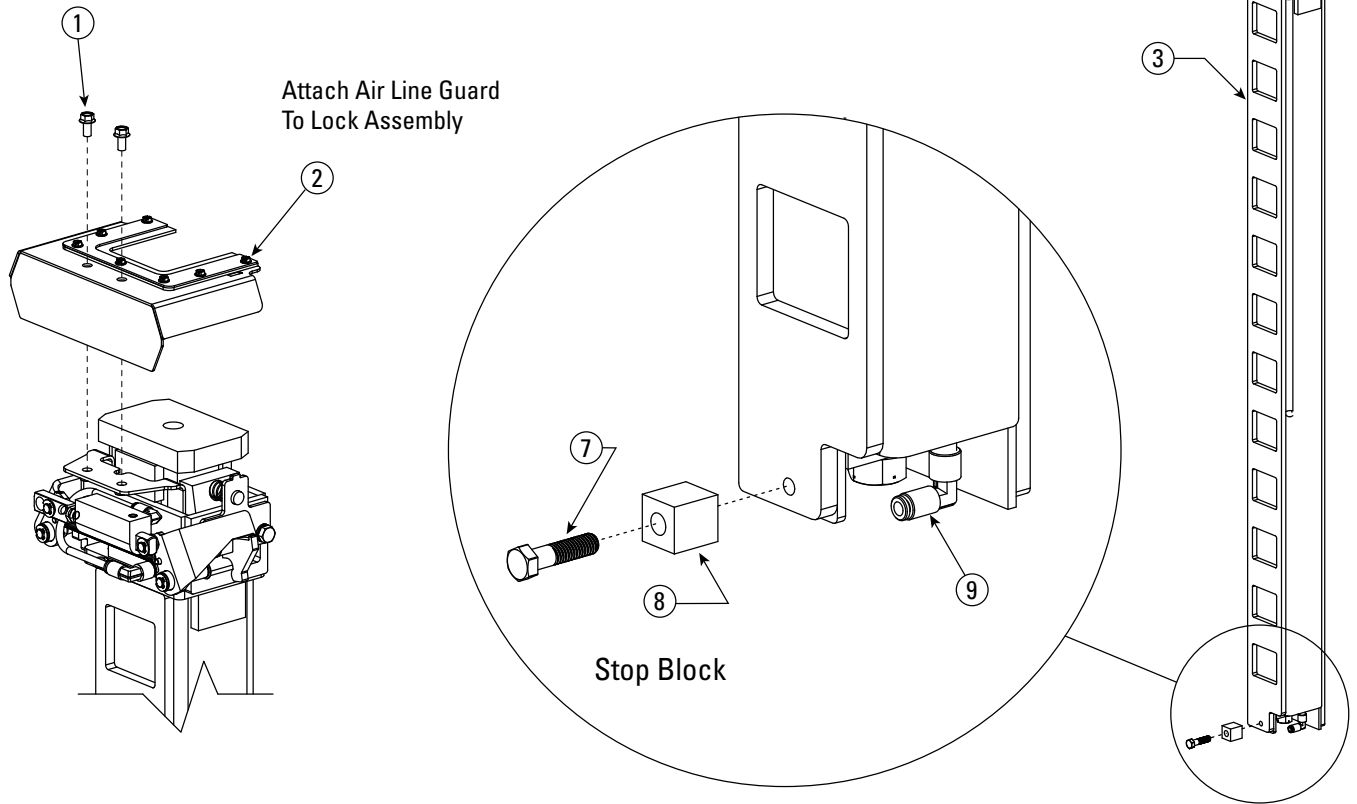
POST POSITION SENSOR, LOCKING LATCH ASSEMBLY AND HARDWARE		
ITEM NO.	DESCRIPTION	PART NO.
1.	Post Position Sensor	MC110174
2.	Post Position Sensor Adapter Brkt.	MC120116
3.	M6-12mm Hex Drive FHCS	B23-6x12
4.	3/4" - 10NC Hex Nut	40760
5.	3/4" Helical Spring Lock Washer	40917
6.	Locking Latch Assembly	FA2452-1
Note: These Components Are The Same For All Post		

Locking Latch Assembly

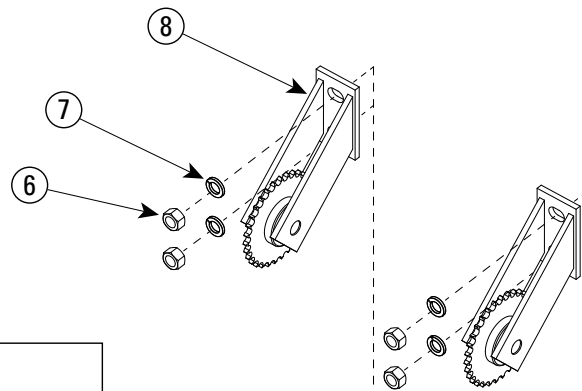
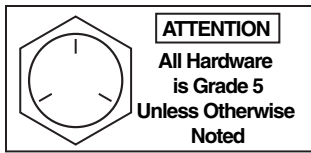
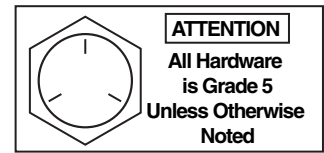
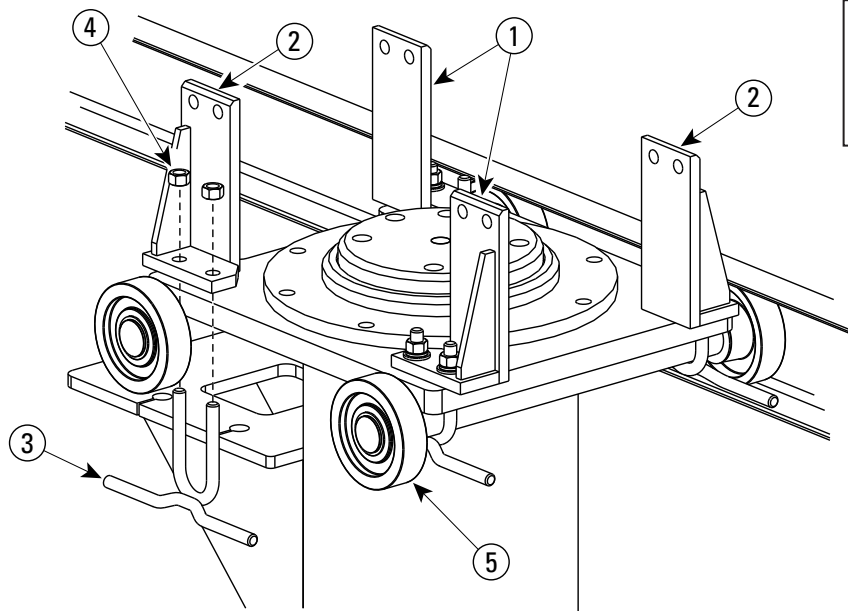


ITEM	QTY	PART NO.	DESCRIPTION
1	4	40401	5/16"-18NC x 1/2" Lg. HHCS, PLTD
2	4	40850	5/16" HELICAL SPRING LW, PLTD
3	2	FA2452-10	LATCH WELDMENT
4	1	FA2452-13	AIR CYLINDER ASSEMBLY
5	1	FA2452-14	CONTROL PLATE SPRING
6	6	FA2452-15	FLANGED BUSHING
7	6	FA2452-16	5/16" SHAFT RETAINING RING
8	4	FA2452-17	NYLON WASHER
9	2	FA2452-18	LATCH SPRING
10	2	FA2452-19	RETAINER PLATE WELD
11	1	FA2452-2	LATCH BASE WELDMENT
12	2	FA2452-22	PIVOT PIN
13	1	FA2452-23	L.H. CONTROL PLATE WELD
14	1	FA2452-28	R.H. CONTROL PLATE WELD
15	1	FA2452-30	AIR LINE
16	1	FA2452-31	MALE BRANCH TEE - 1/4" NPT TO 1/4" TUBE
17	1	FC5191-6	1/4" TUBE TO 1/4" NPT PUSH CONNECTOR

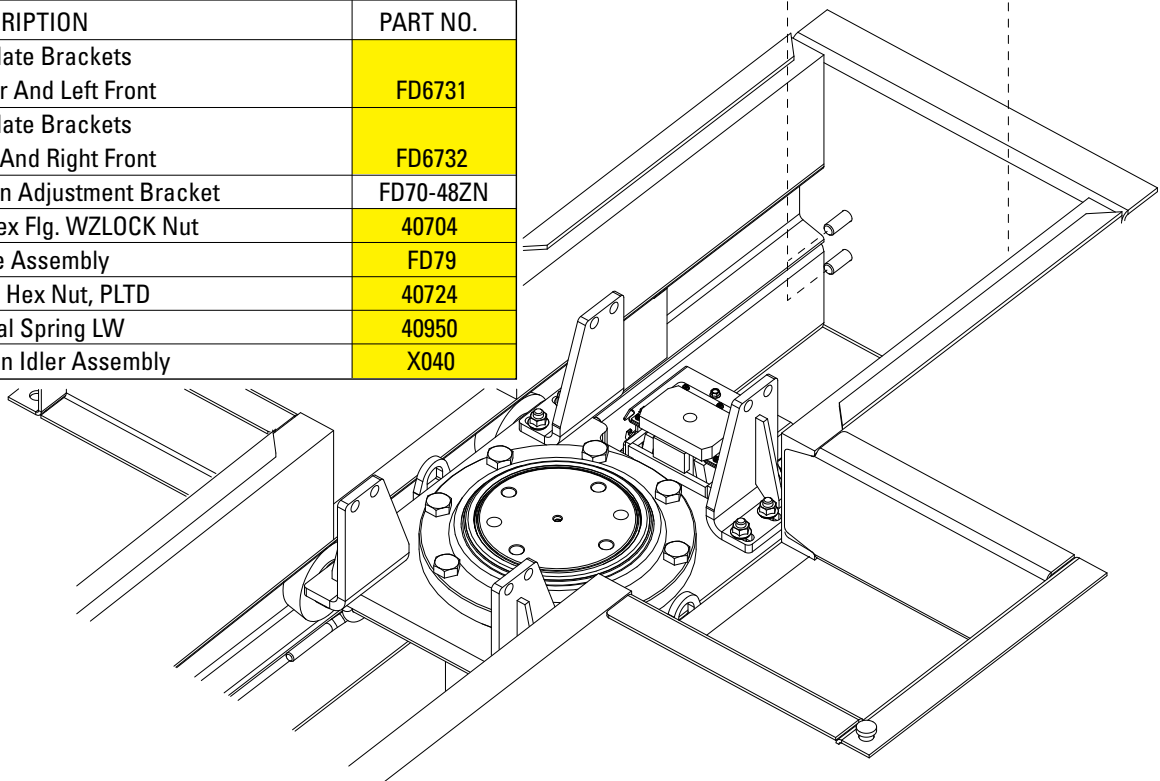
Lock Assembly Detail



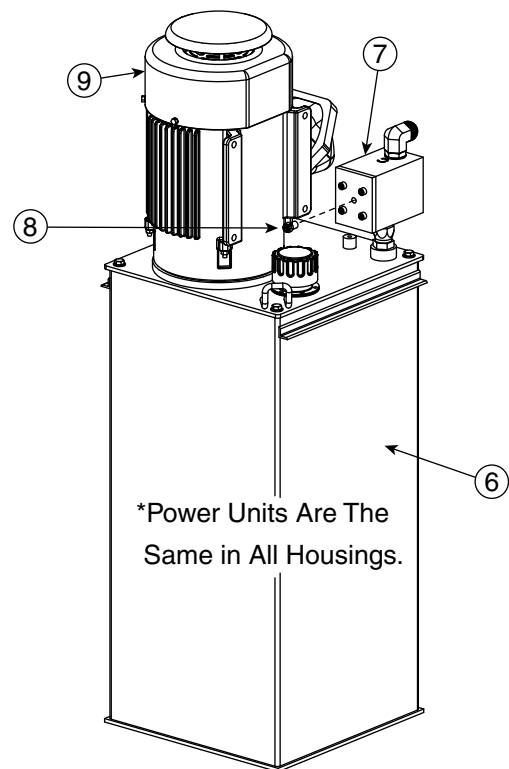
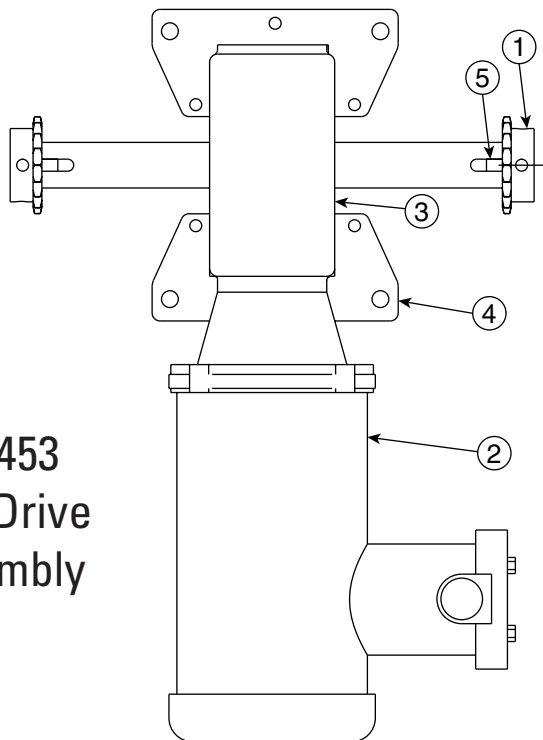
LOCK ASSEMBLY DETAIL		
ITEM NO.	DESCRIPTION	PART NO.
1.	1/4-20NC x 1/2" Flanged Cap Screw Grade 5	40078
2.	Upper Cover Assembly	FA2452-51
3.	Lock Assembly	FA2452-32
4.	Splash Shield	FD6744
5.	Lower Cover Assembly	FA2452-47
6.	1/4-20NC Hex Nut Grade 5	40624
7.	Lock Bolt Gd. 2	FA2452-57
8.	Bolting Bar	FA2444-27
9.	Female Elbow	FA3209-7



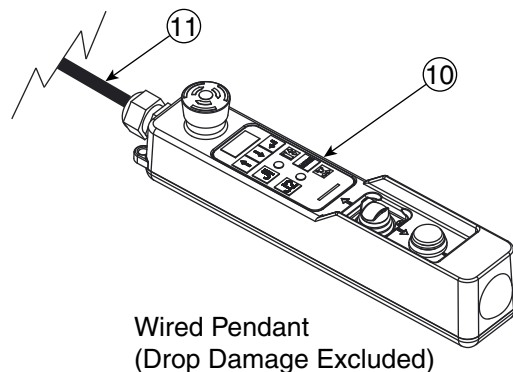
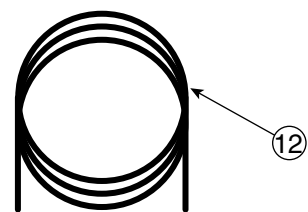
FRONT AXLE AND IDLER ASSEMBLY DETAIL		
ITEM NO.	DESCRIPTION	PART NO.
1.	Shutter Plate Brackets Right Rear And Left Front	FD6731
2.	Shutter Plate Brackets Left Rear And Right Front	FD6732
3.	Axle/Chain Adjustment Bracket	FD70-48ZN
4.	1/2"-13 Hex Flg. WZLOCK Nut	40704
5.	Front Axle Assembly	FD79
6.	5/8"-11NC Hex Nut, PLTD	40724
7.	5/8" Helical Spring LW	40950
8.	Rear Chain Idler Assembly	X040



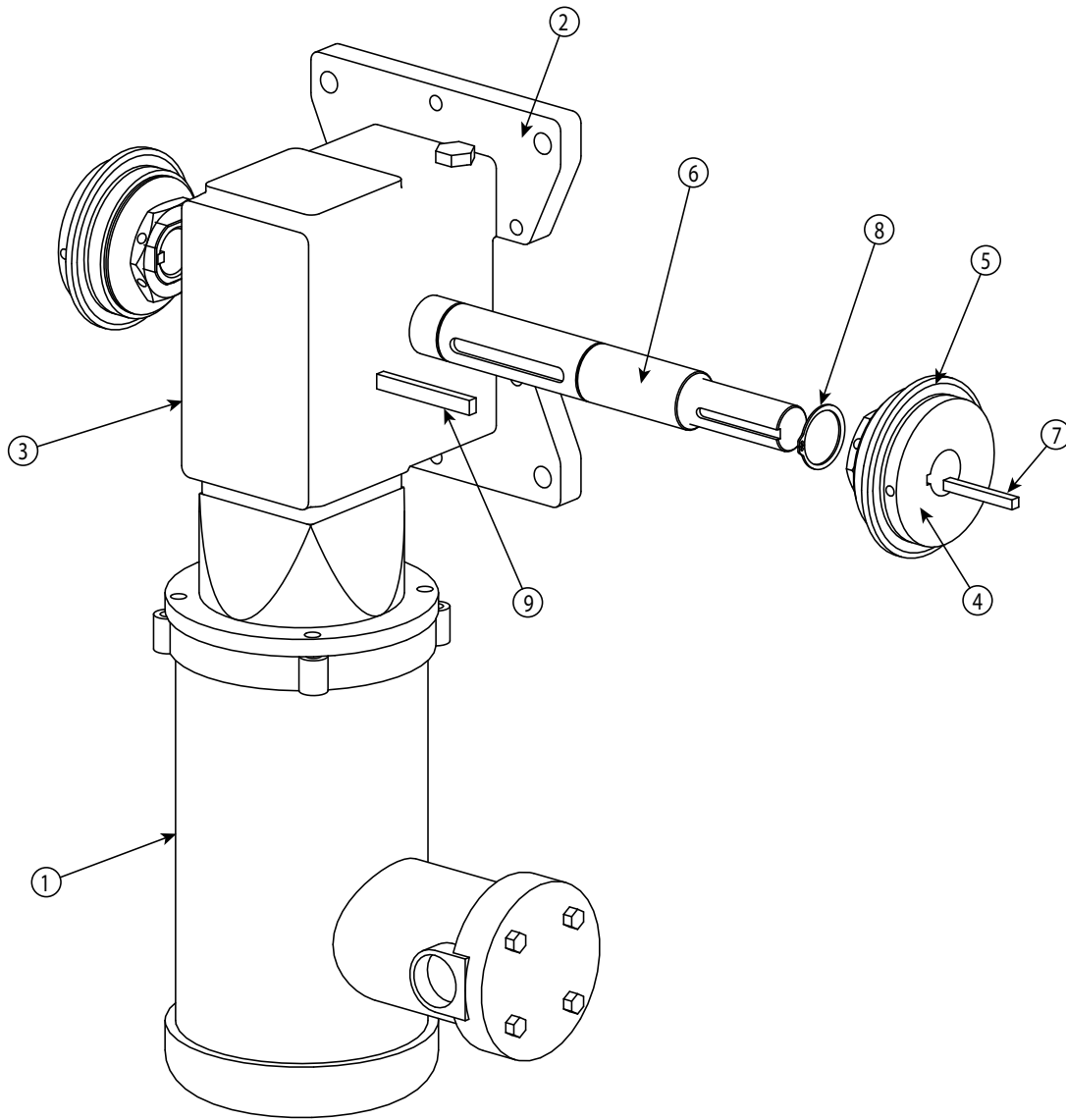
FA2453 Spot Drive Assembly



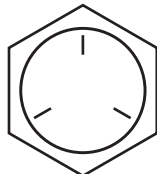
MOTOR CHAIN DRIVE ASSEMBLY AND POWER UNIT		
ITEM NO.	DESCRIPTION	PART NO.
1.	Sprocket	FA2414-4
2.	1/2hp. Motor T.E.F.C.	FA2453-1
3.	Gear Box 40:1	FA2453-2
4.	Mounting Base Bar	FA2453-4
5.	3/8" x 3/8" x 1-1/2" Key	FD7120PC5
6.	208/230/460V Power Unit	P2014
7.	Check Valve	FA2443
8.	Male Connector	FC5191-6
9.	Motor 5hp. 208/230/460V	P2000-12
10.	Wired 2-Post Pendant	FA9125
	Wired 3-Post Pendant	FA9123
11.	Wired Pendant Cable, 100'	FA9123-18
	Wired Pendant Cable, 200'	FA9123-19
12.	Metal Clad Motor Cable, 100'	FA2446-2
	Metal Clad Motor Cable, 200'	FA2446-1



Wired Pendant
(Drop Damage Excluded)

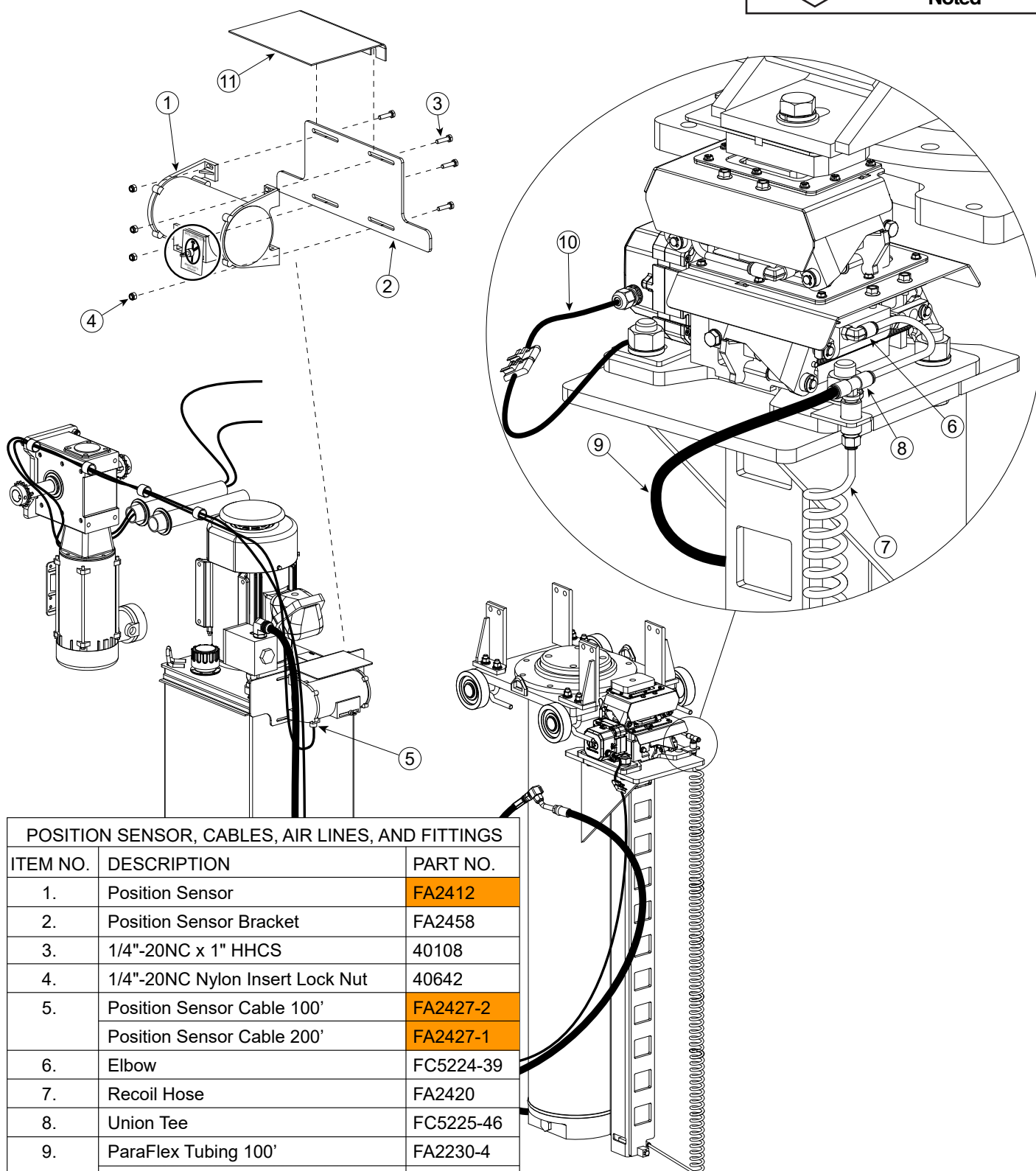


FA2456 SPOT DRIVE ASSEMBLY W/ CLUTCH			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	FA2467	2 HP MOTOR
2	2	FA2453-4	MOUNTING BASE BAR
3	1	FA2453-6	GEARBOX 40:1
4	2	FD7171-1	CLUTCH
5	2	FD7171-2	SPROCKET #40 - 26 TEETH
6	1	FD7171-3	GEAR BOX SHAFT
7	2	FD7171-4	SLIP CLUTCH SPROCKET KEY
8	2	FD7171-5	SNAP RING
9	1	FD7171-6	GEAR BOX KEY

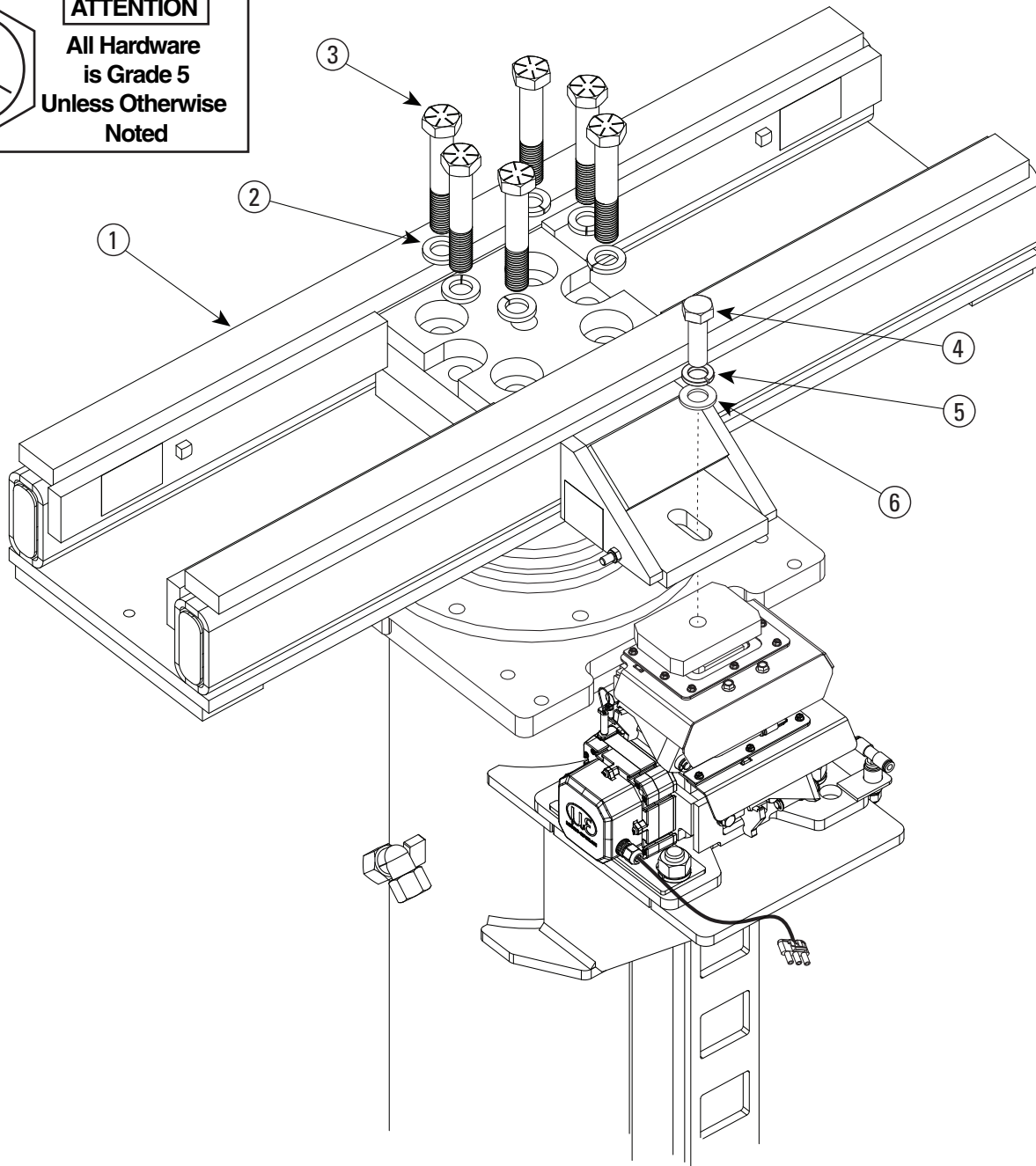
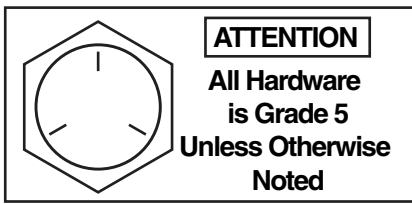


ATTENTION

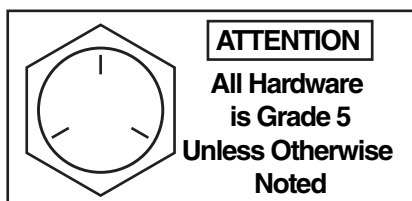
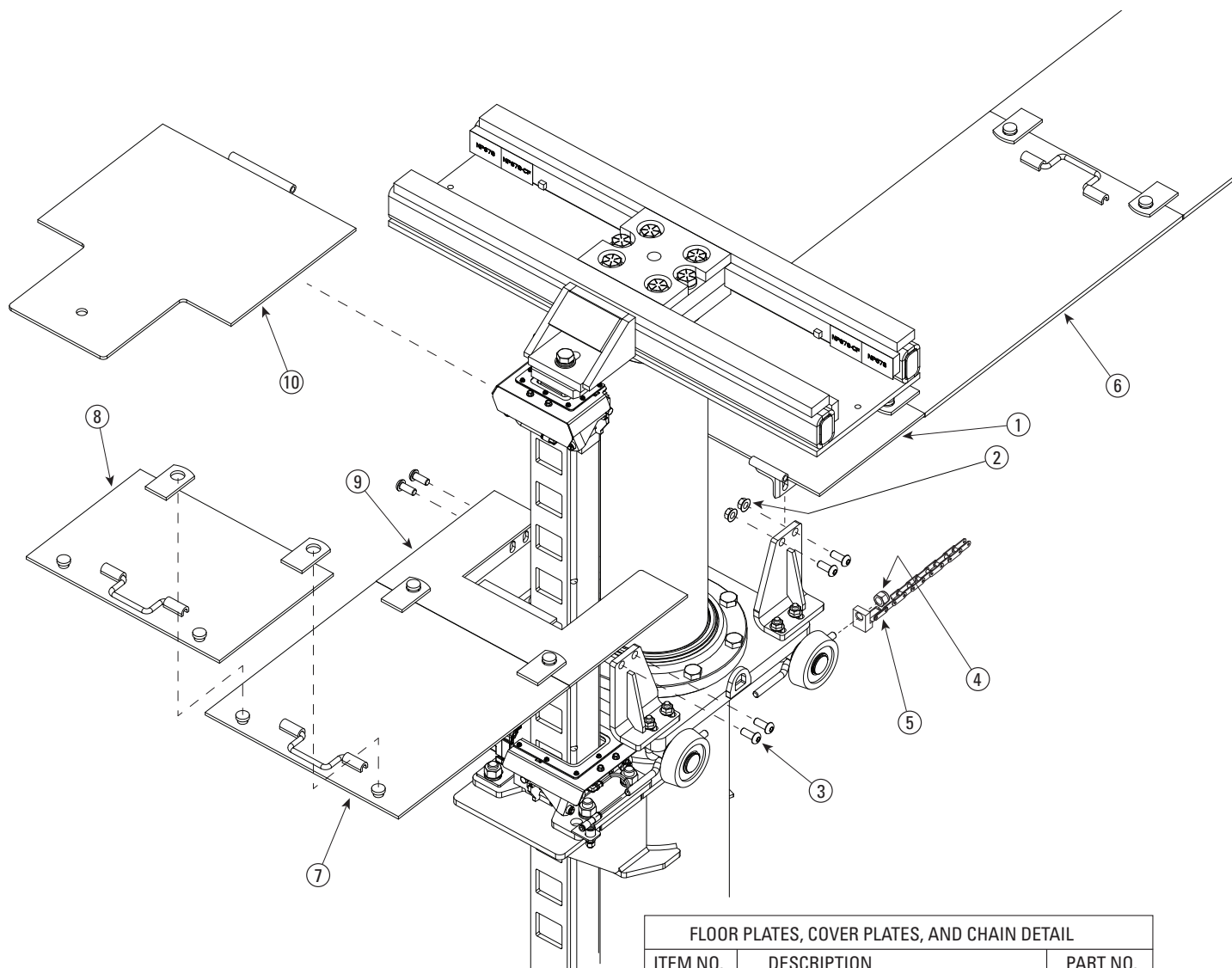
All Hardware
is Grade 5
Unless Otherwise
Noted



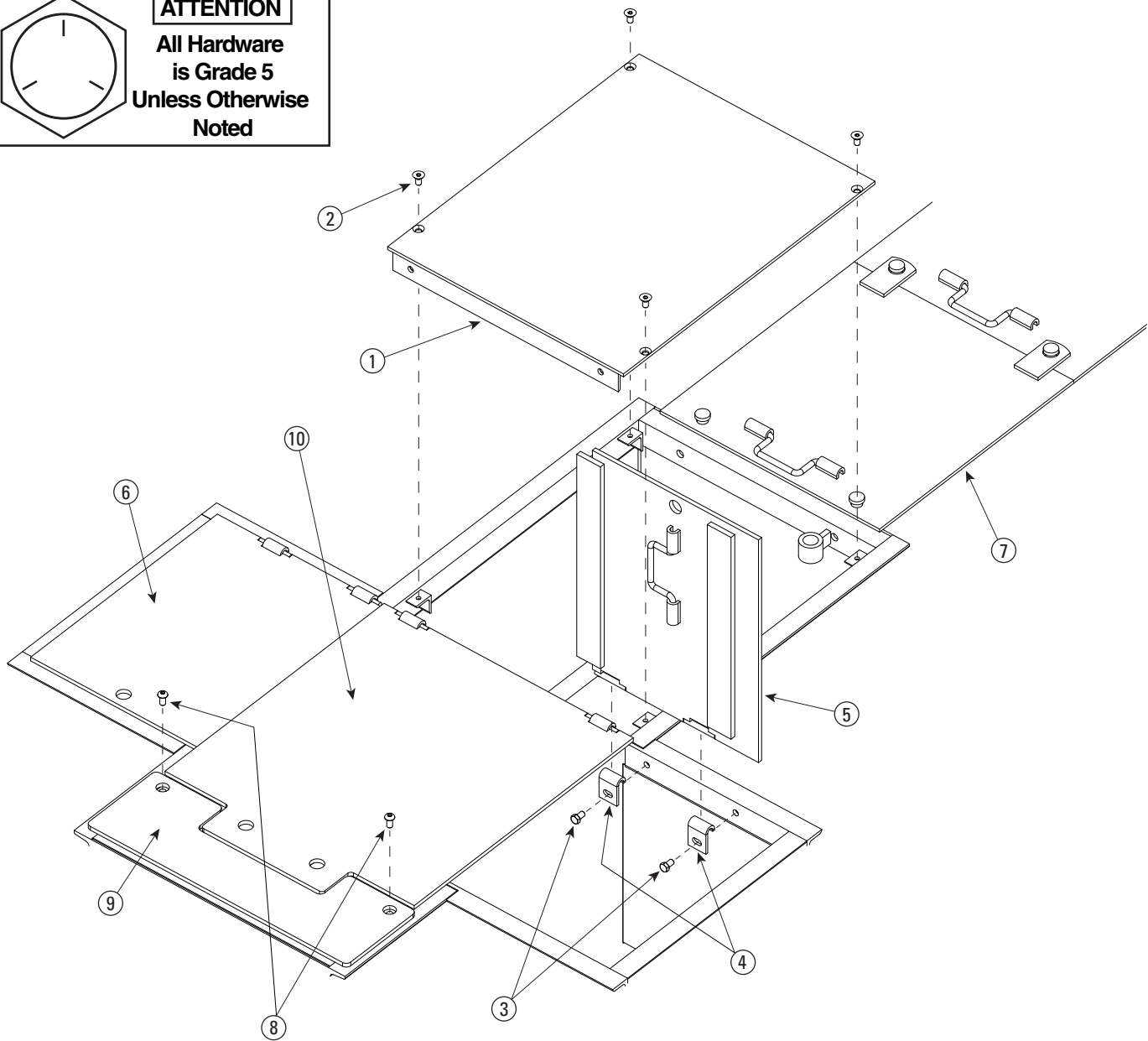
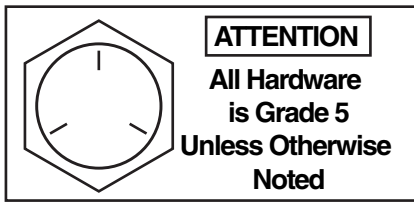
POSITION SENSOR, CABLES, AIR LINES, AND FITTINGS		
ITEM NO.	DESCRIPTION	PART NO.
1.	Position Sensor	FA2412
2.	Position Sensor Bracket	FA2458
3.	1/4"-20NC x 1" HHCS	40108
4.	1/4"-20NC Nylon Insert Lock Nut	40642
5.	Position Sensor Cable 100'	FA2427-2
	Position Sensor Cable 200'	FA2427-1
6.	Elbow	FC5224-39
7.	Recoil Hose	FA2420
8.	Union Tee	FC5225-46
9.	ParaFlex Tubing 100'	FA2230-4
	ParaFlex Tubing 200'	FA2230-3
10.	Rise Position Sensor Cable 100'	FA2424-2
	Rise Position Sensor Cable 200'	FA2424-1
11.	Horizontal String Pot Cover	FA2454-5



35,000 Lb. CAPACITY SADDLE DETAIL		
ITEM NO.	DESCRIPTION	PART NO.
1.	35,000 Lb. Cap. LP Saddle	FD2427
	35,000 Lb. Cap. Saddle	FD2428
2.	7/8" Lock Washer	41071 CHW
3.	7/8"-9NC x 5" HHCS GRD. 8	40523 CHW
	7/8" x 2-3/4" SHCS GRD. 8 (ULP)	FD2377-8
4.	3/4"-10NC x 2-1/2" HHCS	40471
5.	3/4" Lock Washer	40917
6.	3/4" Flat Washer	41021



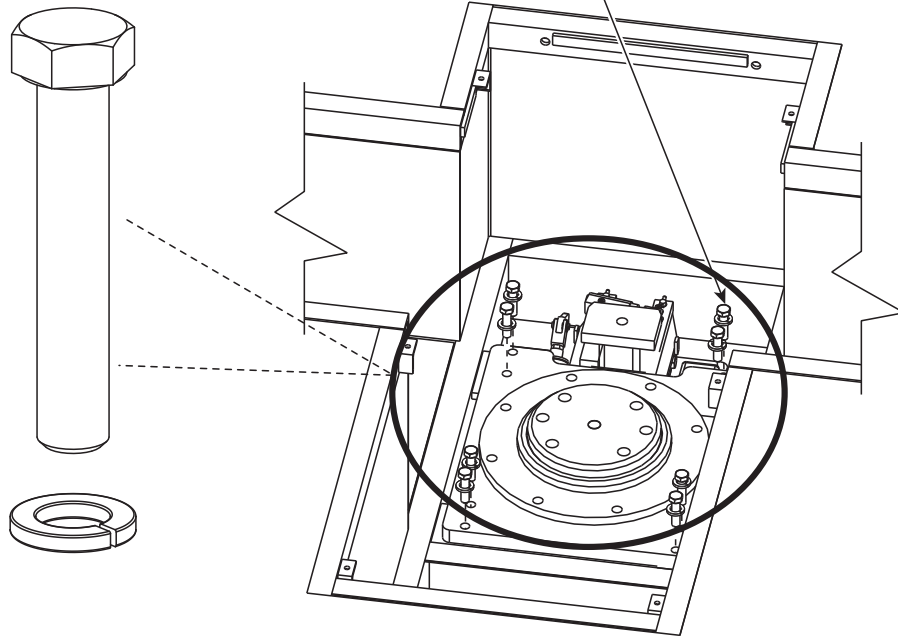
FLOOR PLATES, COVER PLATES, AND CHAIN DETAIL		
ITEM NO.	DESCRIPTION	PART NO.
1.	Front Cover Plate	FD6725
2.	1/2"-13 Hex Flg. WZLOCK Nut	40704
3.	1/2"-13NC x 1-1/4" Lg. Hex Soc BHCS	40284
4.	1/2"-13NC Hex Nylon Lock Nut	40707
5.	Drive Chain Assembly	
	HDI-16	FD7175
	HDI-18	FD7176
	HDI-20	FD7177
6.	29-1/2" Floor Plate	FD6364
7.	19-1/2" Floor Plate	FD6363
8.	13" Floor Plate	FD6724
9.	Rear Floor Plate	FD6737
10.	Center Floor Plate	FD6738



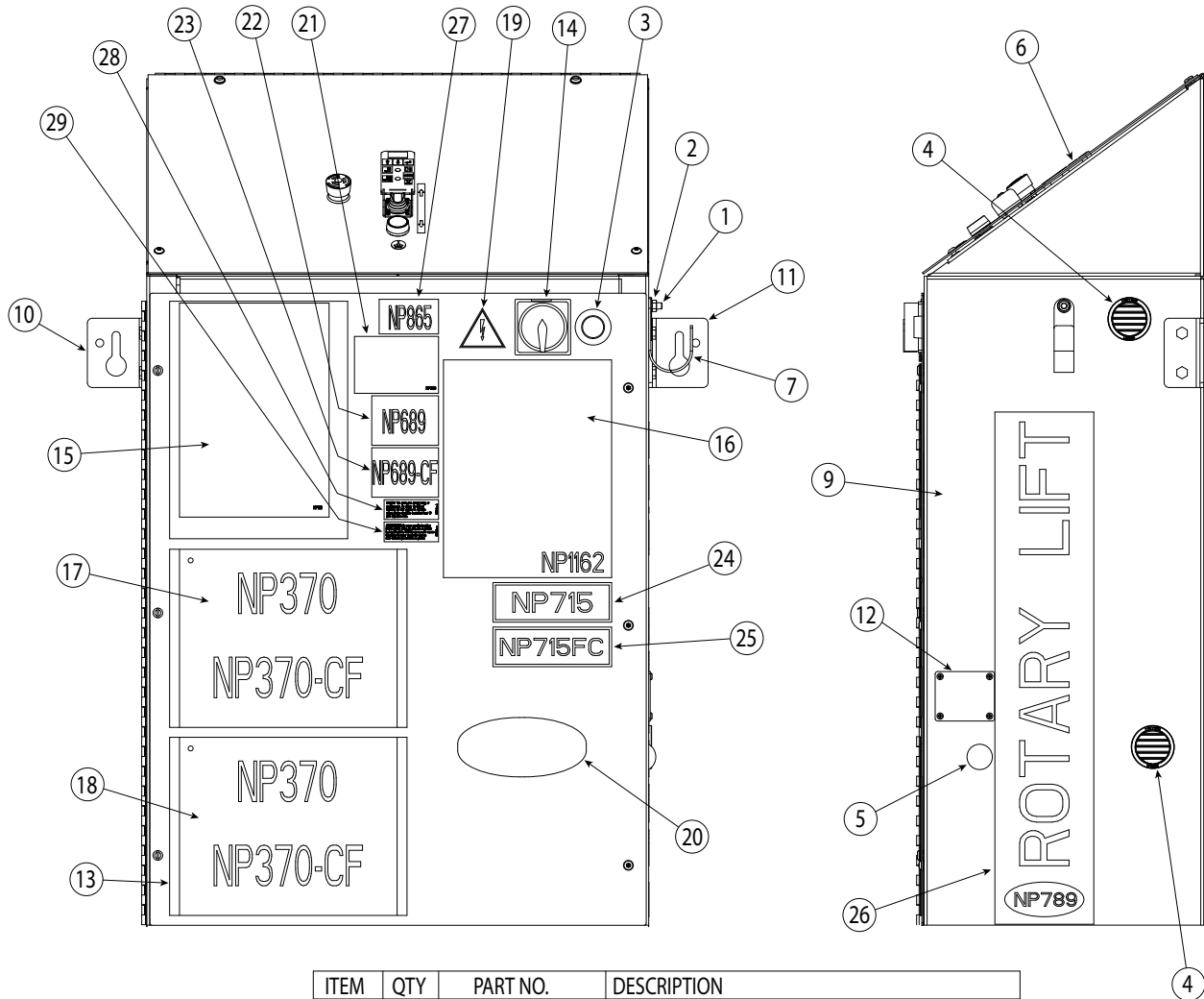
STATIONARY POST FLOOR PLATES AND COVER PLATES		
ITEM NO.	DESCRIPTION	PART NO.
1.	Front Filler Plate	FD6686
2.	3/8"-16NC x 3/4" Lg. Flg. C'Sink SHCS	40133
3.	3/8"-16NC x 5/8" Lg. HHCS	40155
4.	Door Retainers	FF634-7
5.	Left End Plate	FD6689
6.	Right End Plate	FD6688
7.	19-1/2" Floor Plate	FD6363
8.	3/8"-16NC x 3/4" Lg. BHCS	40157
9.	Rear Filler Plate	FD6648-17
10.	Center Cover Plate	FD6648-21

Install (8)
1/2"-13NC x 2-3/4" (Part Number 40356) HHCS And Lock Washers
Grade 8 High Strength

DO NOT EXCEED
1/8"
In Shims
Torque Bolts To
60 ft. lb.
(Oiled)

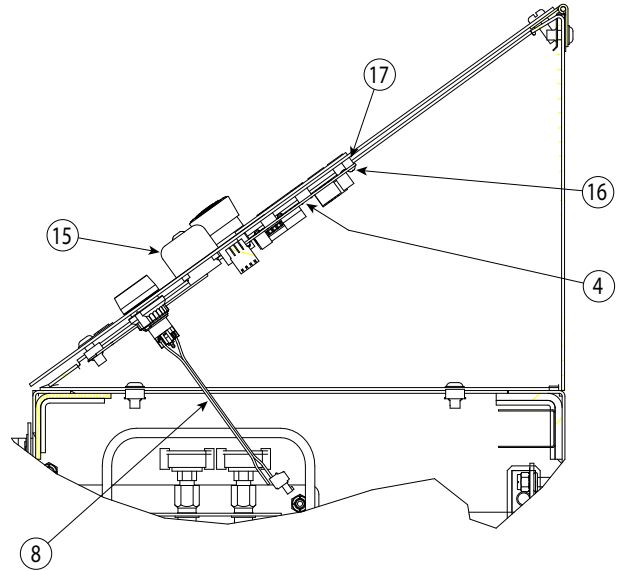
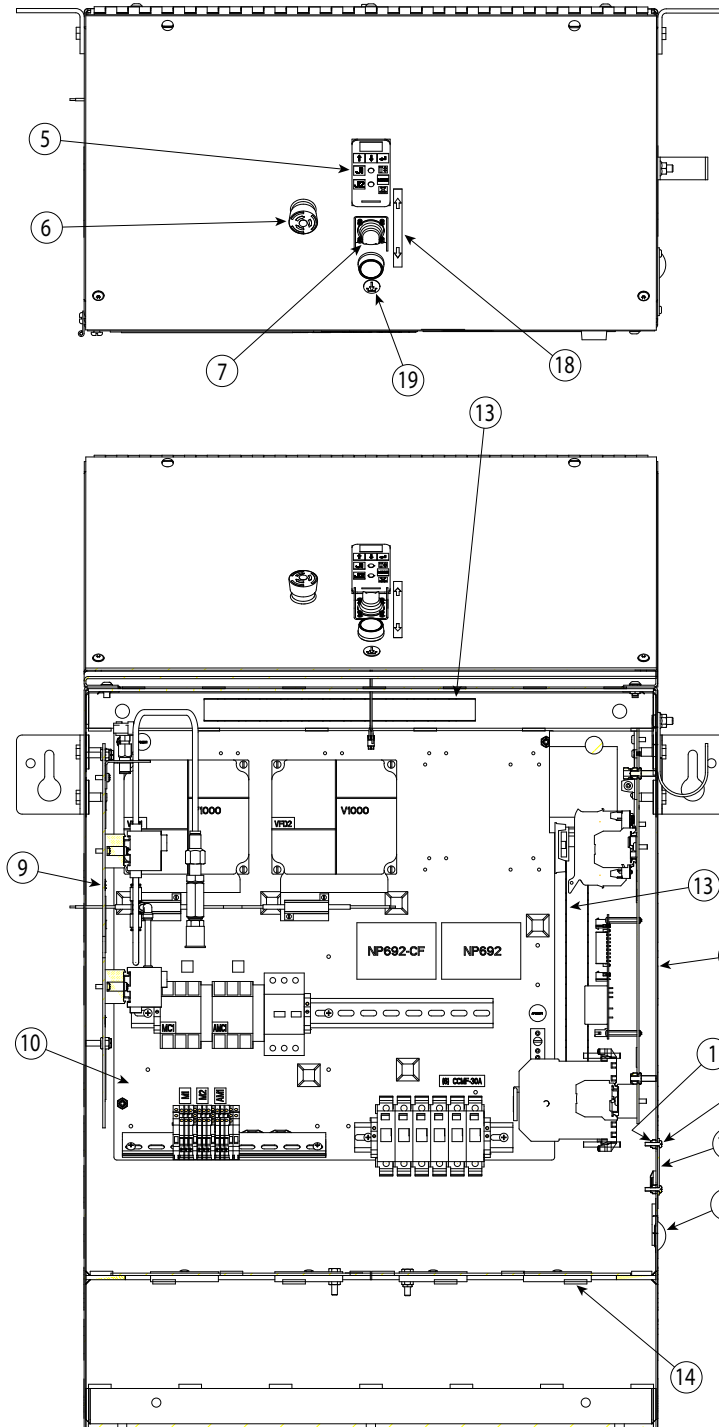


2-Post 230V



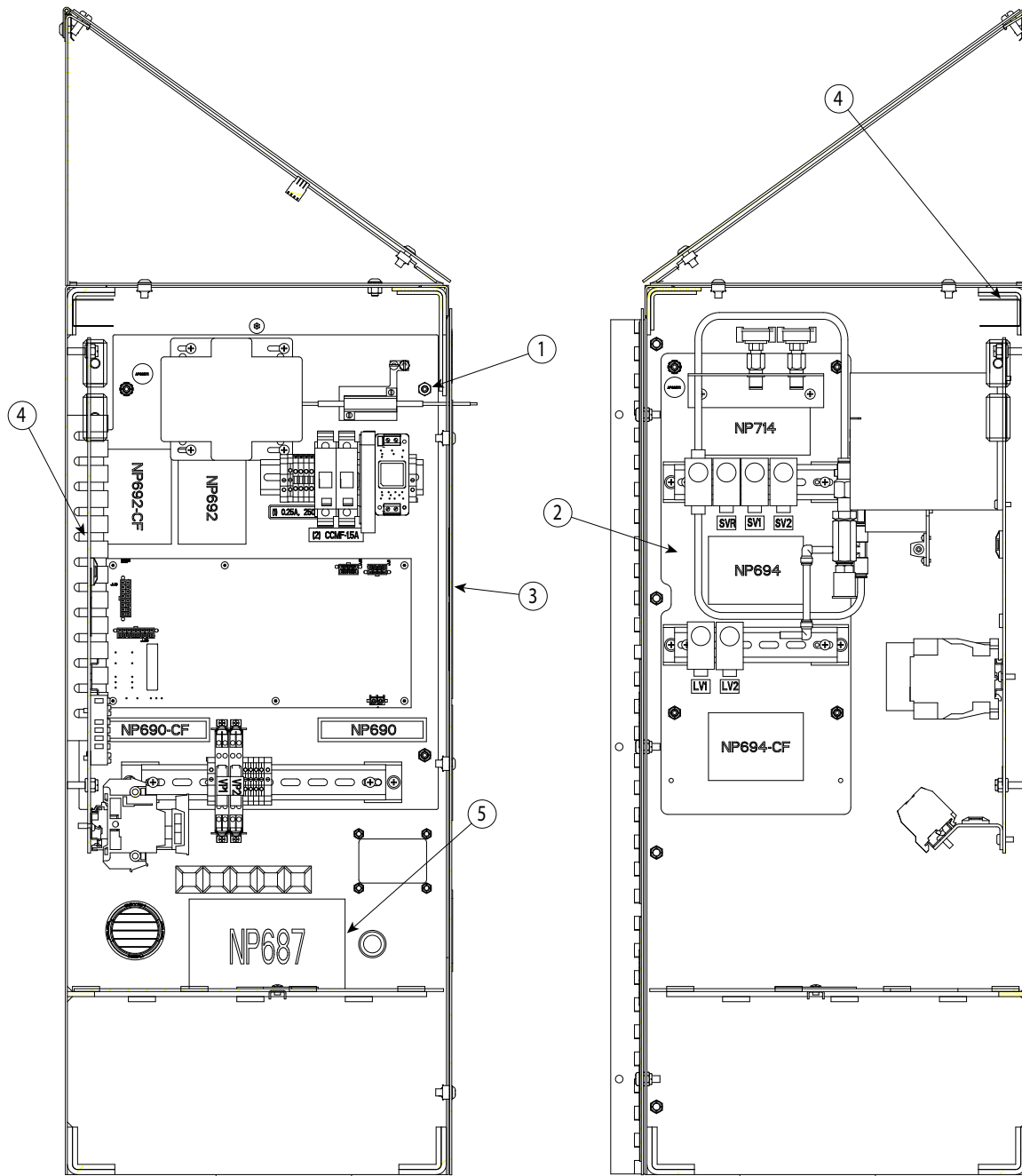
ITEM	QTY	PART NO.	DESCRIPTION
1	1	40322	5/16-18NC x 3/4" Lg. HEX SOC BHCS, PLTD
2	1	40678	5/16"-18NC HEX FLGD WZLOCK NUT, PLTD
3	1	AC700029	COMPLETE, LIGHT, GREEN
4	2	FA5311	LOUVERED/FILTERED HOLE PLUG 2" DIAMETER
5	1	FA7958-10	7/8" HOLE PLUG
6	1	FA9121	PENDANT MEMBRANE TOUCHPAD
7	1	M120262	REEL CORD HANGER
8	1	MC110135	WIRE & HARNESS KIT, MOD235 2-POST
9	1	MC110170	SIDE PANEL HDI225ASSY
10	1	MC120093LH	WALL MOUNT LEFT
11	1	MC120093RH	WALL MOUNT RIGHT
12	1	MC120109	CONNECTIVITY PORT COVER
13	3	MC130054	POUCH
14	1	MC130167	DISCONNECT SWITCH
15	1	NP1113	NAMEPLATE
16	1	NP1162	NAMEPLATE - PREVENTIVE MAINTENANCE
17	2	NP370	PLACARD W/BLACK PLASTIC TIE (ALI/WL500w)
18	2	NP370CF	PLACARD (ALI/WL500w) FRENCH CANADIAN
19	1	NP584	HIGH VOLTAGE NAMEPLATE
20	1	NP607	NAMEPLATE
21	1	NP1715	NAMEPLATE
22	1	NP689	NAMEPLATE
23	1	NP689-CF	NAMEPLATE, FRENCH CANADIAN
24	1	NP715	NAMEPLATE
25	1	NP715FC	NAMEPLATE, FRENCH CANADIAN
26	2	NP789	ROTARY DECAL
27	1	NP865	ETL ACCESSORY LABEL
28	1	NP870	PENDANT WARNING LABEL
29	1	NP884	PENDANT WARNING LABEL, FRENCH CANADIAN

2-Post 230V

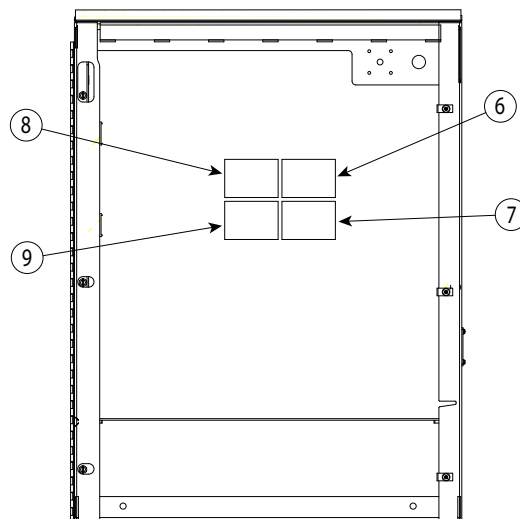


ITEM	QTY	PART NO.	DESCRIPTION
1	4	40649	#8-32NC HEX NYLON INSERT LOCKNUT
2	4	41457	#8-32NC x 5/8" Lg. PHIL TYPE B PHTS, PLTD
3	1	FA7958-10	7/8" HOLE PLUG
4	1	FA9118	PENDANT CIRCUIT BOARD
5	1	FA9121	PENDANT MEMBRANE TOUCHPAD
6	1	FA9123-9	EMERGENCY STOP ASSY, PENDANT
7	1	FA9123-11	THUMBSTICK ASSY, PENDANT
8	1	FA9123-13	LOWER TO LOCKS WIRING ASSY, PENDANT
9	1	MC110128	AIR PANEL ASSEMBLY
10	1	MC110129	LOWER BACK PANEL ASM.
11	1	MC110170	SIDE PANEL HDI225ASSY
12	1	MC120109	CONNECTIVITY PORT COVER
13	2	MC130034	WIRE WAY
14	4	MC130184	2" GALVANIZED HOLE PLUG
15	1	MC130258	THUMB JOYSTICK GUARD
16	4	MC130259	#4 x 3/8 PHMS THREAD FORMING SCREW, ZINC
17	4	MC130260	PLASTIC STAND-OFF MOD35 CONTROL LESS PENDANT
18	1	NP1200	DIRECTIONAL ARROWS NAMEPLATE
19	1	NP980	NAMEPLATE, LOWER TO LOCK

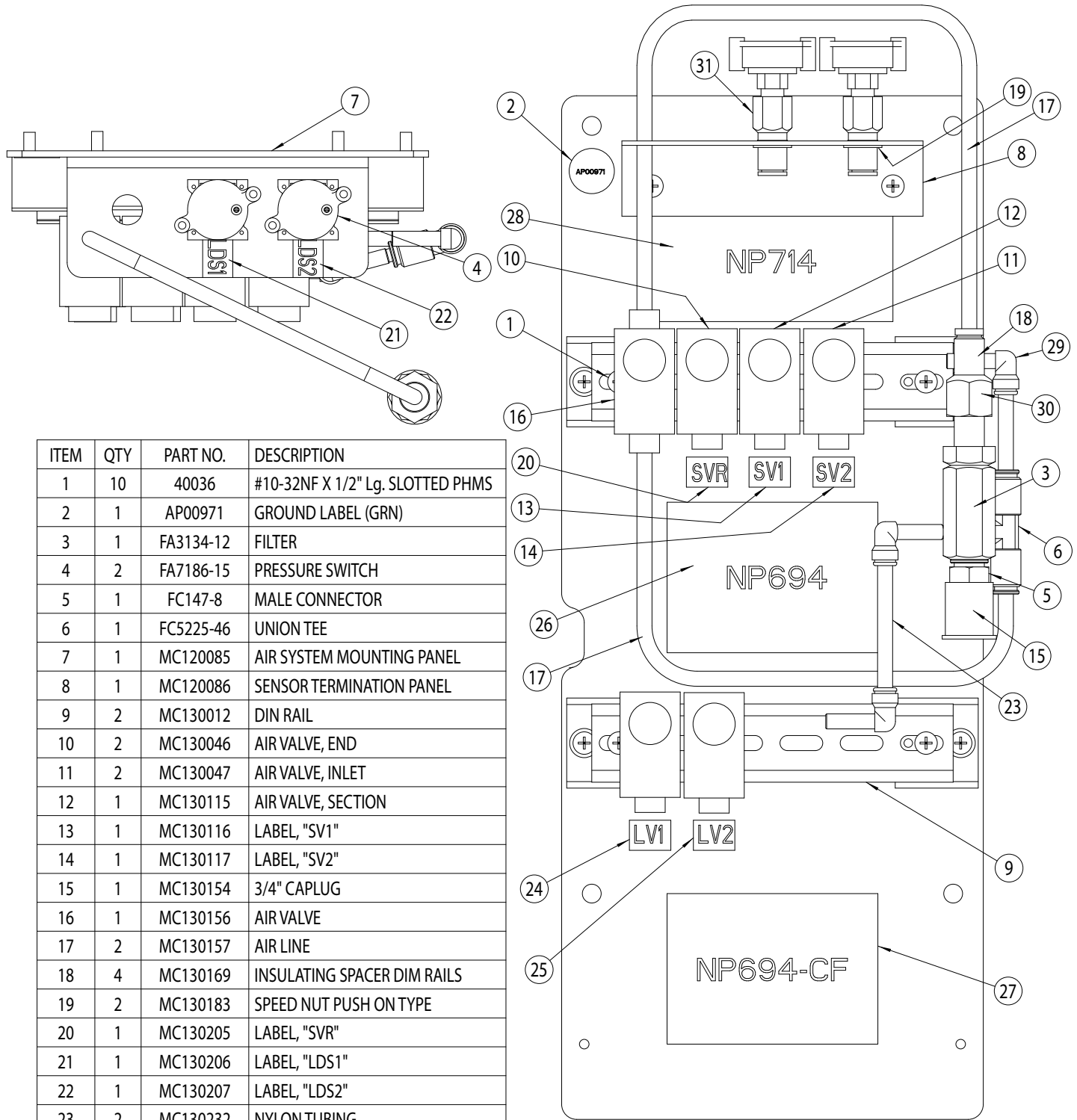
2-Post 230V



ITEM	QTY	PART NO.	DESCRIPTION
1	13	40642	1/4"-20NC HEX NYLON INSERT LOCKNUT
2	1	MC110128	AIR PANEL ASSEMBLY
3	1	MC110170	SIDE PANEL HDI225ASSY
4	2	MC130034	WIRE WAY
5	1	NP687	NAMEPLATE
6	1	NP691	NAMEPLATE
7	1	NP691-CF	NAMEPLATE, FRENCH CANADIAN
8	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
9	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN



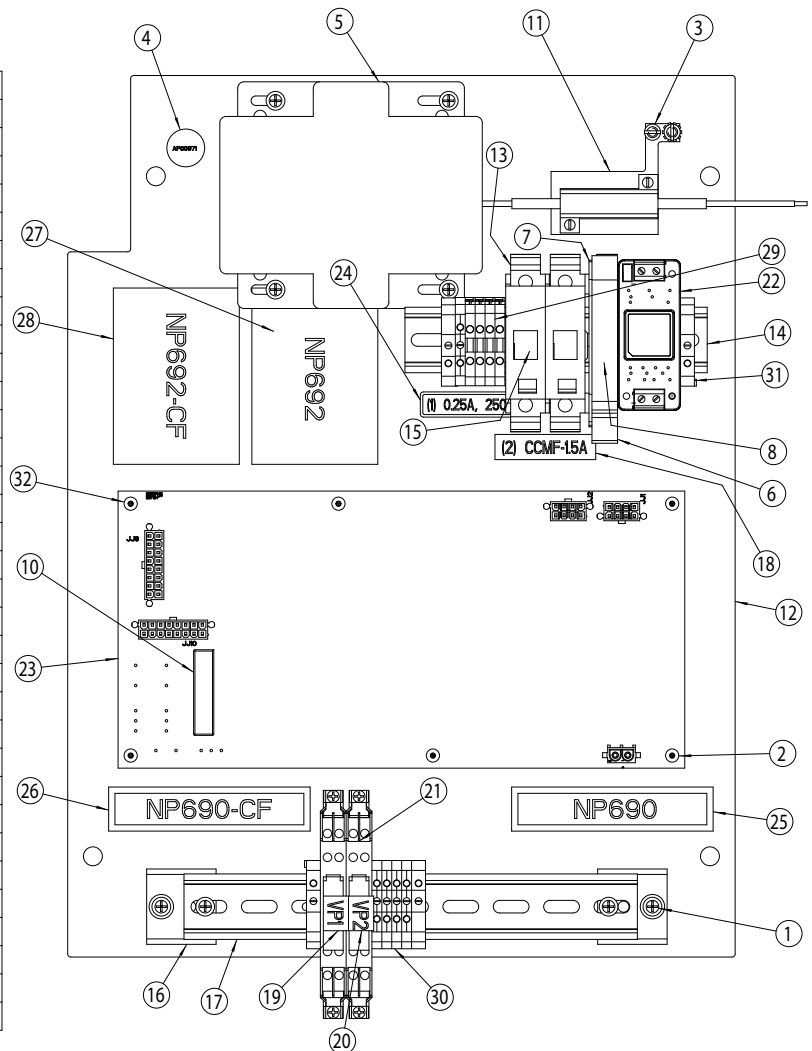
2-Post 230V



ITEM	QTY	PART NO.	DESCRIPTION
1	10	40036	#10-32NF X 1/2" Lg. SLOTTED PHMS
2	1	AP00971	GROUND LABEL (GRN)
3	1	FA3134-12	FILTER
4	2	FA7186-15	PRESSURE SWITCH
5	1	FC147-8	MALE CONNECTOR
6	1	FC5225-46	UNION TEE
7	1	MC120085	AIR SYSTEM MOUNTING PANEL
8	1	MC120086	SENSOR TERMINATION PANEL
9	2	MC130012	DIN RAIL
10	2	MC130046	AIR VALVE, END
11	2	MC130047	AIR VALVE, INLET
12	1	MC130115	AIR VALVE, SECTION
13	1	MC130116	LABEL, "SV1"
14	1	MC130117	LABEL, "SV2"
15	1	MC130154	3/4" CAPPLUG
16	1	MC130156	AIR VALVE
17	2	MC130157	AIR LINE
18	4	MC130169	INSULATING SPACER DIM RAILS
19	2	MC130183	SPEED NUT PUSH ON TYPE
20	1	MC130205	LABEL, "SVR"
21	1	MC130206	LABEL, "LDS1"
22	1	MC130207	LABEL, "LDS2"
23	2	MC130232	NYLON TUBING
24	1	NP1139	LABEL, "LV1"
25	1	NP1140	LABEL, "LV2"
26	1	NP694	NAMEPLATE
27	1	NP694CF	NAMEPLATE, FRENCH CANADIAN
28	1	NP714	NAMEPLATE
29	3	P553-10	ELBOW
30	1	T140081	FEMALE CONNECTOR
31	2	T140151	FEMALE CONNECTOR

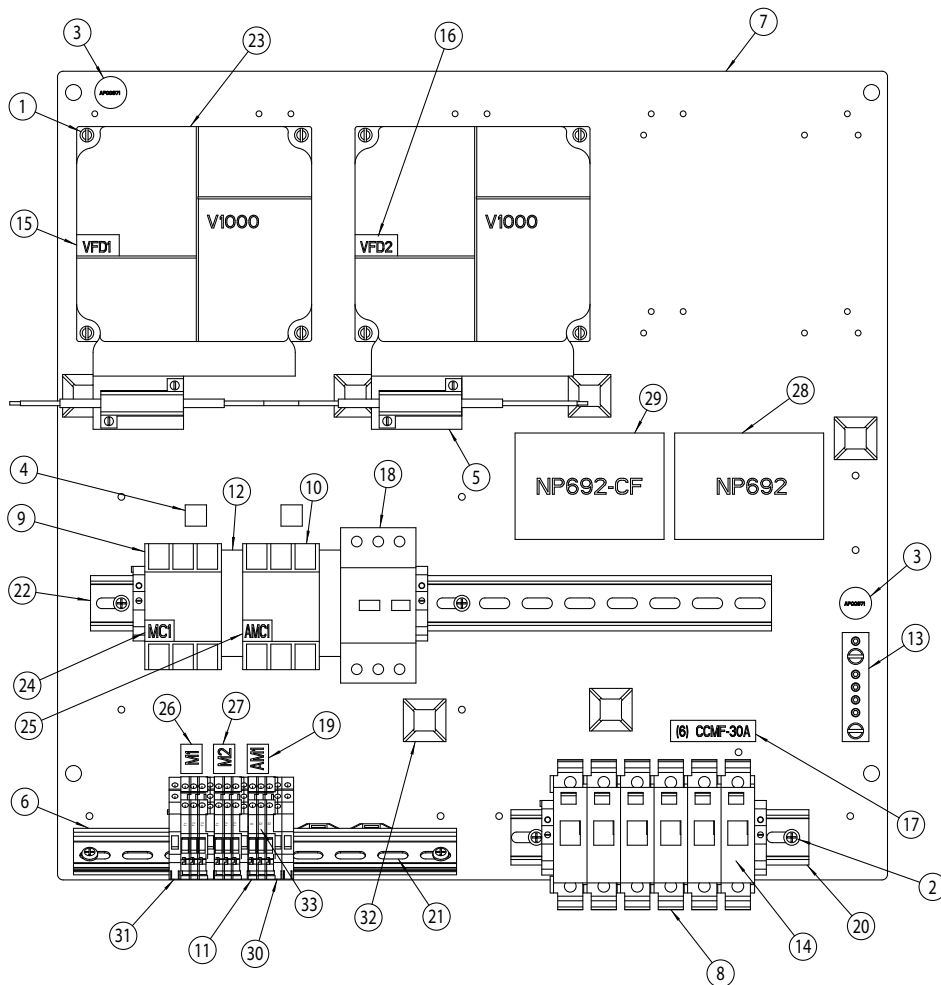
2-Post 230V

ITEM	QTY	PART NO.	DESCRIPTION
1	10	40036	#10-32NF X 1/2" Lg. SLOTTED PHMS
2	12	40177	#6-32NC x 1/4" Lg. BHCS, GRD 2
3	1	41428	#8-32NC x 1/4" Lg. SLOTTED PHMS, PLTD
4	1	AP00971	GROUND LABEL (GRN)
5	1	FA8132	SOLA TRANSFORMER
6	1	FA9138	FUSE TERMINAL BLOCK
7	1	FA9139	END PLATE
8	1	FA9140	FUSE, 0.25A
9	1	FA9141	ZENER DIODE WIRE
10	1	FA9142	RELAY MODULE
11	1	MC110069	RESISTOR ASSM. 230V
12	1	MC120100	PCB MOUNTING PLATE
13	2	MC130003	FUSE TERMINAL BLOCK
14	1	MC130012	DIN RAIL
15	2	MC130164	FUSE, 1.5A
16	2	MC130169	INSULATING SPACER DIM RAILS
17	1	MC130179	DIN RAIL 9" (LOCATED INSIDE OF MC130003)
18	1	MC130185	LABEL, "CCMF"
19	1	MC130200	LABEL, "VP1"
20	1	MC130201	LABEL, "VP2"
21	2	MC130255	ZENER DIODE SAFETY BARRIER
22	1	MC130277	POWER SUPPLY 3.3V
23	1	MC130278	MAXNC CONTROL BD 2P HDI (NOT SHOWN)
24	1	NP1159	LABEL, "(1) .25A, 250V" (LOCATED INSIDE OF FA9138)
25	1	NP690	NAMEPLATE
26	1	NP690-CF	NAMEPLATE, FRENCH CANADIAN
27	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
28	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
29	4	XS130080	TERMINAL BLOCK
30	5	XS130081	GROUND BLOCK
31	4	XS130085	END STOP
32	6	XS130097	FEMALE THD STAND OFF #6-32 x 1-1/4 Lg. MMC #91780A760
33	1	XS130119	MARKER CARDS



2-Post 230V

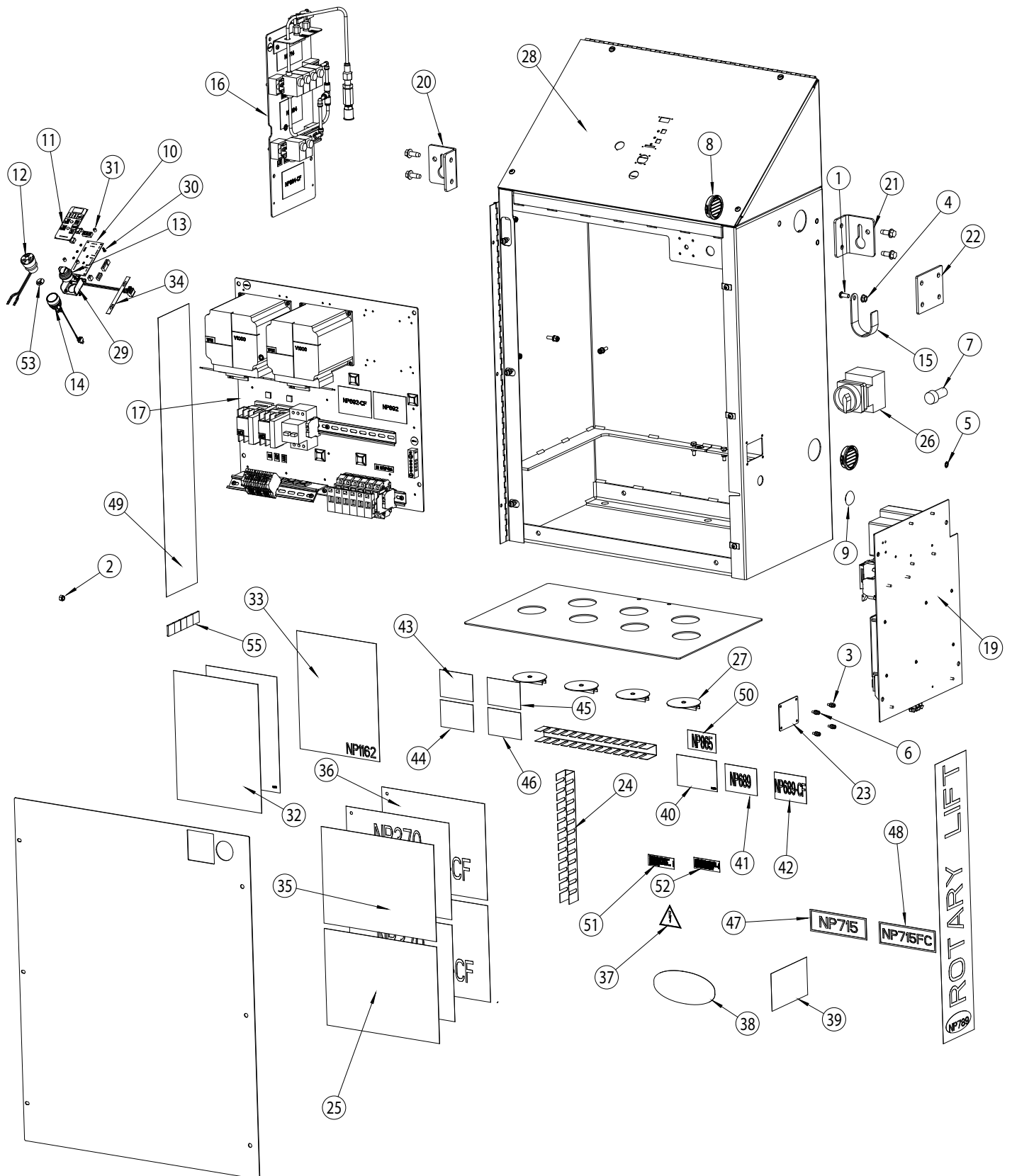
ITEM	QTY	PART NO.	DESCRIPTION
1	8	40022	#8-32NC x 1/2" Lg. SLOTTED PHMS, PLTD
2	9	40036	#10-32NF X 1/2" Lg. SLOTTED PHMS
3	2	AP00971	GROUND LABEL (GRN)
4	2	AP01281	DIODE - SURGE PROTECTION DIODE
5	2	MC110069	RESISTOR ASSM. 230V
6	1	MC120029	POWER BRACKET
7	1	MC120101	VFD / CONTACTOR MAIN PANEL
8	6	MC130003	FUSE TERMINAL BLOCK
9	1	MC130013	CONTACTOR
10	1	MC130014	CONTACTOR
11	9	MC130016	TERMINAL BLOCK
12	2	MC130018	AUX. CONTACTOR
13	1	MC130027	GROUND BAR
14	6	MC130064	FUSE
15	1	MC130069	LABEL, "VFD1" (LOCATED INSIDE OF MC130003)
16	1	MC130070	LABEL, "VFD2"
17	1	MC130071	LABEL, "CCMF"
18	1	MC130078	MANUAL STARTER
19	1	MC130112	LABEL, "AM1"
20	1	MC130178	DIN RAIL 7"
21	1	MC130179	DIN RAIL 9"
22	1	MC130197	DIN RAIL 16"
23	2	MC130198	VARIABLE FREQUENCY DRIVE
24	1	MC130210	LABEL, "MC1"
25	1	MC130211	LABEL, "AMC1"
26	1	MC130214	LABEL, "M1"
27	1	MC130215	LABEL, "M2"
28	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
29	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
30	3	XS130081	GROUND BLOCK
31	6	XS130085	END STOP
32	10	XS130094	WIRE TIE DOWN (LOCATE AS NEEDED)
33	1	XS130119	MARKER CARDS



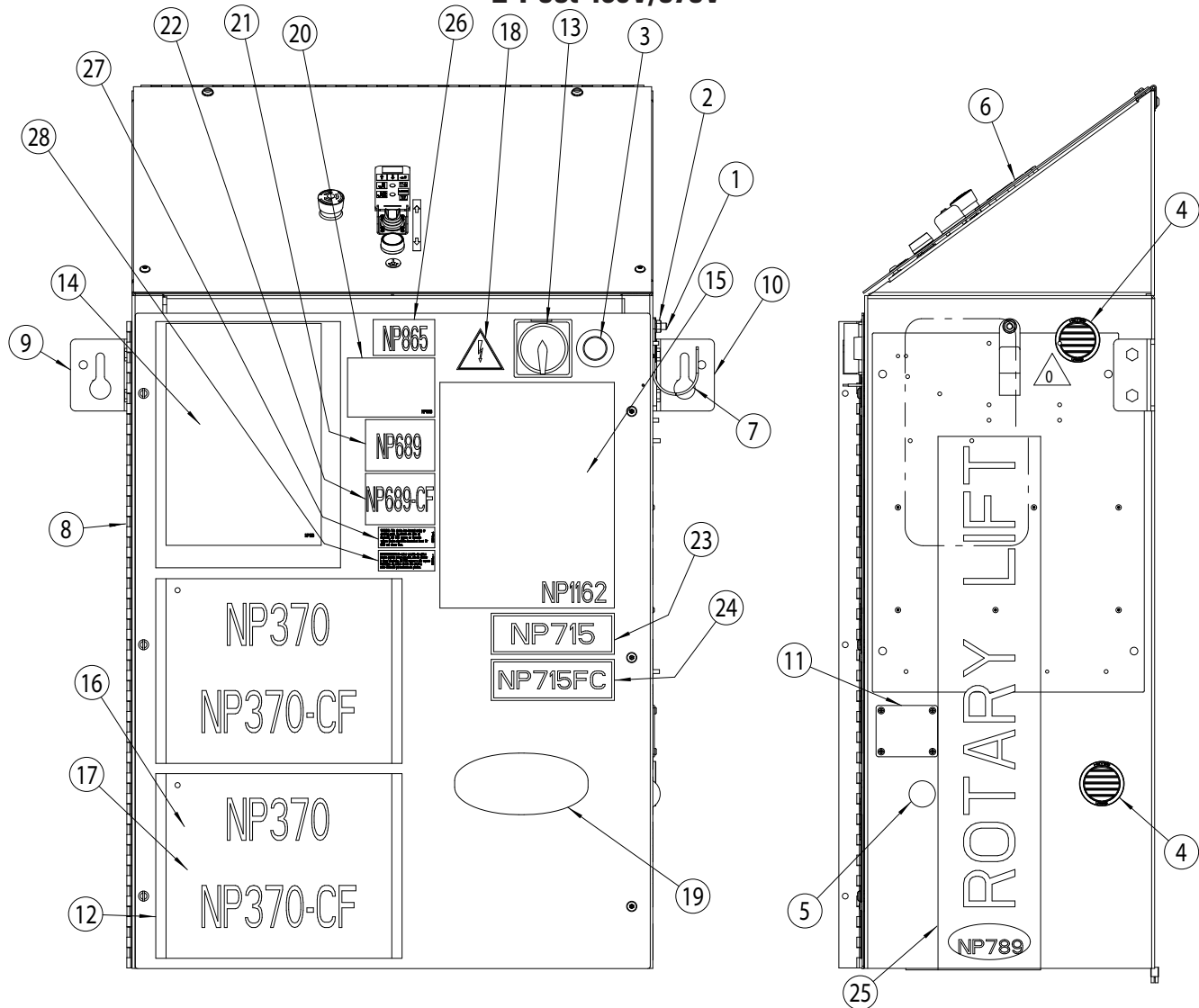
2-Post 230V

ITEM	QTY	PART NO.	DESCRIPTION
1	1	40322	5/16-18NC x 3/4" Lg. HEX SOC BHCS, PLTD (NOT SHOWN)
2	13	40642	1/4"-20NC HEX NYLON INSERT LOCKNUT
3	4	40649	#8-32NC HEX NYLON INSERT LOCKNUT
4	1	40678	5/16"-18NC HEX FLGD WZLOCK NUT, PLTD
5	3	40779	1/4" EXT TOOTH LW
6	4	41457	#8-32NC x 5/8" Lg. PHIL TYPE B PHTS, PLTD
7	1	AC700029	COMPLETE, LIGHT, GREEN
8	2	FA5311	LOUVERED/FILTERED HOLE PLUG 2" DIAMETER
9	1	FA7958-10	7/8" HOLE PLUG
10	1	FA9118	PENDANT CIRCUIT BOARD
11	1	FA9121	PENDANT MEMBRANE TOUCHPAD
12	1	FA9123-9	EMERGENCY STOP ASSY, PENDANT
13	1	FA9123-11	THUMBSTICK ASSY, PENDANT
14	1	FA9123-13	LOWER TO LOCKS WIRING ASSY, PENDANT
15	1	M120262	REEL CORD HANGER
16	1	MC110128	AIR PANEL ASSEMBLY
17	1	MC110129	LOWER BACK PANEL ASM.
18	1	MC110135	WIRE & HARNESS KIT, MOD235 2-POST
19	1	MC110170	SIDE PANEL HDI225ASSY
20	1	MC120093LH	WALL MOUNT LEFT
21	1	MC120093RH	WALL MOUNT RIGHT
22	1	MC120108	CABINET TO CABINET MOUNTING PLATE
23	1	MC120109	CONNECTIVITY PORT COVER
24	2	MC130034	WIRE WAY
25	3	MC130054	POUCH
26	1	MC130167	DISCONNECT SWITCH
27	4	MC130184	2" GALVANIZED HOLE PLUG
28	1	MC130257	CABINET ASSEMBLY, MODx35
29	1	MC130258	THUMB JOSYSTICK GUARD
30	4	MC130259	#4 x 3/8 PHMS THREAD FORMING SCREW, ZINC
31	4	MC130260	PLASTIC STAND-OFF MOD35 CONTROL LESS PENDANT
32	1	NP1113	NAMEPLATE
33	1	NP1162	NAMEPLATE - PREVENTIVE MAINTENANCE
34	1	NP1200	DIRECTIONAL ARROWS NAMEPLATE
35	2	NP370	PLACARD W/BLACK PLASTIC TIE (ALI/WL500w)
36	2	NP370CF	PLACARD (ALI/WL500w) FRENCH CANADIAN
37	1	NP584	HIGH VOLTAGE NAMEPLATE (NOT SHOWN)
38	1	NP607	NAMEPLATE
39	1	NP687	NAMEPLATE
40	1	NP1715	NAMEPLATE
41	1	NP689	NAMEPLATE
42	1	NP689-CF	NAMEPLATE, FRENCH CANADIAN
43	1	NP691	NAMEPLATE
44	1	NP691-CF	NAMEPLATE, FRENCH CANADIAN
45	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
46	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
47	1	NP715	NAMEPLATE
48	1	NP715FC	NAMEPLATE, FRENCH CANADIAN
49	2	NP789	ROTARY DECAL
50	1	NP865	ETL ACCESSORY LABEL
51	1	NP870	PENDANT WARNING LABEL
52	1	NP884	PENDANT WARNING LABEL, FRENCH CANADIAN
53	1	NP980	NAMEPLATE, LOWER TO LOCK
54	1	WD057	CONTROL SYSTEM DRAWING
55	5	XS130094	WIRE TIE DOWN

2-Post 230V

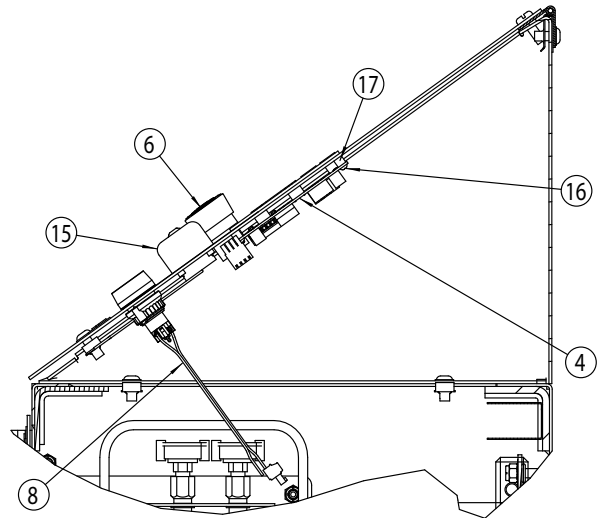
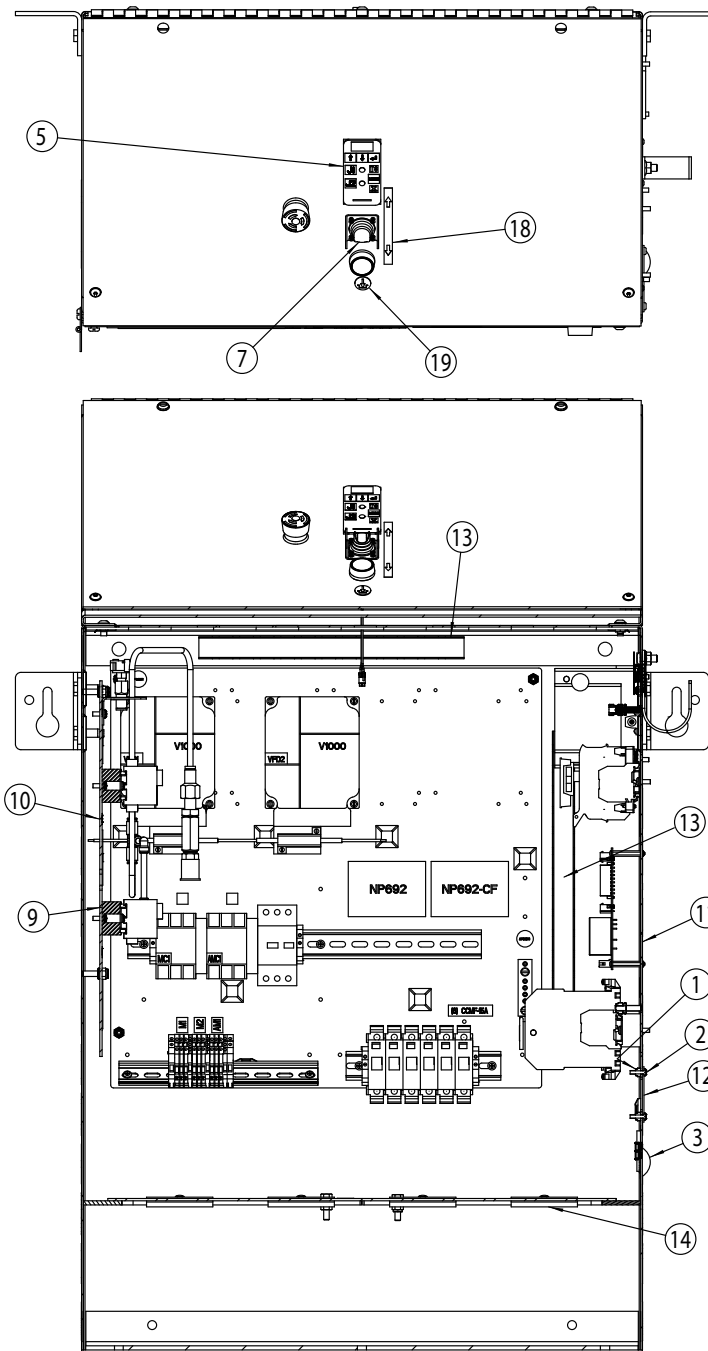


2-Post 460V/575V



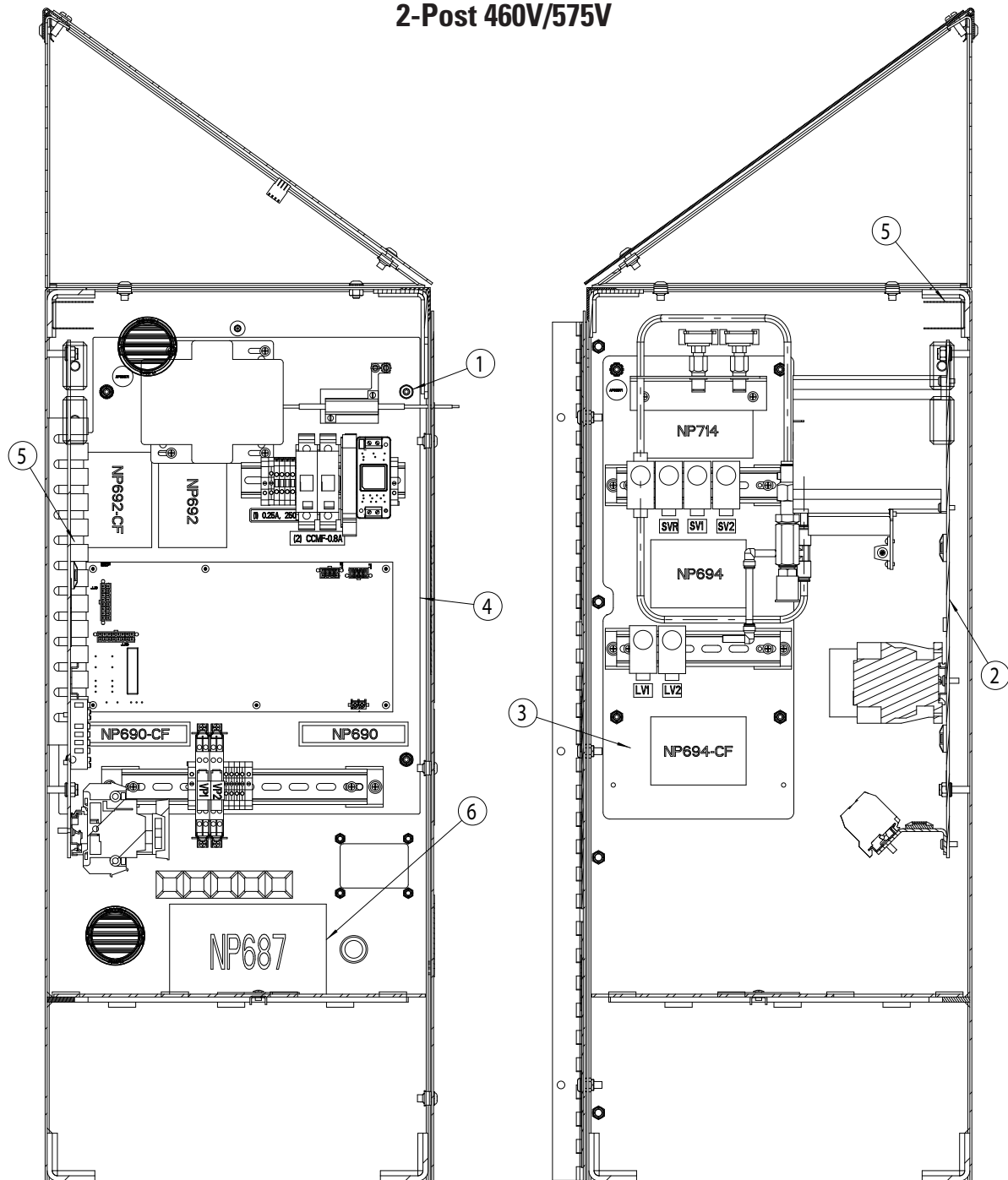
ITEM	QTY	PART NO.	DESCRIPTION
1	1	40322	5/16"-18NC x 3/4" Lg. HEX SOC BHCS, PLTD
2	1	40678	5/16"-18NC HEX FLGD WZLOCK NUT, PLTD
3	1	AC700029	COMPLETE, LIGHT, GREEN
4	2	FA5311	LOUVERED/FILTERED HOLE PLUG 2" DIAMETER
5	1	FA7958-10	7/8" HOLE PLUG
6	1	FA9121	PENDANT MEMBRANE TOUCHPAD
7	1	M120262	REEL CORD HANGER
8	1	MC110171	SIDE PANEL HDI225ASSY
9	1	MC120093LH	WALL MOUNT LEFT
10	1	MC120093RH	WALL MOUNT RIGHT
11	1	MC120109	CONNECTIVITY PORT COVER
12	3	MC130054	POUCH
13	1	MC130167	DISCONNECT SWITCH
14	1	NP1113	NAMEPLATE
15	1	NP1162	NAMEPLATE - PREVENTIVE MAINTENANCE
16	2	NP370	PLACARD W/BLACK PLASTIC TIE (ALI/WL500w)
17	2	NP370CF	PLACARD (ALI/WL500w) FRENCH CANADIAN
18	1	NP584	HIGH VOLTAGE NAMEPLATE
19	1	NP607	NAMEPLATE
20	1	NP1715	NAMEPLATE
21	1	NP689	NAMEPLATE
22	1	NP689-CF	NAMEPLATE, FRENCH CANADIAN
23	1	NP715	NAMEPLATE
24	1	NP715FC	NAMEPLATE, FRENCH CANADIAN
25	2	NP789	ROTARY DECAL
26	1	NP865	ETL ACCESSORY LABEL
27	1	NP870	PENDANT WARNING LABEL
28	1	NP884	PENDANT WARNING LABEL, FRENCH CANADIAN

2-Post 460V/575V

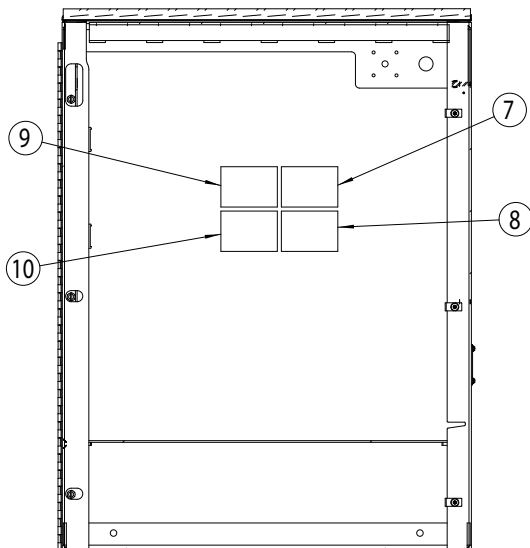


ITEM	QTY	PART NO.	DESCRIPTION
1	4	40649	#8-32NC HEX NYLON INSERT LOCKNUT
2	4	41457	#8-32NC x 5/8" Lg. PHIL TYPE B PHTS, PLTD
3	1	FA7958-10	7/8" HOLE PLUG
4	1	FA9118	PENDANT CIRCUIT BOARD
5	1	FA9121	PENDANT MEMBRANE TOUCHPAD
6	1	FA9123-9	EMERGENCY STOP ASSY, PENDANT
7	1	FA9123-11	THUMBSTICK ASSY, PENDANT
8	1	FA9123-13	LOWER TO LOCKS WIRING ASSY, PENDANT
9	1	MC110126	LOWER BACK PANEL ASM.
10	1	MC110128	AIR PANEL ASSEMBLY
11	1	MC110171	SIDE PANEL HDI225ASSY
12	1	MC120109	CONNECTIVITY PORT COVER
13	2	MC130034	WIRE WAY
14	4	MC130184	2" GALVANIZED HOLE PLUG
15	1	MC130258	THUMB JOYSTICK GUARD
16	4	MC130259	#4 x 3/8 PHMS THREAD FORMING SCREW, ZINC
17	4	MC130260	PLASTIC STAND-OFF MOD35 CONTROL LESS PENDANT
18	1	NP1200	DIRECTIONAL ARROWS NAMEPLATE
19	1	NP980	NAMEPLATE, LOWER TO LOCK

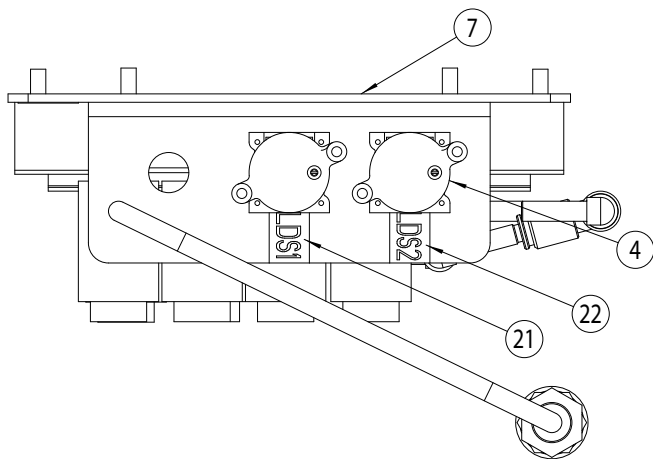
2-Post 460V/575V



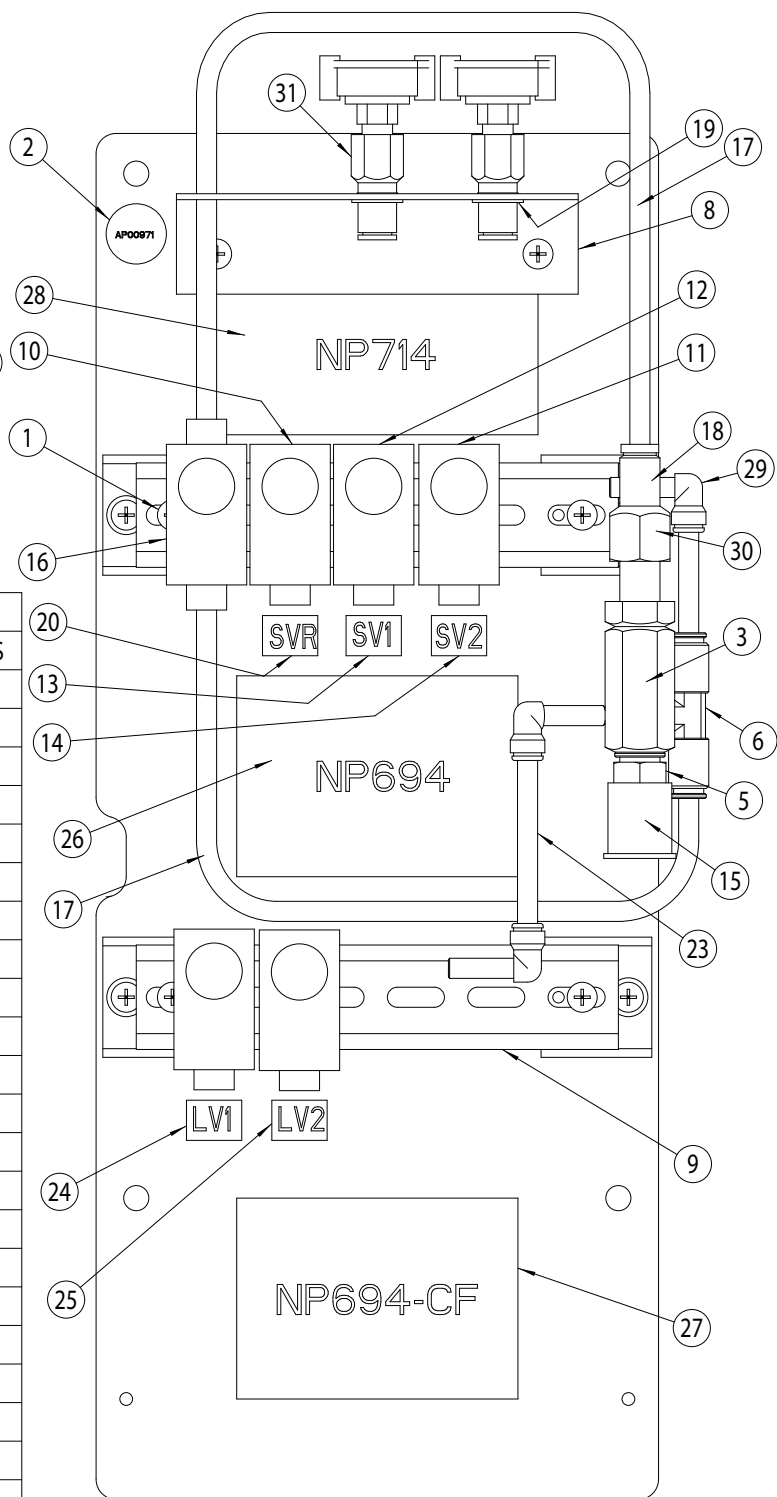
ITEM	QTY	PART NO.	DESCRIPTION
1	13	40642	1/4"-20NC HEX NYLON INSERT LOCKNUT
2	1	MC110126	LOWER BACK PANEL ASM.
3	1	MC110128	AIR PANEL ASSEMBLY
4	1	MC110171	SIDE PANEL HDI225ASSY
5	2	MC130034	WIRE WAY
6	1	NP687	NAMEPLATE
7	1	NP691	NAMEPLATE
8	1	NP691-CF	NAMEPLATE, FRENCH CANADIAN
9	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
10	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN



2-Post 460V/575V

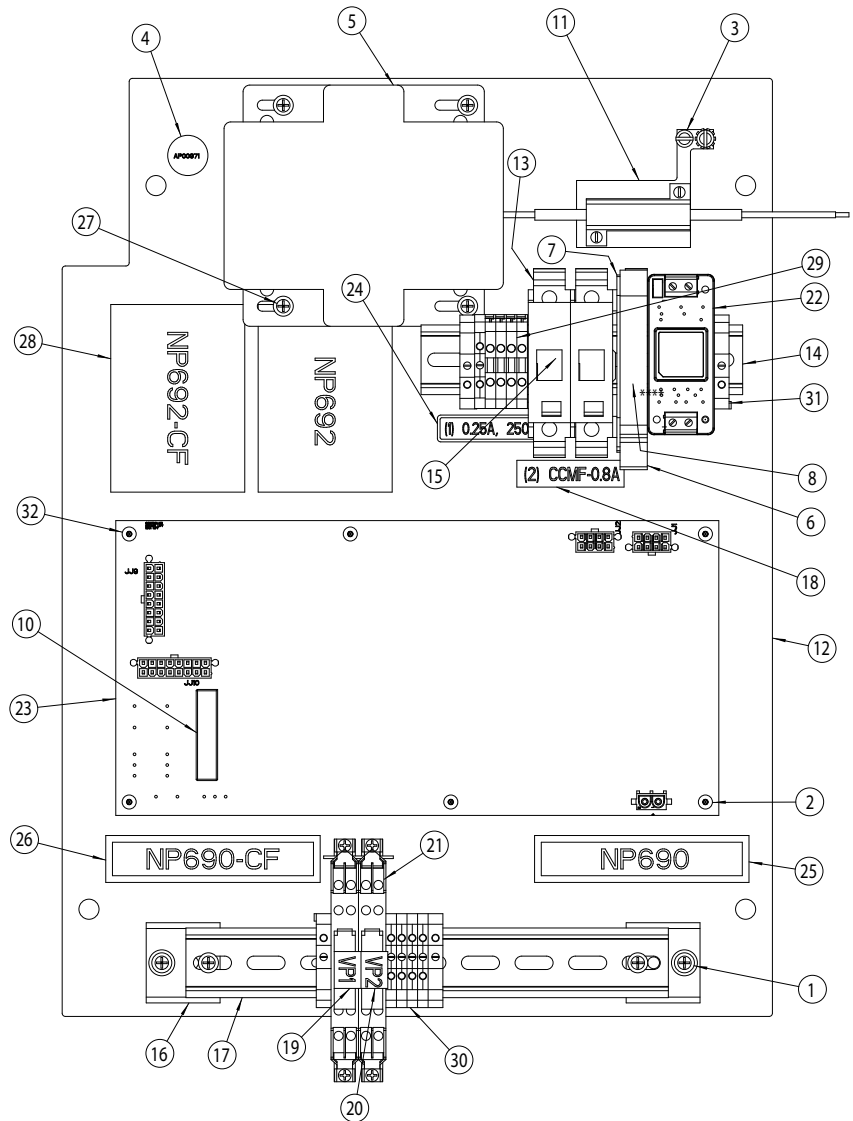


ITEM	QTY	PART NO.	DESCRIPTION
1	10	40036	#10-32NF X 1/2" Lg. SLOTTED PHMS
2	1	AP00971	GROUND LABEL (GRN)
3	1	FA3134-12	FILTER
4	2	FA7186-15	PRESSURE SWITCH
5	1	FC147-8	MALE CONNECTOR
6	1	FC5225-46	UNION TEE
7	1	MC120085	AIR SYSTEM MOUNTING PANEL
8	1	MC120086	SENSOR TERMINATION PANEL
9	2	MC130012	DIN RAIL
10	2	MC130046	AIR VALVE, END
11	2	MC130047	AIR VALVE, INLET
12	1	MC130115	AIR VALVE, SECTION
13	1	MC130116	LABEL, "SV1"
14	1	MC130117	LABEL, "SV2"
15	1	MC130154	3/4" CAPLUG
16	1	MC130156	AIR VALVE
17	2	MC130157	AIR LINE
18	4	MC130169	INSULATING SPACER DIM RAILS
19	2	MC130183	SPEED NUT PUSH ON TYPE
20	1	MC130205	LABEL, "SVR"
21	1	MC130206	LABEL, "LDS1"
22	1	MC130207	LABEL, "LDS2"
23	2	MC130232	NYLON TUBING
24	1	NP1139	LABEL, "LV1"
25	1	NP1140	LABEL, "LV2"
26	1	NP694	NAMEPLATE
27	1	NP694CF	NAMEPLATE, FRENCH CANADIAN
28	1	NP714	NAMEPLATE
29	3	P553-10	ELBOW
30	1	T140081	FEMALE CONNECTOR
31	2	T140151	FEMALE CONNECTOR



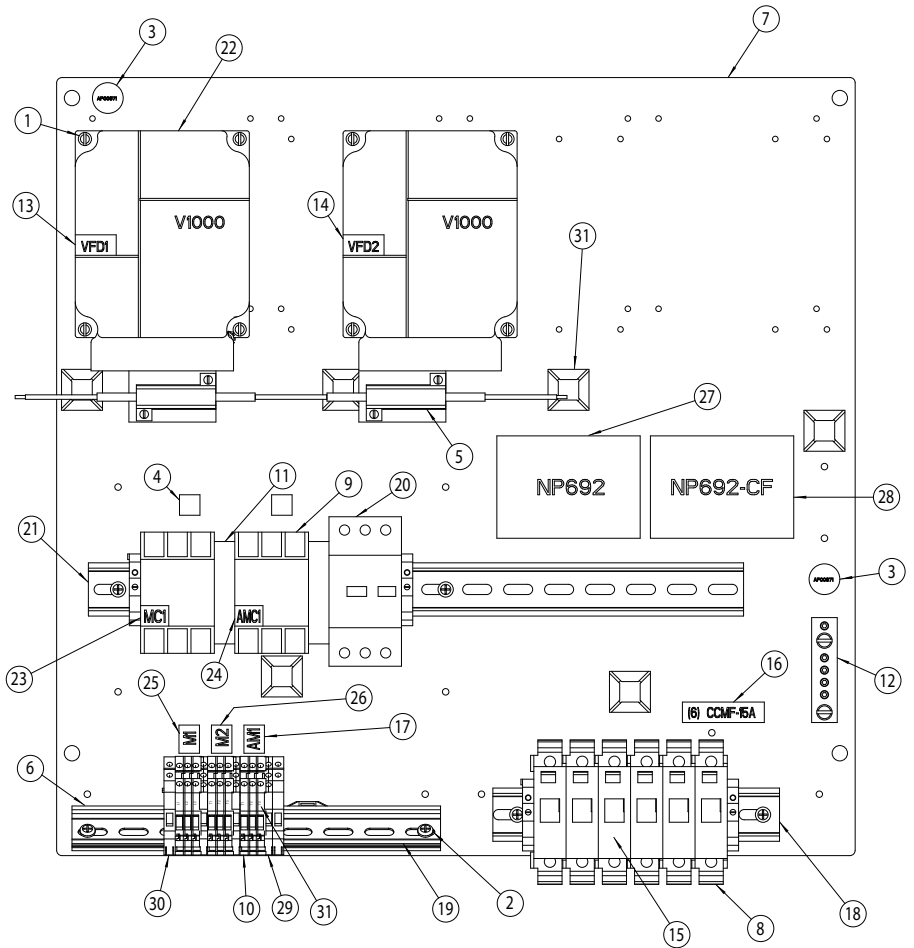
2-Post 460V/575V

ITEM	QTY	PART NO.	DESCRIPTION
1	10	40036	#10-32NF X 1/2" Lg. SLOTTED PHMS
2	12	40177	#6-32NC x 1/4" Lg. BHCS, GRD 2
3	1	41428	#8-32NC x 1/4" Lg. SLOTTED PHMS, PLTD
4	1	AP00971	GROUND LABEL (GRN)
5	1	FA8132	SOLA TRANSFORMER
6	1	FA9138	FUSE TERMINAL BLOCK
7	1	FA9139	END PLATE
8	1	FA9140	FUSE, 0.25A
9	1	FA9141	ZENER DIODE WIRE
10	1	FA9142	RELAY MODULE
11	1	MC110069	RESISTOR ASSM. 230V
12	1	MC120100	PCB MOUNTING PLATE
13	2	MC130003	FUSE TERMINAL BLOCK
14	1	MC130012	DIN RAIL
15	2	MC130163	FUSE, 0.8A
16	2	MC130169	INSULATING SPACER DIM RAILS
17	1	MC130179	DIN RAIL 9" (LOCATED INSIDE OF MC130003)
18	1	MC130188	LABEL, "CCMF"
19	1	MC130200	LABEL, "VP1"
20	1	MC130201	LABEL, "VP2"
21	2	MC130255	ZENER DIODE SAFETY BARRIER
22	1	MC130277	POWER SUPPLY 3.3V
23	1	MC130278	MAXNC CONTROL BD 2P HDI (NOT SHOWN)
24	1	NP1159	LABEL, "(1) .25A, 250V" (LOCATED INSIDE OF FA9138)
25	1	NP690	NAMEPLATE
26	1	NP690-CF	NAMEPLATE, FRENCH CANADIAN
27	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
28	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
29	4	XS130080	TERMINAL BLOCK
30	5	XS130081	GROUND BLOCK
31	4	XS130085	END STOP
32	6	XS130097	FEMALE THD STAND OFF #6-32 x 1-1/4 Lg. MMC #91780A760
33	1	XS130119	MARKER CARDS



2-Post 460V/575V

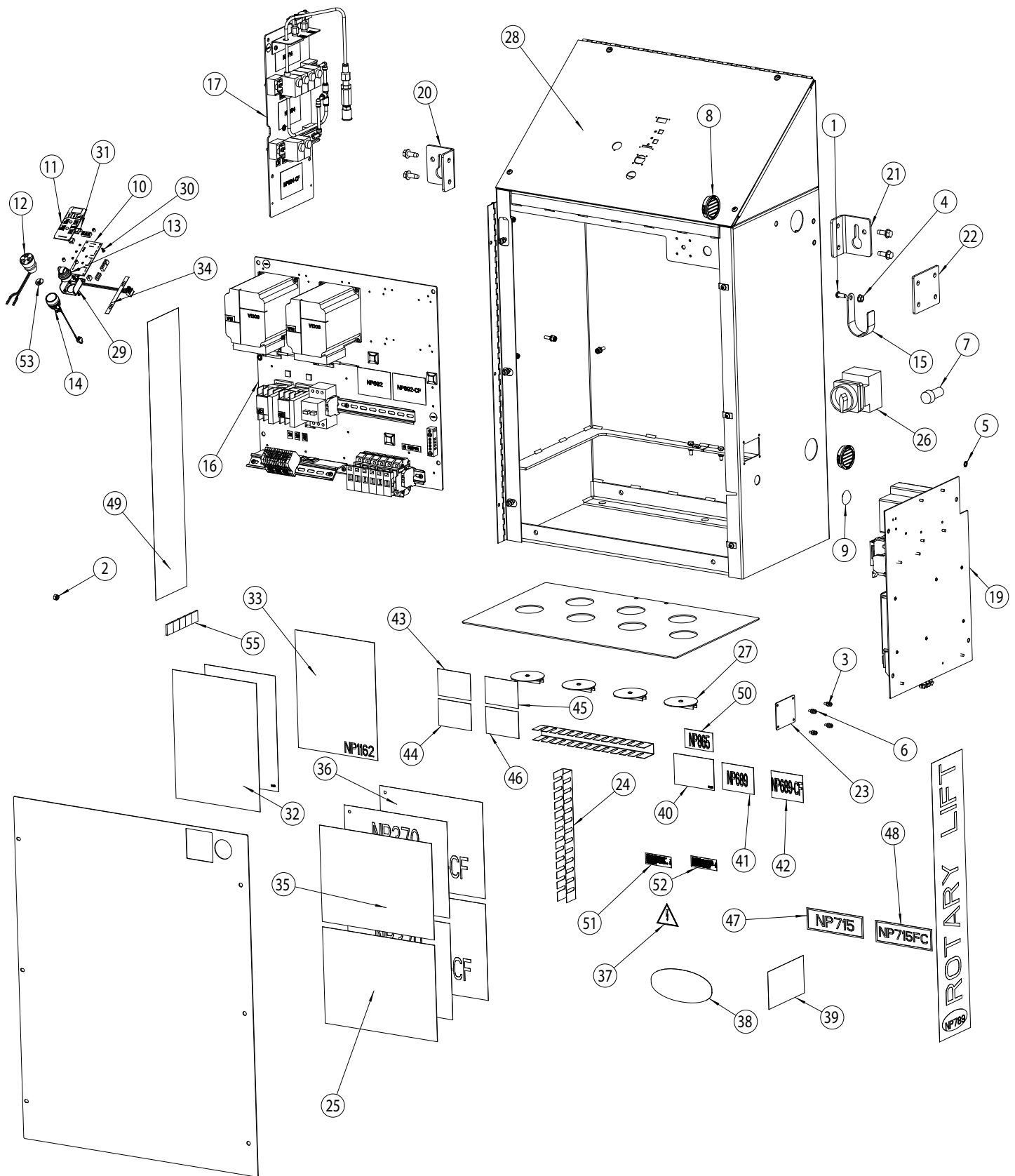
ITEM	QTY	PART NO.	DESCRIPTION
1	8	40022	#8-32NC x 1/2" Lg. SLOTTED PHMS, PLTD
2	9	40036	#10-32NF X 1/2" Lg. SLOTTED PHMS
3	2	AP00971	GROUND LABEL (GRN)
4	2	AP01281	DIODE - SURGE PROTECTION DIODE
5	2	MC110070	RESISTOR ASSM 460V
6	1	MC120029	POWER BRACKET
7	1	MC120101	VFD / CONTACTOR MAIN PANEL
8	6	MC130003	FUSE TERMINAL BLOCK
9	2	MC130014	CONTACTOR
10	9	MC130016	TERMINAL BLOCK
11	2	MC130018	AUX. CONTACTOR
12	1	MC130027	GROUND BAR
13	1	MC130069	LABEL, "VFD1"
14	1	MC130070	LABEL, "VFD2"
15	6	MC130077	FUSE </td
16	1	MC130090	LABEL, "CCMF-15A" (LOCATED INSIDE OF MC130003)
17	1	MC130112	LABEL, "AM1"
18	1	MC130178	DIN RAIL 7"
19	1	MC130179	DIN RAIL 9"
20	1	MC130196	MANUAL STARTER
21	1	MC130197	DIN RAIL 16"
22	2	MC130199	VARIABLE FREQUENCY DRIVE
23	1	MC130210	LABEL, "MC1"
24	1	MC130211	LABEL, "AMC1"
25	1	MC130214	LABEL, "M1"
26	1	MC130215	LABEL, "M2"
27	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
28	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
29	3	XS130081	GROUND BLOCK
30	6	XS130085	END STOP
31	9	XS130094	WIRE TIE DOWN (LOCATE AS NEEDED)
32	1	XS130119	MARKER CARDS



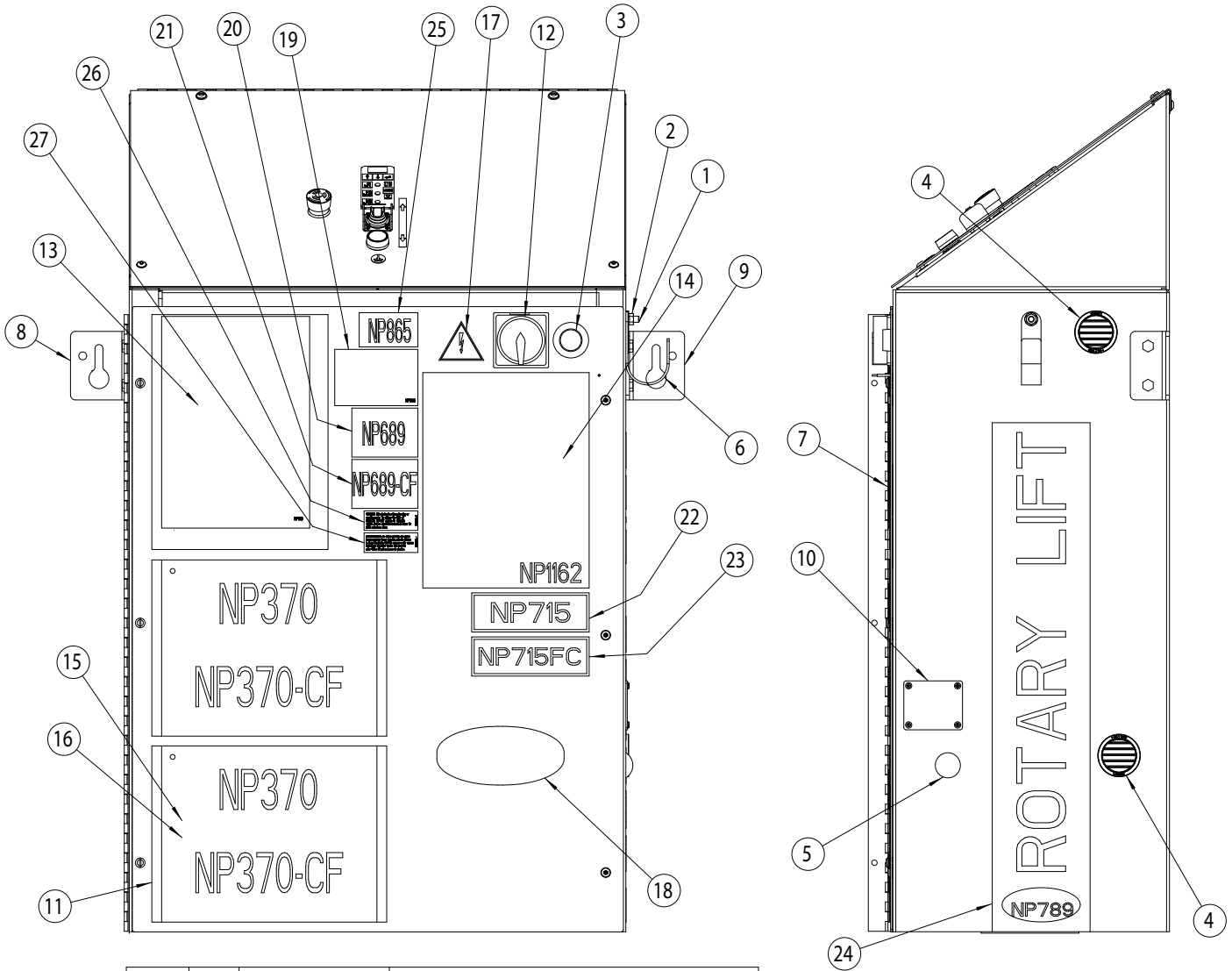
2-Post 460V/575V

ITEM	QTY	PART NO.	DESCRIPTION
1	1	40322	5/16-18NC x 3/4" Lg. HEX SOC BHCS, PLTD (NOT SHOWN)
2	13	40642	1/4"-20NC HEX NYLON INSERT LOCKNUT
3	4	40649	#8-32NC HEX NYLON INSERT LOCKNUT
4	1	40678	5/16"-18NC HEX FLGD WZLOCK NUT, PLTD
5	3	40779	1/4" EXT TOOTH LW
6	4	41457	#8-32NC x 5/8" Lg. PHIL TYPE B PHTS, PLTD
7	1	AC700029	COMPLETE, LIGHT, GREEN
8	2	FA5311	LOUVERED/FILTERED HOLE PLUG 2" DIAMETER
9	1	FA7958-10	7/8" HOLE PLUG
10	1	FA9118	PENDANT CIRCUIT BOARD
11	1	FA9121	PENDANT MEMBRANE TOUCHPAD
12	1	FA9123-9	EMERGENCY STOP ASSY, PENDANT
13	1	FA9123-11	THUMBSTICK ASSY, PENDANT
14	1	FA9123-13	LOWER TO LOCKS WIRING ASSY, PENDANT
15	1	M120262	REEL CORD HANGER
16	1	MC110126	LOWER BACK PANEL ASM.
17	1	MC110128	AIR PANEL ASSEMBLY
18	1	MC110135	WIRE & HARNESS KIT, MOD235 2-POST
19	1	MC110171	SIDE PANEL HDI225ASSY
20	1	MC120093LH	WALL MOUNT LEFT
21	1	MC120093RH	WALL MOUNT RIGHT
22	1	MC120108	CABINET TO CABINET MOUNTING PLATE
23	1	MC120109	CONNECTIVITY PORT COVER
24	2	MC130034	WIRE WAY
25	3	MC130054	POUCH
26	1	MC130167	DISCONNECT SWITCH
27	4	MC130184	2" GALVANIZED HOLE PLUG
28	1	MC130257	CABINET ASSEMBLY, MODx35
29	1	MC130258	THUMB JOYSTICK GUARD
30	4	MC130259	#4 x 3/8 PHMS THREAD FORMING SCREW, ZINC
31	4	MC130260	PLASTIC STAND-OFF MOD35 CONTROL LESS PENDANT
32	1	NP1113	NAMEPLATE
33	1	NP1162	NAMEPLATE - PREVENTIVE MAINTENANCE
34	1	NP1200	DIRECTIONAL ARROWS NAMEPLATE
35	2	NP370	PLACARD W/BLACK PLASTIC TIE (ALI/WL500w)
36	2	NP370CF	PLACARD (ALI/WL500w) FRENCH CANADIAN
37	1	NP584	HIGH VOLTAGE NAMEPLATE (NOT SHOWN)
38	1	NP607	NAMEPLATE
39	1	NP687	NAMEPLATE
40	1	NP1715	NAMEPLATE
41	1	NP689	NAMEPLATE
42	1	NP689-CF	NAMEPLATE, FRENCH CANADIAN
43	1	NP691	NAMEPLATE
44	1	NP691-CF	NAMEPLATE, FRENCH CANADIAN
45	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
46	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
47	1	NP715	NAMEPLATE
48	1	NP715FC	NAMEPLATE, FRENCH CANADIAN
49	2	NP789	ROTARY DECAL
50	1	NP865	ETL ACCESSORY LABEL
51	1	NP870	PENDANT WARNING LABEL
52	1	NP884	PENDANT WARNING LABEL, FRENCH CANADIAN
53	1	NP980	NAMEPLATE, LOWER TO LOCK
54	1	WD057	CONTROL SYSTEM DRAWING
55	5	XS130094	WIRE TIE DOWN

2-Post 460V/575V

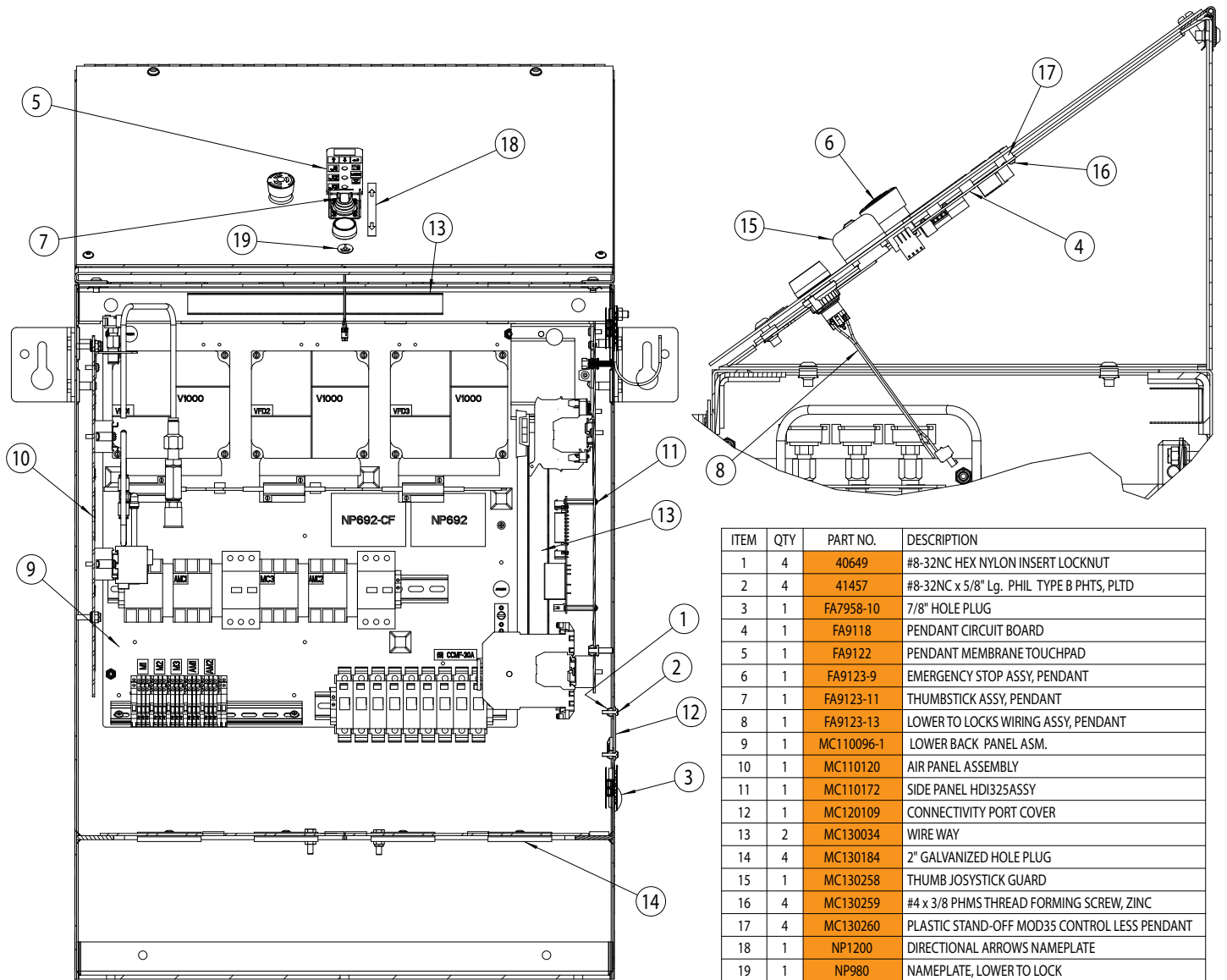


3-Post 230V

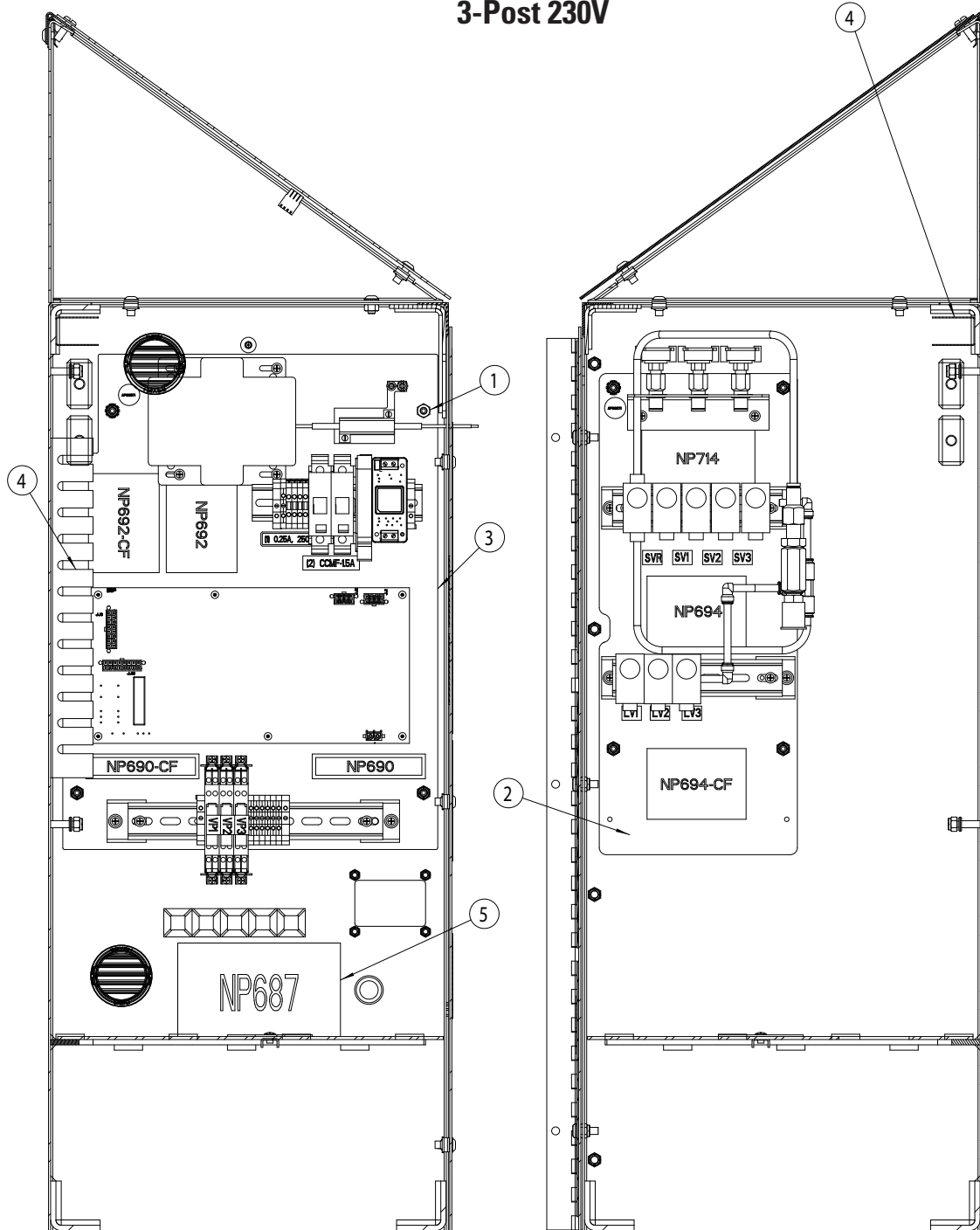


ITEM	QTY	PART NO.	DESCRIPTION
1	1	40322	5/16-18NC x 3/4" Lg. HEX SOC BHCS, PLTD
2	1	40678	5/16"-18NC HEX FLGD WZLOCK NUT, PLTD
3	1	AC700029	COMPLETE, LIGHT, GREEN
4	2	FA5311	LOUVERED/FILTERED HOLE PLUG 2" DIAMETER
5	1	FA7958-10	7/8" HOLE PLUG
6	1	M120262	REEL CORD HANGER
7	1	MC110172	SIDE PANEL HDI325ASSY
8	1	MC120093LH	WALL MOUNT LEFT
9	1	MC120093RH	WALL MOUNT RIGHT
10	1	MC120109	CONNECTIVITY PORT COVER
11	3	MC130054	POUCH
12	1	MC130167	DISCONNECT SWITCH
13	1	NP1113	NAMEPLATE
14	1	NP1162	NAMEPLATE - PREVENTIVE MAINTENANCE
15	2	NP370	PLACARD W/BLACK PLASTIC TIE (ALI/WL500w)
16	2	NP370CF	PLACARD (ALI/WL500w) FRENCH CANADIAN
17	1	NP584	HIGH VOLTAGE NAMEPLATE
18	1	NP607	NAMEPLATE
19	1	NP1715	NAMEPLATE
20	1	NP689	NAMEPLATE
21	1	NP689-CF	NAMEPLATE, FRENCH CANADIAN
22	1	NP715	NAMEPLATE
23	1	NP715FC	NAMEPLATE, FRENCH CANADIAN
24	2	NP789	ROTARY DECAL
25	1	NP865	ETL ACCESSORY LABEL
26	1	NP870	PENDANT WARNING LABEL
27	1	NP884	PENDANT WARNING LABEL, FRENCH CANADIAN

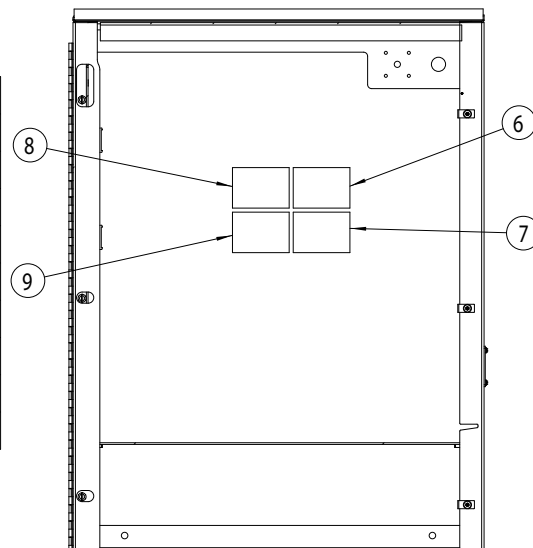
3-Post 230V



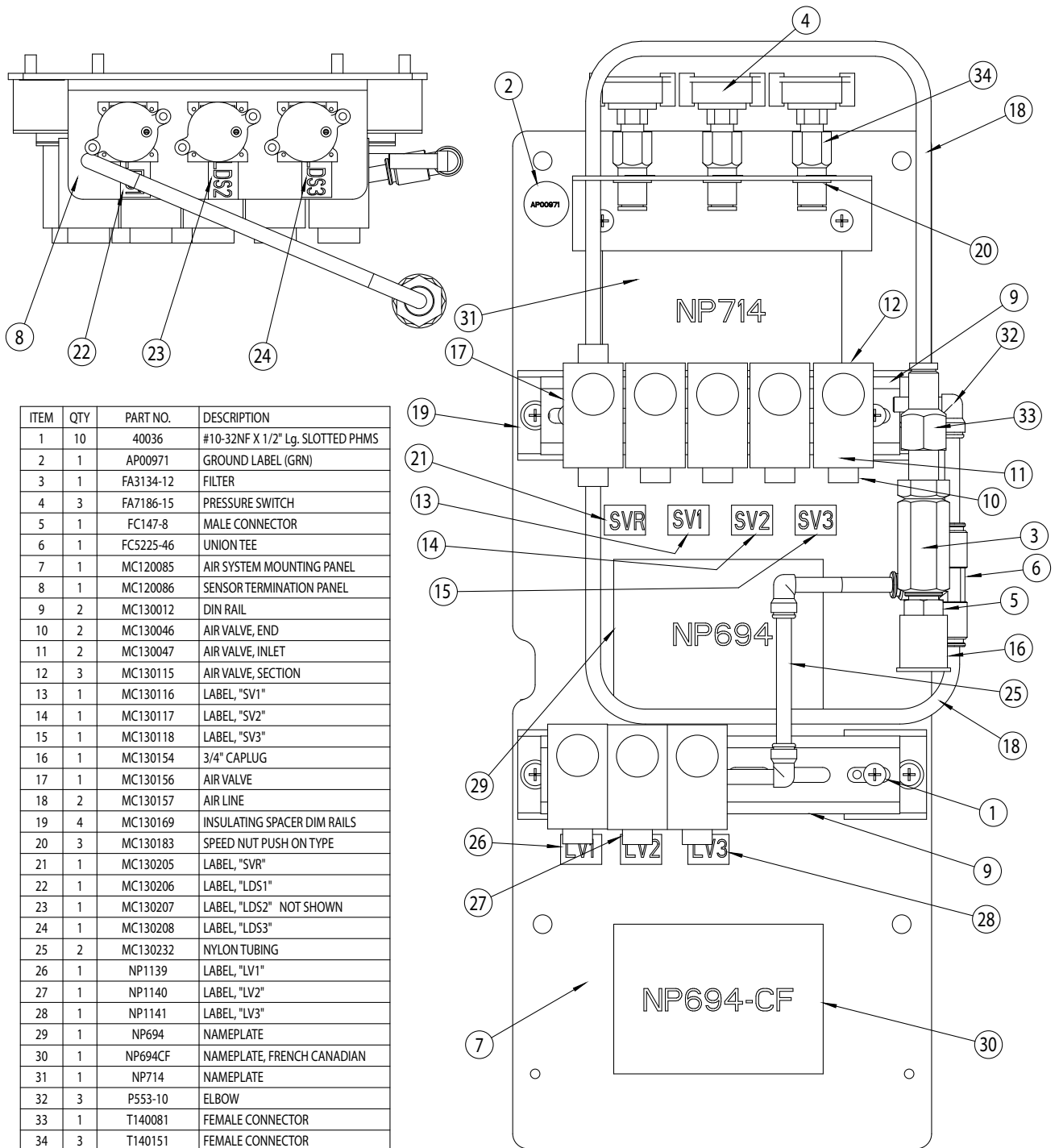
3-Post 230V



ITEM	QTY	PART NO.	DESCRIPTION
1	13	40642	1/4"-20NC HEX NYLON INSERT LOCKNUT
2	1	MC110120	AIR PANEL ASSEMBLY
3	1	MC110172	SIDE PANEL HDI325ASSY
4	2	MC130034	WIRE WAY
5	1	NP687	NAMEPLATE
6	1	NP691	NAMEPLATE
7	1	NP691-CF	NAMEPLATE, FRENCH CANADIAN
8	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
9	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN

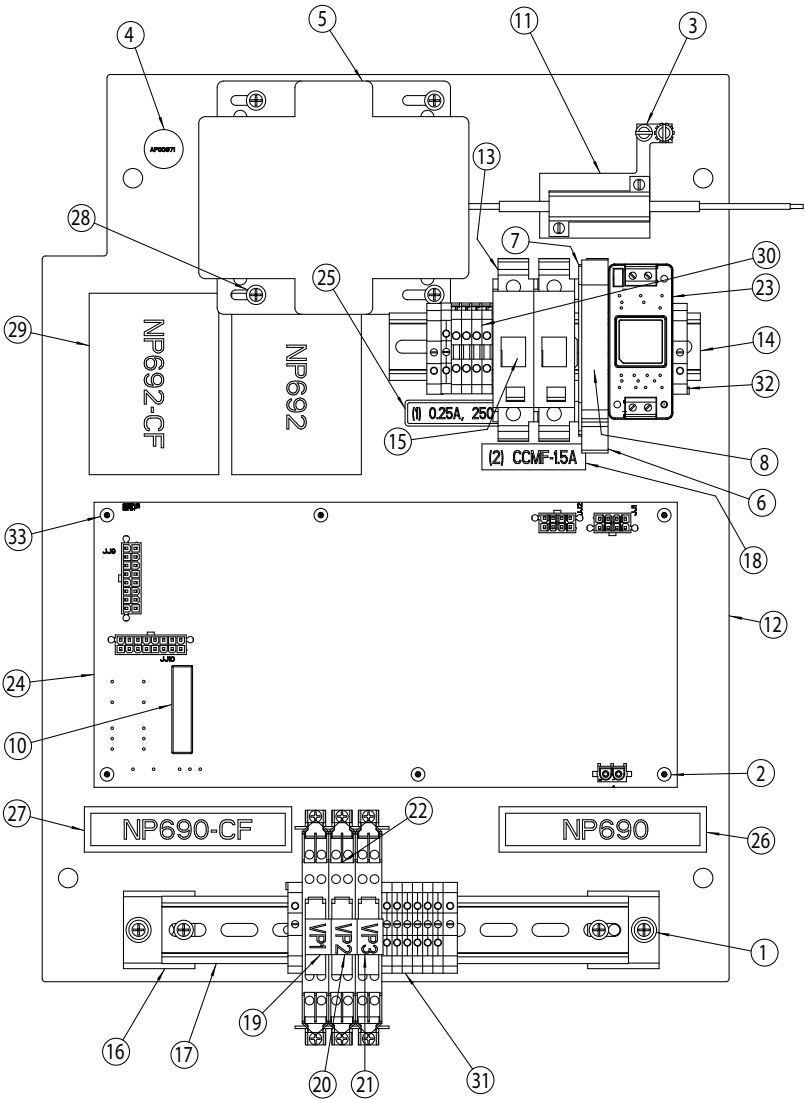


3-Post 230V



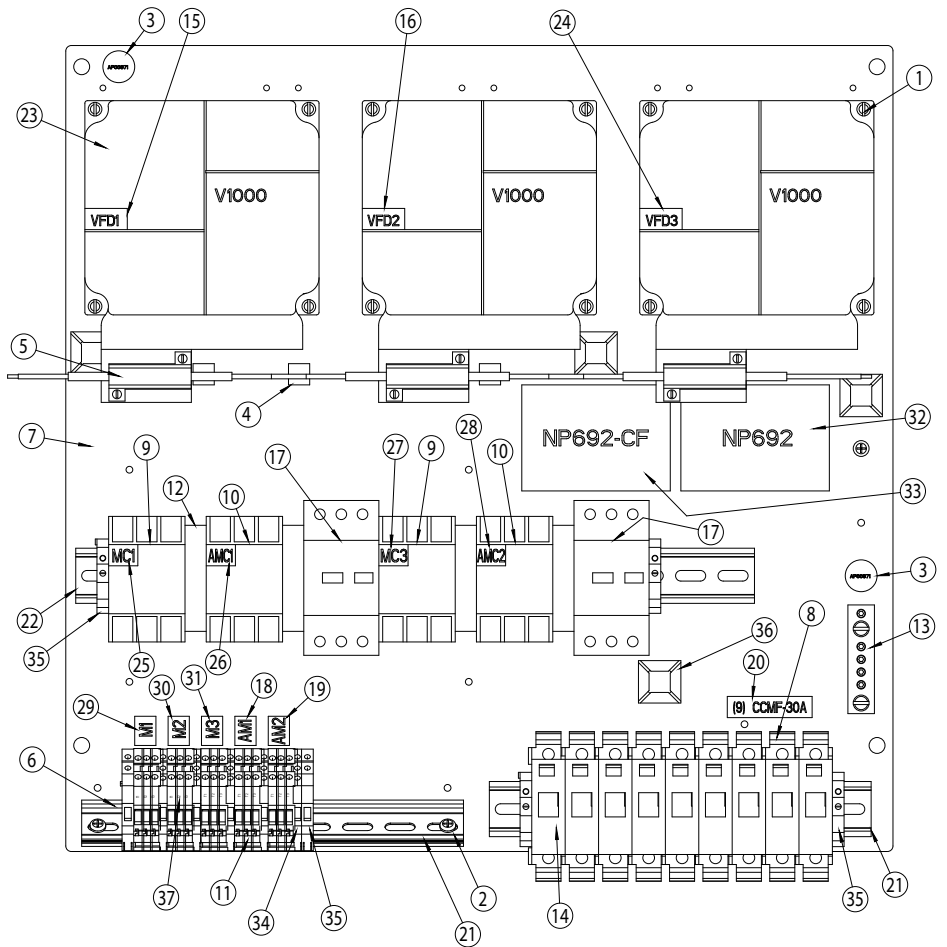
3-Post 230V

ITEM	QTY	PART NO.	DESCRIPTION
1	10	40036	#10-32NF X 1/2" Lg. SLOTTED PHMS
2	12	40177	#6-32NC x 1/4" Lg. BHCS, GRD 2
3	1	41428	#8-32NC x 1/4" Lg. SLOTTED PHMS, PLTD
4	1	AP00971	GROUND LABEL (GRN)
5	1	FA8132	SOLA TRANSFORMER
6	1	FA9138	FUSE TERMINAL BLOCK
7	1	FA9139	END PLATE
8	1	FA9140	FUSE, 0.25A
9	1	FA9141	ZENER DIODE WIRE
10	1	FA9142	RELAY MODULE
11	1	MC110069	RESISTOR ASSM. 230V
12	1	MC120100	PCB MOUNTING PLATE
13	2	MC130003	FUSE TERMINAL BLOCK
14	1	MC130012	DIN RAIL
15	2	MC130164	FUSE, 1.5A
16	2	MC130169	INSULATING SPACER DIM RAILS
17	1	MC130179	DIN RAIL 9"
18	1	MC130185	LABEL, "CCMF" (LOCATED INSIDE OF MC130003)
19	1	MC130200	LABEL, "VP1"
20	1	MC130201	LABEL, "VP2"
21	1	MC130202	LABEL, "VP3"
22	3	MC130255	ZENER DIODE SAFETY BARRIER
23	1	MC130277	POWER SUPPLY 3.3V
24	1	MC130279	MAXNC CONTROL BD 3P HDI (NOT SHOWN)
25	1	NP1159	LABEL, "(1) .25A, 250V" (LOCATED INSIDE OF FA9138)
26	1	NP690	NAMEPLATE
27	1	NP690-CF	NAMEPLATE, FRENCH CANADIAN
28	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
29	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
30	4	XS130080	TERMINAL BLOCK
31	7	XS130081	GROUND BLOCK
32	4	XS130085	END STOP
33	6	XS130097	FEMALE THD STAND OFF #6-32 x 1-1/4 Lg. MMC #91780A760
34	1	XS130119	MARKER CARDS



3-Post 230V

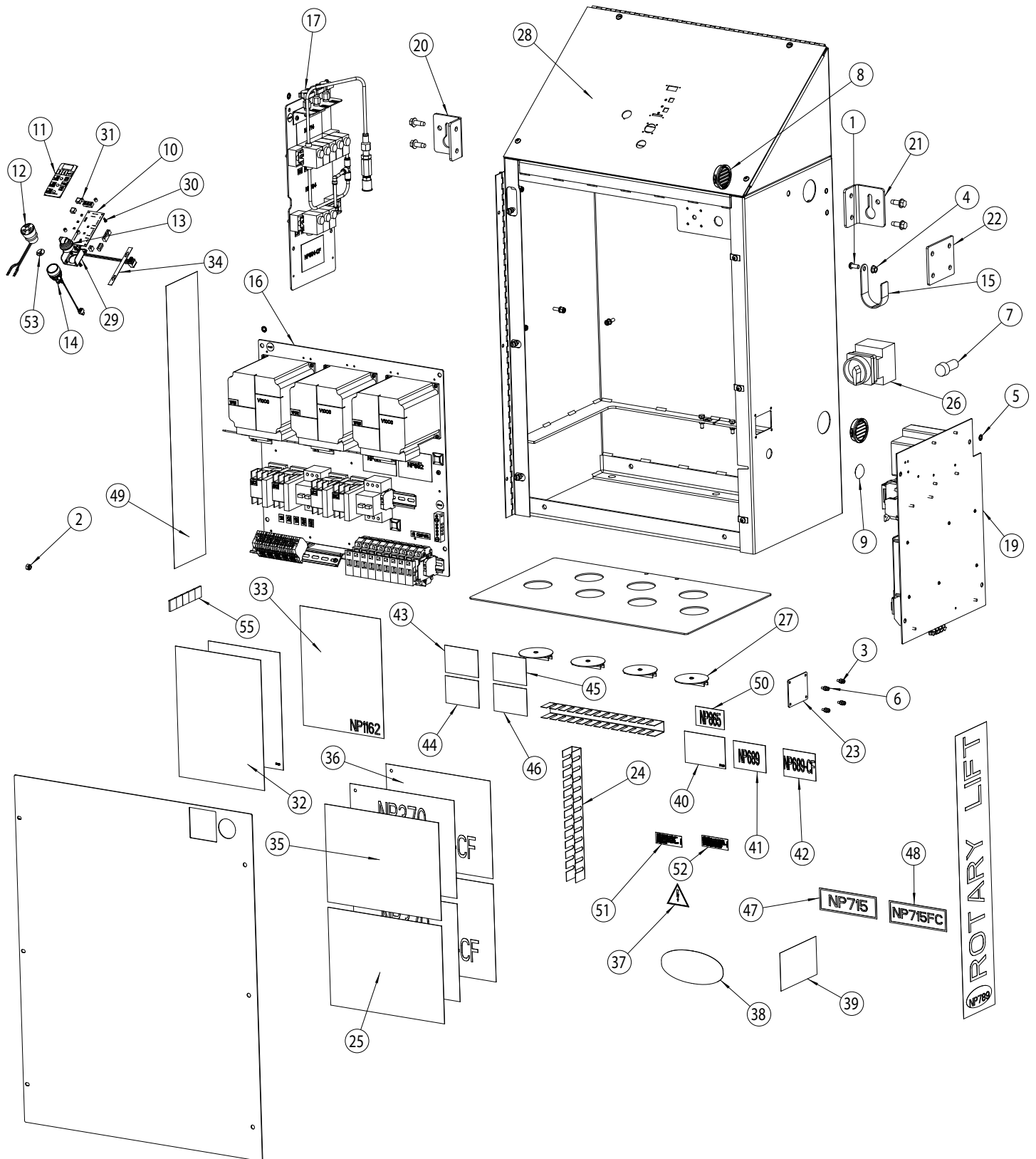
ITEM	QTY	PART NO.	DESCRIPTION
1	12	40022	#8-32NC x 1/2" Lg. SLOTTED PHMS, PLTD
2	9	40036	#10-32NF x 1/2" Lg. SLOTTED PHMS
3	2	AP00971	GROUND LABEL (GRN)
4	4	AP01281	DIODE - SURGE PROTECTION DIODE
5	3	MC110069	RESISTOR ASSM. 230V
6	1	MC120029	POWER BRACKET
7	1	MC120101	VFD / CONTACTOR MAIN PANEL
8	9	MC130003	FUSE TERMINAL BLOCK
9	2	MC130013	CONTACTOR
10	2	MC130014	CONTACTOR
11	15	MC130016	TERMINAL BLOCK
12	4	MC130018	AUX. CONTACTOR
13	1	MC130027	GROUND BAR
14	9	MC130064	FUSE
15	1	MC130069	LABEL, "VFD1" (NOT SHOWN, LOCATED INSIDE OF MC130003)
16	1	MC130070	LABEL, "VFD2"
17	2	MC130078	MANUAL STARTER
18	1	MC130112	LABEL, "AM1"
19	1	MC130113	LABEL, "AM2"
20	1	MC130114	LABEL, "CCMF"
21	2	MC130179	DIN RAIL 9"
22	1	MC130197	DIN RAIL 16"
23	3	MC130198	VARIABLE FREQUENCY DRIVE
24	1	MC130209	LABEL, "VFD3"
25	1	MC130210	LABEL, "MC1"
26	1	MC130211	LABEL, "AMC1"
27	1	MC130212	LABEL, "MC3"
28	1	MC130213	LABEL, "AMC2"
29	1	MC130214	LABEL, "M1"
30	1	MC130215	LABEL, "M2"
31	1	MC130216	LABEL, "M3"
32	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
33	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
34	5	XS130081	GROUND BLOCK
35	6	XS130085	END STOP
36	7	XS130094	WIRE TIE DOWN
37	1	XS130119	MARKER CARDS



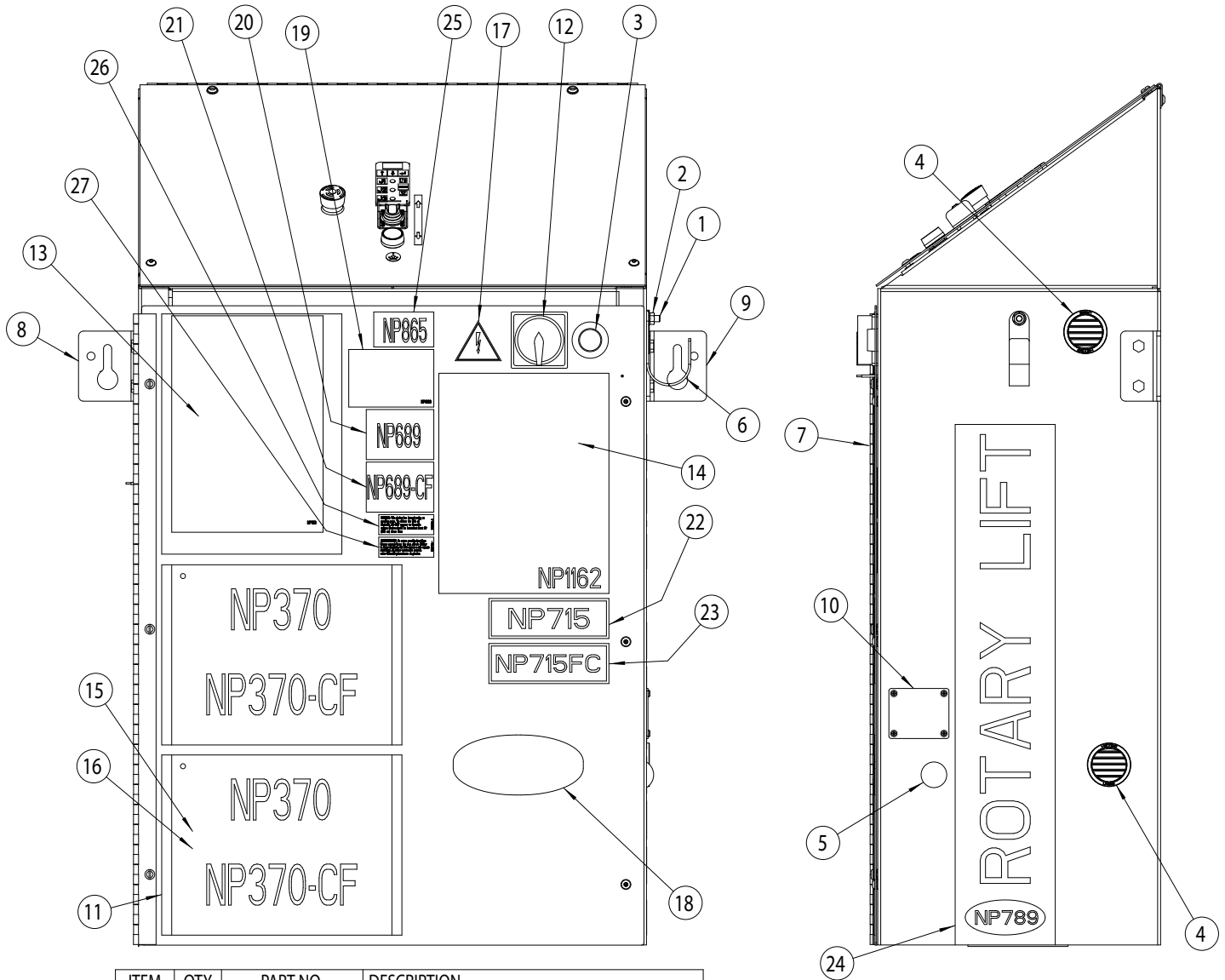
3-Post 230V

ITEM	QTY	PART NO.	DESCRIPTION
1	1	40322	5/16-18NC x 3/4" Lg. HEX SOC BHCS, PLTD (NOT SHOWN)
2	13	40642	1/4"-20NC HEX NYLON INSERT LOCKNUT
3	4	40649	#8-32NC HEX NYLON INSERT LOCKNUT
4	1	40678	5/16"-18NC HEX FLGD WZLOCK NUT, PLTD
5	3	40779	1/4" EXT TOOTH LW
6	4	41457	#8-32NC x 5/8" Lg. PHIL TYPE B PHTS, PLTD
7	1	AC700029	COMPLETE, LIGHT, GREEN
8	2	FA5311	LOUVERED/FILTERED HOLE PLUG 2" DIAMETER
9	1	FA7958-10	7/8" HOLE PLUG
10	1	FA9118	PENDANT CIRCUIT BOARD
11	1	FA9122	PENDANT MEMBRANE TOUCHPAD
12	1	FA9123-9	EMERGENCY STOP ASSY, PENDANT
13	1	FA9123-11	THUMBSTICK ASSY, PENDANT
14	1	FA9123-13	LOWER TO LOCKS WIRING ASSY, PENDANT
15	1	M120262	REEL CORD HANGER
16	1	MC110096-1	LOWER BACK PANEL ASM.
17	1	MC110120	AIR PANEL ASSEMBLY
18	1	MC110134	WIRE & HARNESS KIT, MOD335 3-POST
19	1	MC110172	SIDE PANEL HDI325ASSY
20	1	MC120093LH	WALL MOUNT LEFT
21	1	MC120093RH	WALL MOUNT RIGHT
22	1	MC120108	CABINET TO CABINET MOUNTING PLATE
23	1	MC120109	CONNECTIVITY PORT COVER
24	2	MC130034	WIRE WAY
25	3	MC130054	POUCH
26	1	MC130167	DISCONNECT SWITCH
27	4	MC130184	2" GALVANIZED HOLE PLUG
28	1	MC130257	CABINET ASSEMBLY, MODx35
29	1	MC130258	THUMB JOYSTICK GUARD
30	4	MC130259	#4 x 3/8 PHMS THREAD FORMING SCREW, ZINC
31	4	MC130260	PLASTIC STAND-OFF MOD35 CONTROL LESS PENDANT
32	1	NP1113	NAMEPLATE
33	1	NP1162	NAMEPLATE - PREVENTIVE MAINTENANCE
34	1	NP1200	DIRECTIONAL ARROWS NAMEPLATE
35	2	NP370	PLACARD W/BLACK PLASTIC TIE (ALI/WL500w)
36	2	NP370CF	PLACARD (ALI/WL500w) FRENCH CANADIAN
37	1	NP584	HIGH VOLTAGE NAMEPLATE (NOT SHOWN)
38	1	NP607	NAMEPLATE
39	1	NP687	NAMEPLATE
40	1	NP1715	NAMEPLATE
41	1	NP689	NAMEPLATE
42	1	NP689-CF	NAMEPLATE, FRENCH CANADIAN
43	1	NP691	NAMEPLATE
44	1	NP691-CF	NAMEPLATE, FRENCH CANADIAN
45	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
46	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
47	1	NP715	NAMEPLATE
48	1	NP715FC	NAMEPLATE, FRENCH CANADIAN
49	2	NP789	ROTARY DECAL
50	1	NP865	ETL ACCESSORY LABEL
51	1	NP870	PENDANT WARNING LABEL
52	1	NP884	PENDANT WARNING LABEL, FRENCH CANADIAN
53	1	NP980	NAMEPLATE, LOWER TO LOCK
54	1	WD057	CONTROL SYSTEM DRAWING
55	5	XS130094	WIRE TIE DOWN

3-Post 230V

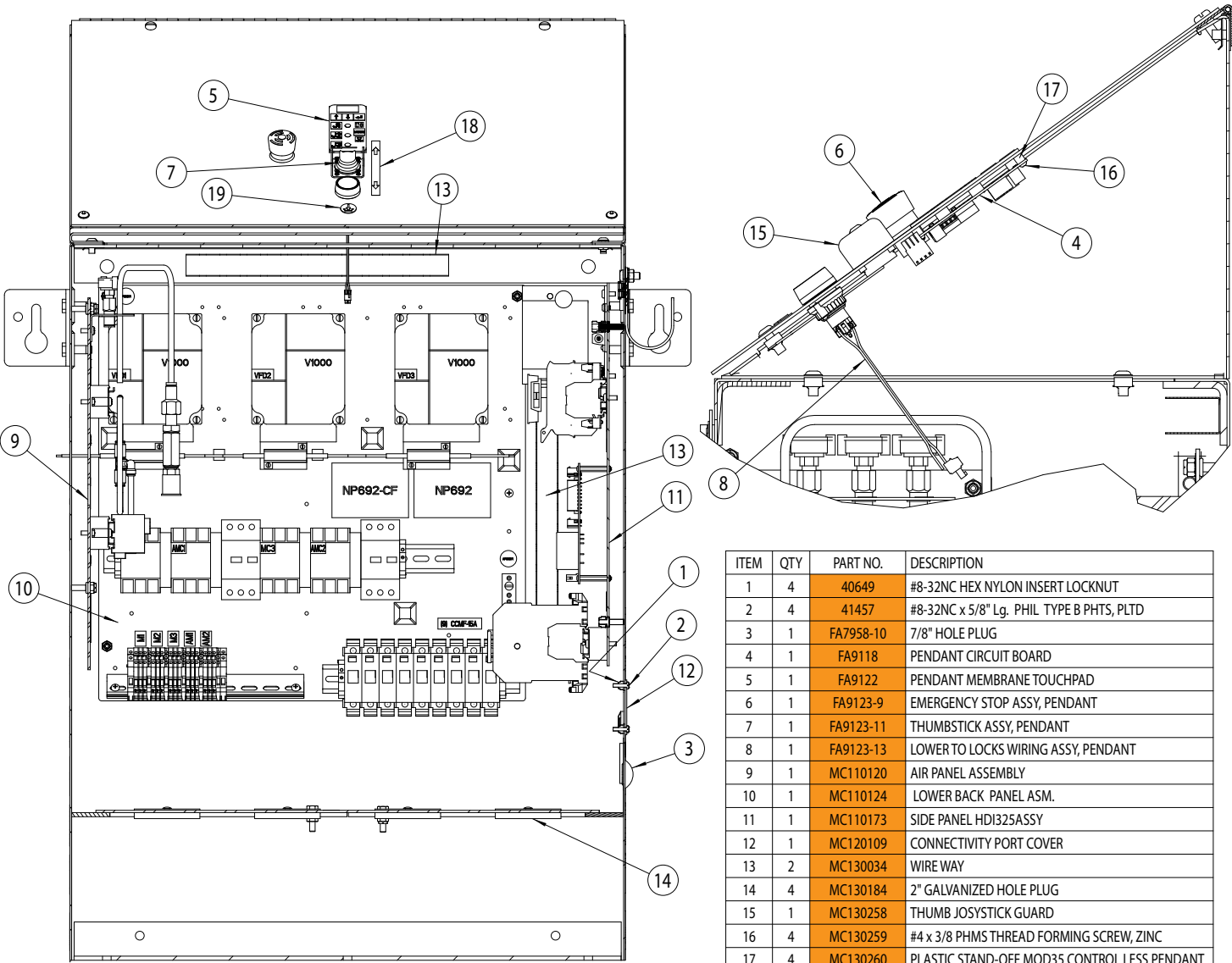


3-Post 460V/575V



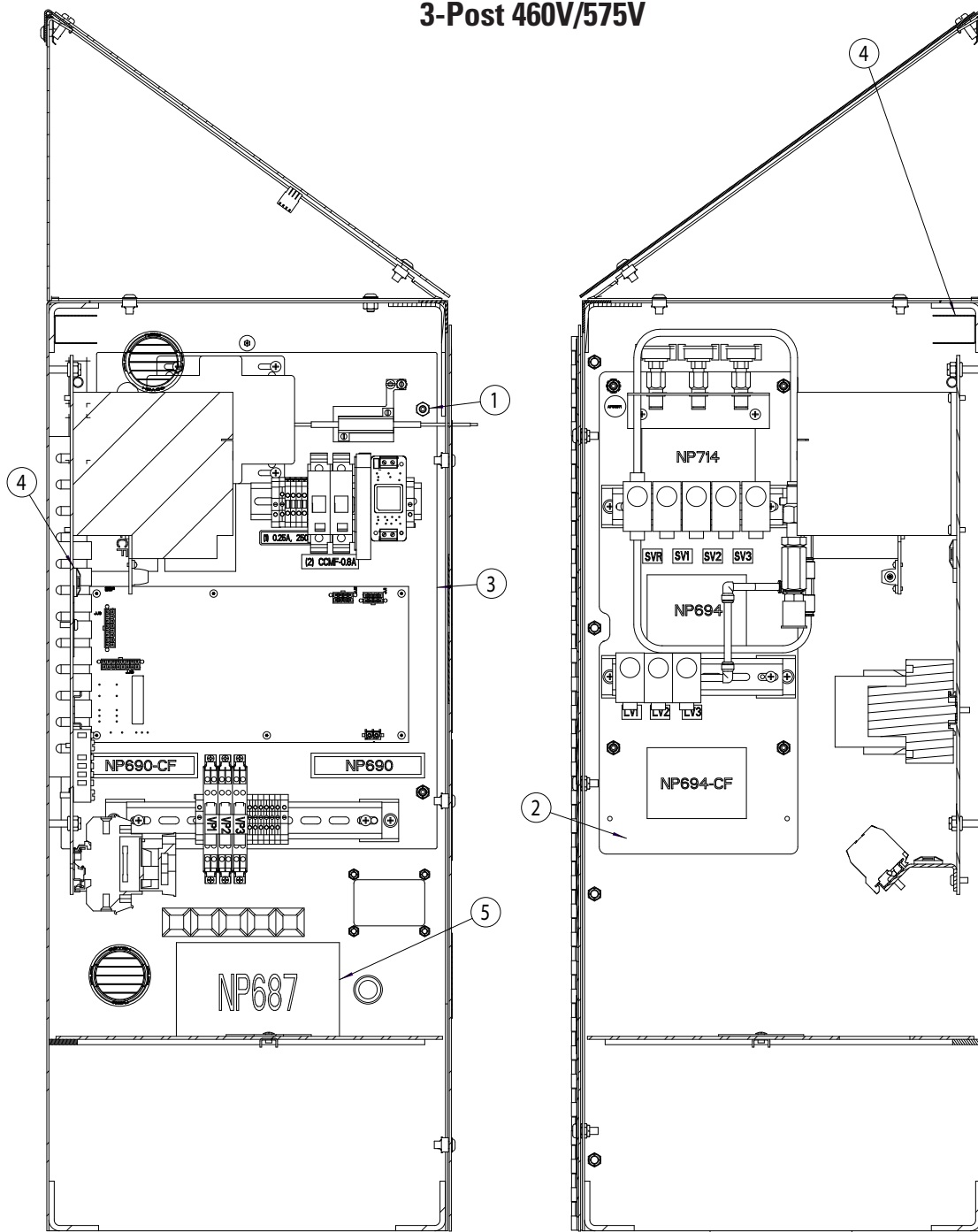
ITEM	QTY	PART NO.	DESCRIPTION
1	1	40322	5/16"-18NC x 3/4" Lg. HEX SOC BHCS, PLTD
2	1	40678	5/16"-18NC HEX FLGD WZLOCK NUT, PLTD
3	1	AC700029	COMPLETE, LIGHT, GREEN
4	2	FA5311	LOUVERED/FILTERED HOLE PLUG 2" DIAMETER
5	1	FA7958-10	7/8" HOLE PLUG
6	1	M120262	REEL CORD HANGER
7	1	MC110173	SIDE PANEL HDI325ASSY
8	1	MC120093LH	WALL MOUNT LEFT
9	1	MC120093RH	WALL MOUNT RIGHT
10	1	MC120109	CONNECTIVITY PORT COVER
11	3	MC130054	POUCH
12	1	MC130167	DISCONNECT SWITCH
13	1	NP1113	NAMEPLATE
14	1	NP1162	NAMEPLATE - PREVENTIVE MAINTENANCE
15	2	NP370	PLACARD W/BLACK PLASTIC TIE (ALI/WL500w)
16	2	NP370CF	PLACARD (ALI/WL500w) FRENCH CANADIAN
17	1	NP584	HIGH VOLTAGE NAMEPLATE
18	1	NP607	NAMEPLATE
19	1	NP1715	NAMEPLATE
20	1	NP689	NAMEPLATE
21	1	NP689-CF	NAMEPLATE, FRENCH CANADIAN
22	1	NP715	NAMEPLATE
23	1	NP715FC	NAMEPLATE, FRENCH CANADIAN
24	2	NP789	ROTARY DECAL
25	1	NP865	ETL ACCESSORY LABEL
26	1	NP870	PENDANT WARNING LABEL
27	1	NP884	PENDANT WARNING LABEL, FRENCH CANADIAN

3-Post 460V/575V

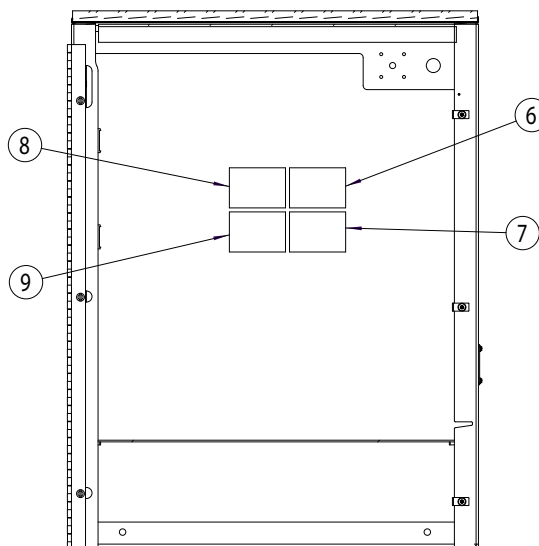


ITEM	QTY	PART NO.	DESCRIPTION
1	4	40649	#8-32NC HEX NYLON INSERT LOCKNUT
2	4	41457	#8-32NC x 5/8" Lg. PHIL TYPE B PHTS, PLTD
3	1	FA7958-10	7/8" HOLE PLUG
4	1	FA9118	PENDANT CIRCUIT BOARD
5	1	FA9122	PENDANT MEMBRANE TOUCHPAD
6	1	FA9123-9	EMERGENCY STOP ASSY, PENDANT
7	1	FA9123-11	THUMBSTICK ASSY, PENDANT
8	1	FA9123-13	LOWER TO LOCKS WIRING ASSY, PENDANT
9	1	MC110120	AIR PANEL ASSEMBLY
10	1	MC110124	LOWER BACK PANEL ASM.
11	1	MC110173	SIDE PANEL HDI325ASSY
12	1	MC120109	CONNECTIVITY PORT COVER
13	2	MC130034	WIRE WAY
14	4	MC130184	2" GALVANIZED HOLE PLUG
15	1	MC130258	THUMB JOYSTICK GUARD
16	4	MC130259	#4 x 3/8 PHMS THREAD FORMING SCREW, ZINC
17	4	MC130260	PLASTIC STAND-OFF MOD35 CONTROL LESS PENDANT
18	1	NP1200	DIRECTIONAL ARROWS NAMEPLATE
19	1	NP980	NAMEPLATE, LOWER TO LOCK

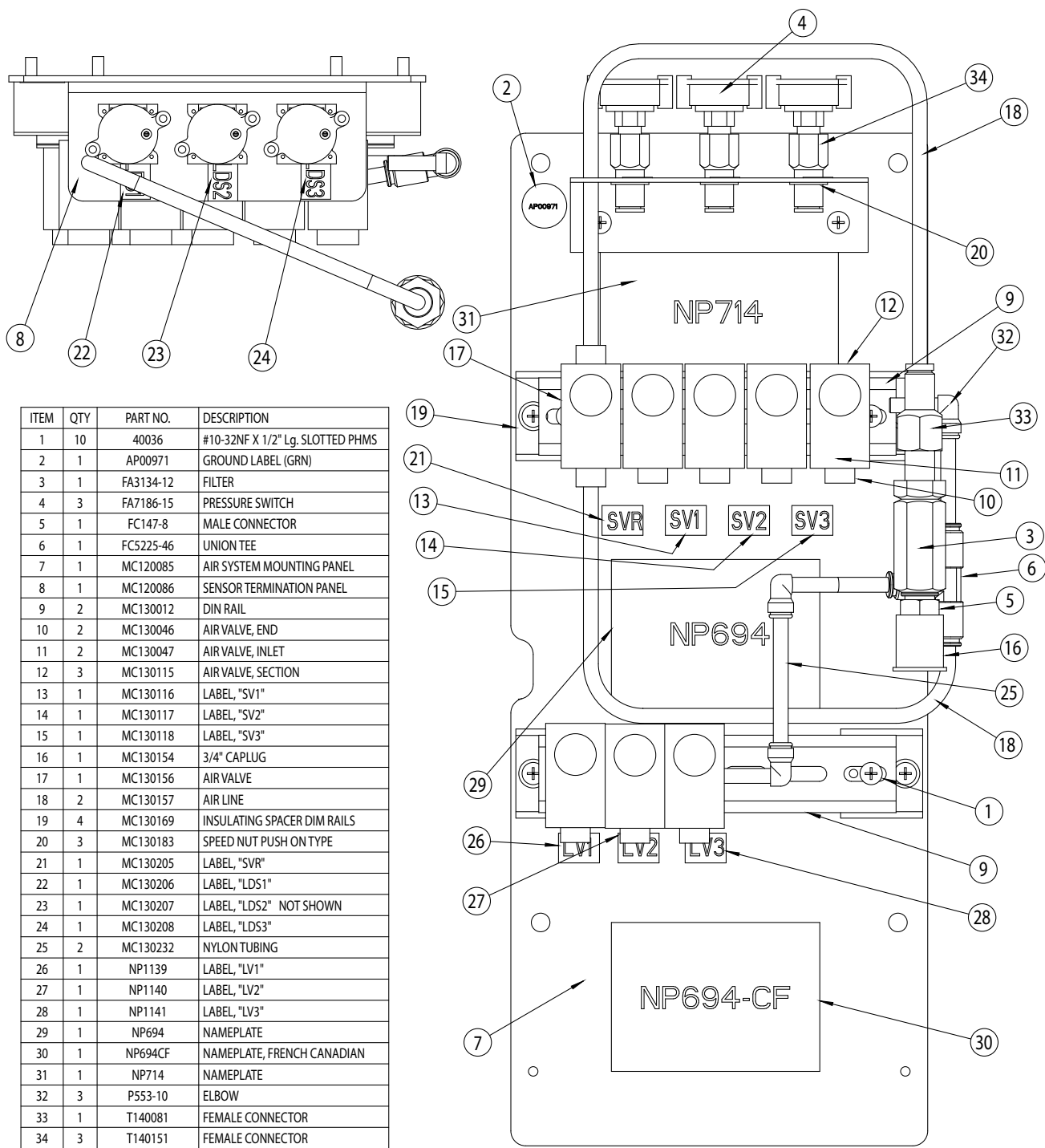
3-Post 460V/575V



ITEM	QTY	PART NO.	DESCRIPTION
1	13	40642	1/4"-20NC HEX NYLON INSERT LOCKNUT
2	1	MC110120	AIR PANEL ASSEMBLY
3	1	MC110173	SIDE PANEL HDI325ASSY
4	2	MC130034	WIRE WAY
5	1	NP687	NAMEPLATE
6	1	NP691	NAMEPLATE
7	1	NP691-CF	NAMEPLATE, FRENCH CANADIAN
8	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
9	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN

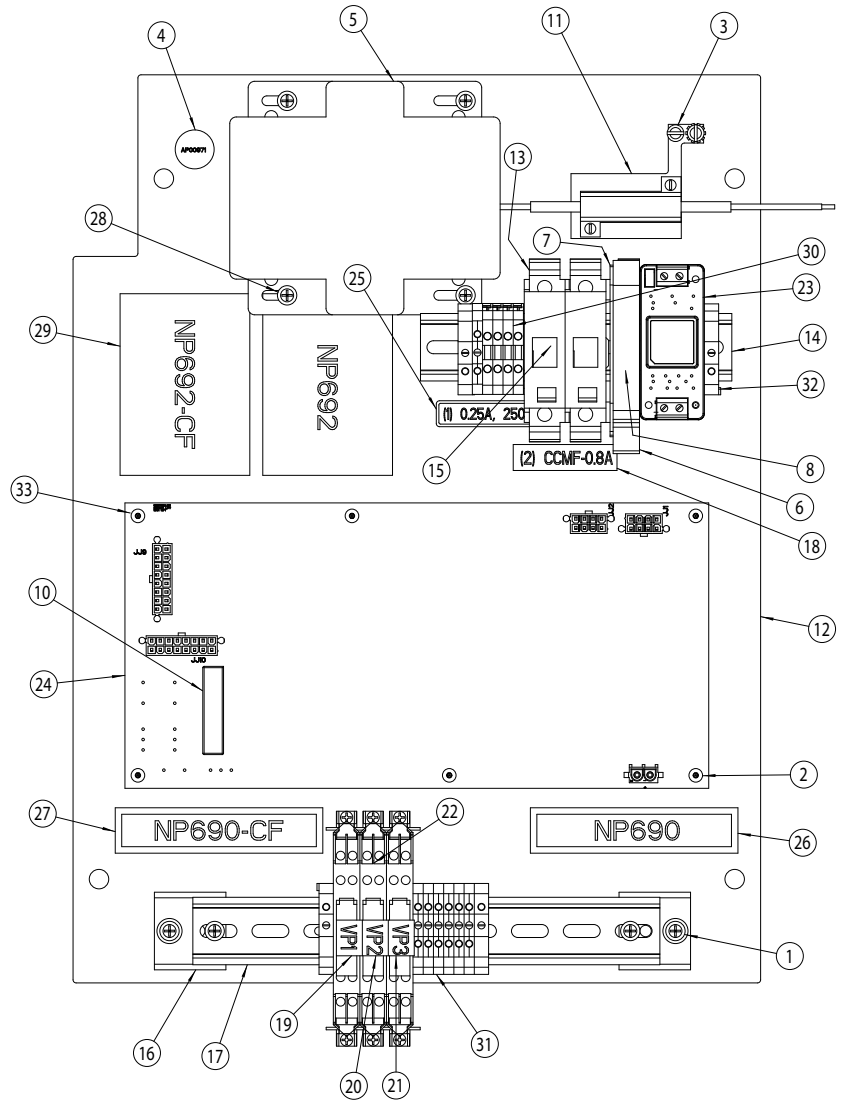


3-Post 460V/575V



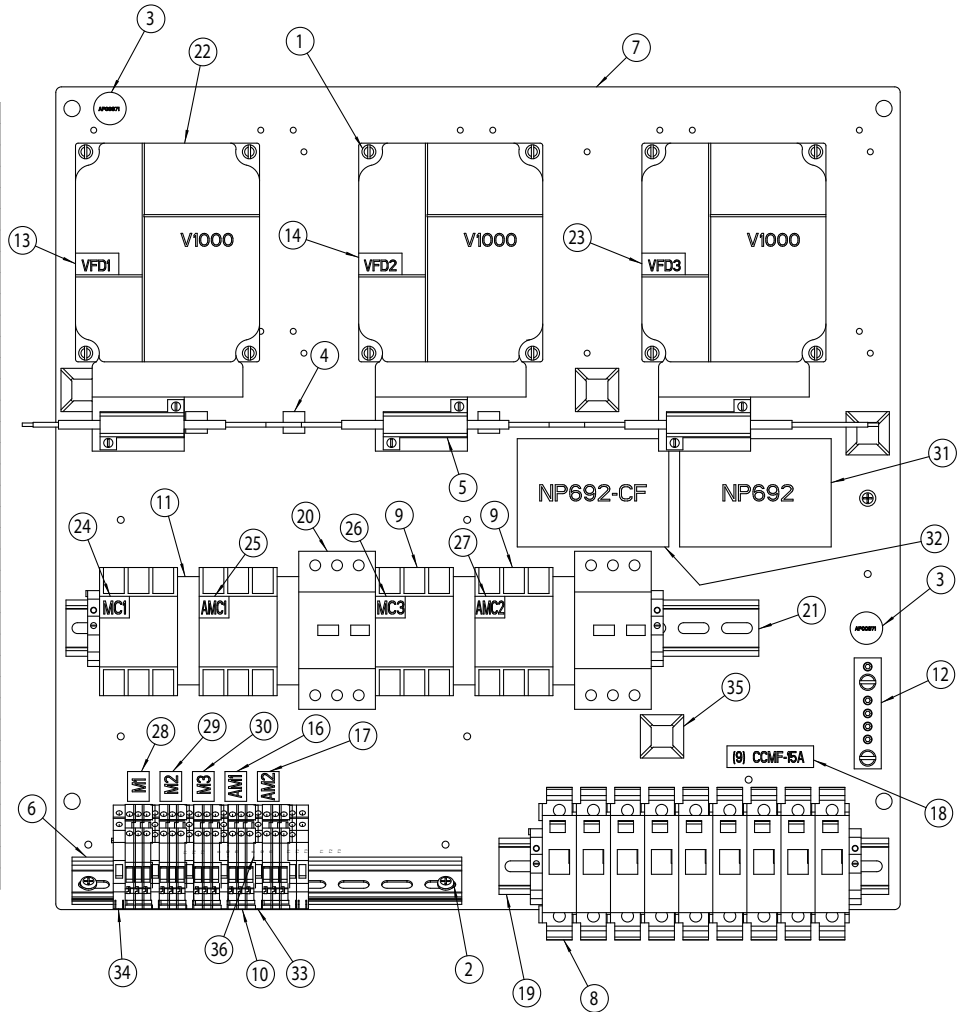
3-Post 460V/575V

ITEM	QTY	PART NO.	DESCRIPTION
1	10	40036	#10-32NF X 1/2" Lg. SLOTTED PHMS
2	12	40177	#6-32NC x 1/4" Lg. BHCS, GRD 2
3	1	41428	#8-32NC x 1/4" Lg. SLOTTED PHMS, PLTD
4	1	AP00971	GROUND LABEL (GRN)
5	1	FA8132	SOLA TRANSFORMER
6	1	FA9138	FUSE TERMINAL BLOCK
7	1	FA9139	END PLATE
8	1	FA9140	FUSE, 0.25A
9	1	FA9141	ZENER DIODE WIRE
10	1	FA9142	RELAY MODULE
11	1	MC110069	RESISTOR ASSM. 230V
12	1	MC120100	PCB MOUNTING PLATE
13	2	MC130003	FUSE TERMINAL BLOCK
14	1	MC130012	DIN RAIL
15	2	MC130163	FUSE, 0.8A
16	2	MC130169	INSULATING SPACER DIM RAILS
17	1	MC130179	DIN RAIL 9"
18	1	MC130188	LABEL, "CCMF" (LOCATED INSIDE OF MC130003)
19	1	MC130200	LABEL, "VP1"
20	1	MC130201	LABEL, "VP2"
21	1	MC130202	LABEL, "VP3"
22	3	MC130255	ZENER DIODE SAFETY BARRIER
23	1	MC130277	POWER SUPPLY 3.3V
24	1	MC130279	MAXNC CONTROL BD 3P HDI (NOT SHOWN)
25	1	NP1159	LABEL, "(1) .25A, 250V" (LOCATED INSIDE OF FA9138)
26	1	NP690	NAMEPLATE
27	1	NP690-CF	NAMEPLATE, FRENCH CANADIAN
28	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
29	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
30	4	XS130080	TERMINAL BLOCK
31	7	XS130081	GROUND BLOCK
32	4	XS130085	END STOP
33	6	XS130097	FEMALE THD STAND OFF #6-32 x 1-1/4 Lg. MMC #91780A760
34	1	XS130119	MARKER CARDS



3-Post 460V/575V

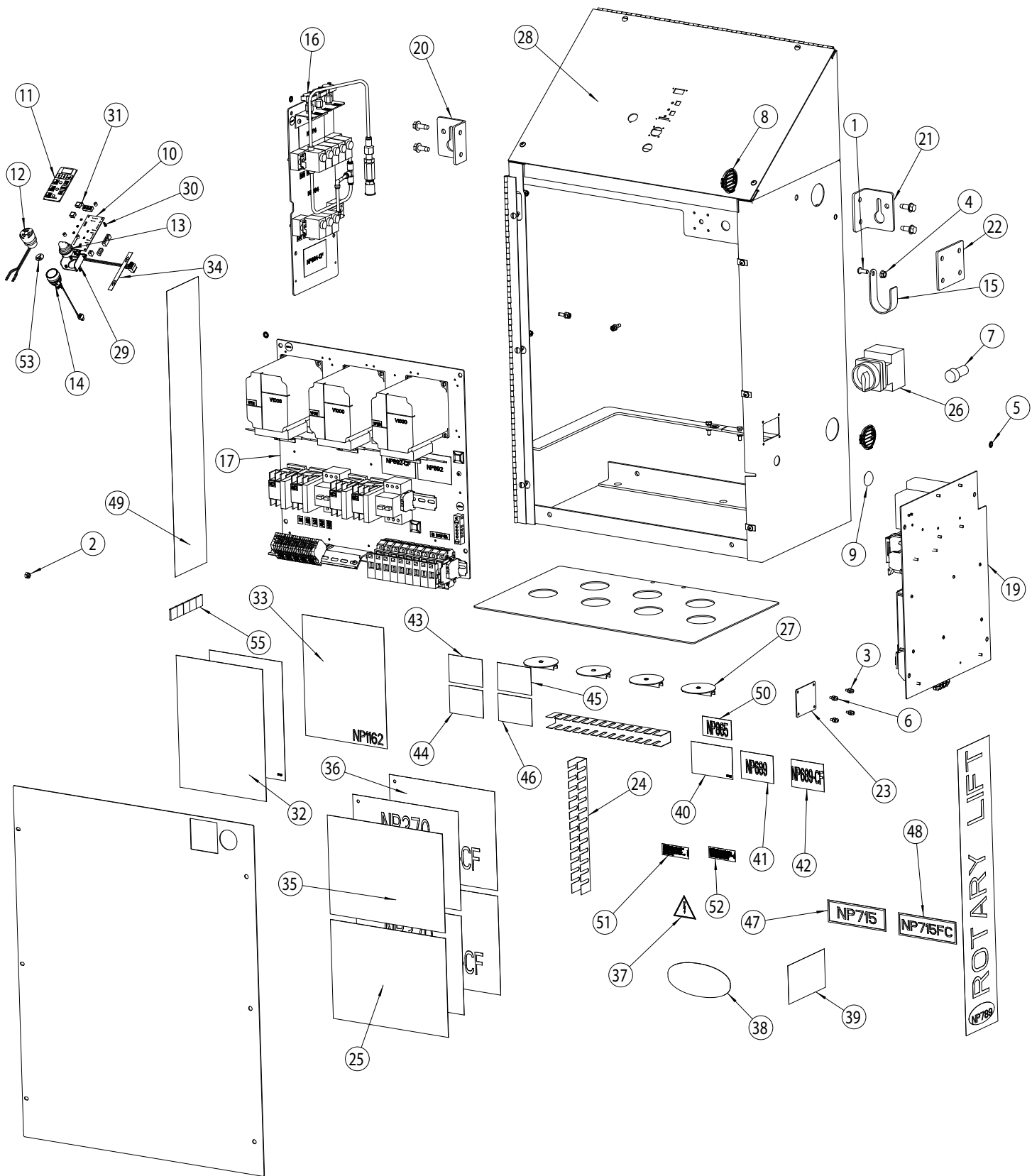
ITEM	QTY	PART NO.	DESCRIPTION
1	12	40022	#8-32NC x 1/2" Lg. SLOTTED PHMS, PLTD
2	9	40036	#10-32NF x 1/2" Lg. SLOTTED PHMS
3	2	AP00971	GROUND LABEL (GRN)
4	4	AP01281	DIODE - SURGE PROTECTION DIODE
5	3	MC110070	RESISTOR ASSM 460V
6	1	MC120029	POWER BRACKET
7	1	MC120101	VFD / CONTACTOR MAIN PANEL
8	9	MC130003	FUSE TERMINAL BLOCK
9	4	MC130014	CONTACTOR
10	15	MC130016	TERMINAL BLOCK
11	4	MC130018	AUX. CONTACTOR
12	1	MC130027	GROUND BAR
13	1	MC130069	LABEL, "VFD1"
14	1	MC130070	LABEL, "VFD2"
15	9	MC130077	FUSE (NOT SHOWN, LOCATED INSIDE OF MC130003)
16	1	MC130112	LABEL, "AM1"
17	1	MC130113	LABEL, "AM2"
18	1	MC130125	LABEL, "CCMF"
19	2	MC130179	DIN RAIL 9"
20	2	MC130196	MANUAL STARTER
21	1	MC130197	DIN RAIL 16"
22	3	MC130199	VARIABLE FREQUENCY DRIVE
23	1	MC130209	LABEL, "VFD3"
24	1	MC130210	LABEL, "MC1"
25	1	MC130211	LABEL, "AMC1"
26	1	MC130212	LABEL, "MC3"
27	1	MC130213	LABEL, "AMC2"
28	1	MC130214	LABEL, "M1"
29	1	MC130215	LABEL, "M2"
30	1	MC130216	LABEL, "M3"
31	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
32	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
33	5	XS130081	GROUND BLOCK
34	6	XS130085	END STOP
35	7	XS130094	WIRE TIE DOWN
36	1	XS130119	MARKER CARDS (LOCATE AS NEEDED)



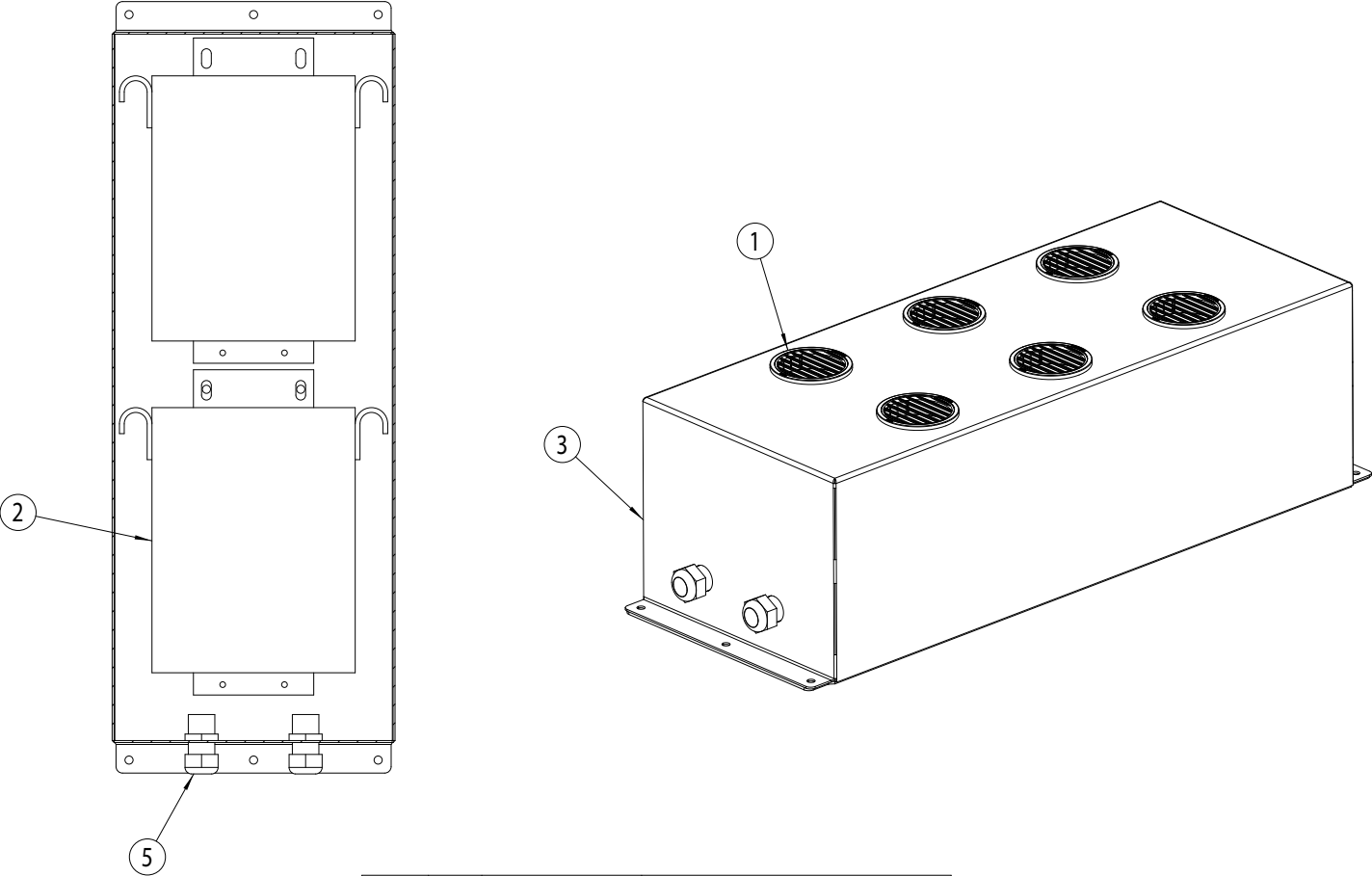
3-Post 460V/575V

ITEM	QTY	PART NO.	DESCRIPTION
1	1	40322	5/16-18NC x 3/4" Lg. HEX SOC BHCS, PLTD (NOT SHOWN)
2	13	40642	1/4"-20NC HEX NYLON INSERT LOCKNUT
3	4	40649	#8-32NC HEX NYLON INSERT LOCKNUT
4	1	40678	5/16"-18NC HEX FLGD WZLOCK NUT, PLTD
5	3	40779	1/4" EXT TOOTH LW
6	4	41457	#8-32NC x 5/8" Lg. PHIL TYPE B PHTS, PLTD
7	1	AC700029	COMPLETE, LIGHT, GREEN
8	2	FA5311	LOUVERED/FILTERED HOLE PLUG 2" DIAMETER
9	1	FA7958-10	7/8" HOLE PLUG
10	1	FA9118	PENDANT CIRCUIT BOARD
11	1	FA9122	PENDANT MEMBRANE TOUCHPAD
12	1	FA9123-9	EMERGENCY STOP ASSY, PENDANT
13	1	FA9123-11	THUMBSTICK ASSY, PENDANT
14	1	FA9123-13	LOWER TO LOCKS WIRING ASSY, PENDANT
15	1	M120262	REEL CORD HANGER
16	1	MC110120	AIR PANEL ASSEMBLY
17	1	MC110124	LOWER BACK PANEL ASM.
18	1	MC110134	WIRE & HARNESS KIT, MOD335 3-POST
19	1	MC110173	SIDE PANEL HDI325ASSY
20	1	MC120093LH	WALL MOUNT LEFT
21	1	MC120093RH	WALL MOUNT RIGHT
22	1	MC120108	CABINET TO CABINET MOUNTING PLATE
23	1	MC120109	CONNECTIVITY PORT COVER
24	2	MC130034	WIRE WAY
25	3	MC130054	POUCH
26	1	MC130167	DISCONNECT SWITCH
27	4	MC130184	2" GALVANIZED HOLE PLUG
28	1	MC130257	CABINET ASSEMBLY, MODx35
29	1	MC130258	THUMB JOYSTICK GUARD
30	4	MC130259	#4 x 3/8 PHMS THREAD FORMING SCREW, ZINC
31	4	MC130260	PLASTIC STAND-OFF MOD35 CONTROL LESS PENDANT
32	1	NP1113	NAMEPLATE
33	1	NP1162	NAMEPLATE - PREVENTIVE MAINTENANCE
34	1	NP1200	DIRECTIONAL ARROWS NAMEPLATE
35	2	NP370	PLACARD W/BLACK PLASTIC TIE (ALI/WL500w)
36	2	NP370CF	PLACARD (ALI/WL500w) FRENCH CANADIAN
37	1	NP584	HIGH VOLTAGE NAMEPLATE (NOT SHOWN)
38	1	NP607	NAMEPLATE
39	1	NP687	NAMEPLATE
40	1	NP1715	NAMEPLATE
41	1	NP689	NAMEPLATE
42	1	NP689-CF	NAMEPLATE, FRENCH CANADIAN
43	1	NP691	NAMEPLATE
44	1	NP691-CF	NAMEPLATE, FRENCH CANADIAN
45	1	NP692	NAMEPLATE - FUSE REPLACEMENT CAUTION
46	1	NP692-CF	NAMEPLATE, FRENCH CANADIAN
47	1	NP715	NAMEPLATE
48	1	NP715FC	NAMEPLATE, FRENCH CANADIAN
49	2	NP789	ROTARY DECAL
50	1	NP865	ETL ACCESSORY LABEL
51	1	NP870	PENDANT WARNING LABEL
52	1	NP884	PENDANT WARNING LABEL, FRENCH CANADIAN
53	1	NP980	NAMEPLATE, LOWER TO LOCK
54	1	WD057	CONTROL SYSTEM DRAWING
55	5	XS130094	WIRE TIE DOWN

3-Post 460V/575V



575V KIT



ITEM	QTY	PART NO.	DESCRIPTION
1	6	FA5309	LOUVERED HOLE PLUG 3" DIAMETER
2	2	FA7501	TRANSFORMER 600 V, 3 KVA
3	1	MC120095	MODx35 575V BOX
4	1	MC120097	575V BASE ASSY
5	3	MC130024	CORD GRIP
6	9	MC130091	WIRENUT (NOT SHOWN)
7	1	MC130135	WIRE (NOT SHOWN)

IMPORTANT Labels Placed On The Lift And Control Panel Display Information Concerning Safety, Operation, And Maintenance. Labels Must Be Replaced As They Become Faded And Worn. They Can Be Ordered By The Part Number Listed On The Label. Labels For This Lift Are Displayed In The Following Pages For Ease Of Ordering.



Part Number

NP689 Rev -

Intrinsically Safe Circuit

Provides Intrinsically Safe Circuit
Extensions For Use In Class I, Div. 1, Group D
Hazardous (Classified) Locations
When Connected Per Control Panel
Drawing No. WD039

NP714 Rev. A



! WARNING

This unit is supplied by more than one source of energy. Be sure to disconnect all energy sources at main power supply using appropriate lockout/tagout procedures. Before servicing this control panel the lift **MUST** be lowered. Only allow qualified lift service personnel to service control panel.

NP715 Rev -

CAUTION

**SET THERMAL OVERLOAD
PROTECTION TO PROPER
SETTING FOR OPERATING
VOLTAGE.**

NP693 Rev -

DANGER

**Always keep stop bolts
securely in place
at all times.**

NP678 REV -



NP738

CAPACITY

**25,000 LBS.
(11,340 Kg.)**

NP252 Rev. A

CAPACITY

**12,500 LBS.EACH
(5681 Kg. EACH)**

**See Saddle For
Maximum Capacity Rating**

NP1071 REV. A

CAUTION

**ALWAYS KEEP
TRENCH COVERS
IN POSITION.**

NP683 REV-

2-Post/3-Post Operations Decal

7-3/4"

1/2"

3/8" Grommet

SAFETY INSTRUCTIONS: Read and heed all WARNING, CAUTION and SAFETY INSTRUCTION labels on lift.

OPERATING INSTRUCTIONS: Only Authorized Personnel Are to Operate Lift. Before operating lift, read Operation and Maintenance Manual and Safety documents supplied with lift.

Before loading: Inspect lift to assure it is in good operating condition. See Operation and Maintenance Manual for details.

- Lift must be fully lowered and service bay clear of all personnel and/or other obstructions before vehicle is brought on lift.
- It will be necessary to open the front and rear housing doors before positioning vehicle over the lift. Position lift saddles and adapters to provide unobstructed entrance of vehicle onto lift.
- Spotting: Position vehicle centered laterally over the lift jacks with rear wheels centered in wheel dishes.
 - Adjust adapters as needed to engage recommended lift point. Auxiliary adapters may be required.

⚠ WARNING Before attempting to lift vehicle, be sure that:

- Vehicle individual axle weight does not exceed capacity shown on saddle.
- Adapters are in secure contact with vehicle manufacturer's recommended lift points.
- Adequate overhead clearance is provided to raise vehicle to desired height.

2. TO SPOT LIFT:

Manual Mode:
Use the Post Selection Keys and Mode Key to select individual post motion. Move each lift post to engage the vehicle manufacturer's recommended lift points. Press the joystick up for raise/forward, or down for lower/reverse.

Automatic Mode:
Select a pre-set vehicle profile from the menu screen using the Up/Down Arrow Keys. Select all posts using the Post Selection Keys. Press the joystick up to begin lift posts. All posts will automatically move to pre-set wheelbase positions. Adjust adapters to engage the vehicle manufacturer's recommended lift points.

3. TO RAISE LIFT:
Select all posts using the Post Selection Keys. Press the joystick up to raise posts to desired lifting height. Always watch vehicle.

⚠ IMPORTANT Do not go under vehicle unless all adapters are in secure contact at vehicle manufacturer's recommended lift points and properly spotted. While using lift, avoid excessive rocking of vehicle while on lift.

4. TO LOCK LIFT:
Press the Lower to Lock Pushbutton. This will allow the lift to settle onto the mechanical locking legs.

⚠ IMPORTANT Close housing doors once lift is raised.

5. TO LOWER LIFT:
Remove all obstacles from under vehicle and lift. Ensure personnel are not in the lift area. Select all posts using the Post Selection Keys. Press the joystick down to lower posts to desired height. Posts will stop automatically at floor height. Always watch vehicle. Return saddles and adapters to recess housing. Always provide an unobstructed exit before removing vehicle from lift area. Close housing doors once vehicle is removed.

Motor duty cycle is one full lifting operation within a 10 minute period.
Example: 2 minute rise time, 8 minutes rest.
If lift is not operating properly, DO NOT use until adjustments or repairs are made by qualified lift service personnel. For more information call your local authorized Rotary Lift installer representative. Need further assistance? Call Rotary Lift direct at (800) 445-LIFT.

10"

Code	Description
E0	CPU/Task Error
E1	Joystick Error
E3	Pendant Comm Error
E4	Out of level
E5	Emergency Stop
E9	Stuck Key
L	Liquid In Containment

Console Status Light	
	Flashing - Establishing Pendant Communications
	Solid On - Ready

Rotary Lift Madison, IN 47250 (800)445-5438 © April 2014 by Vehicle Service Group

NP1113
Rev. A 4/21/2014

Lift Model	Electrical Service	Current Required	"X" Mark Required
HDI225 208V	208V, 3Ph., 60Hz	33 Amp.	
HDI225 230V	230V, 3Ph., 60Hz	32 Amp.	
HDI225 460V	460V, 3Ph., 60Hz	16 Amp.	
HDI225 575V	575V, 3Ph., 60Hz.	12.8 Amp.	
HDI325 208V	208V, 3Ph., 60Hz	62 Amp.	
HDI325 230V	230V, 3Ph., 60Hz	56 Amp.	
HDI325 460V	460V, 3Ph., 60Hz	28 Amp.	
HDI325 575V	575V, 3Ph., 60Hz	23 Amp.	

NP1715 Rev. -

CAUTION

**FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME
TYPE FUSES AS SPECIFIED IN
SYSTEM WIRING DIAGRAM.**

NP692 Rev -

CAUTION

INTRINSICALLY SAFE WIRING.

NP690 Rev -

CAUTION

**IF CONNECTED TO
A CIRCUIT, PROTECTED
BY FUSES, USE
TIME-DELAY FUSES WITH
THIS EQUIPMENT.**

NP691 Rev -

CAUTION

**AIR SUPPLIED
TO LIFT MUST
BE BETWEEN
100PSI (7 BARS)
AND 120PSI (8 BARS)**

NP694 Rev -

ROTARY LIFT
INTRINSICALLY SAFE POSITION SENSING SYSTEM
INTRINSICALLY SAFE SENSOR (STRING POTENTIOMETER
FA2411)
CLASS I, DIVISION 1, GROUP D T4
WARNING: SUBSTITUTION OF COMPONENTS MAY
IMPAIR INTRINSIC SAFETY
READ MANUAL BEFORE INSTALLATION/OPERATION

SECURITE INTRINSEQUE
ADVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS
PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

NP684 REV-

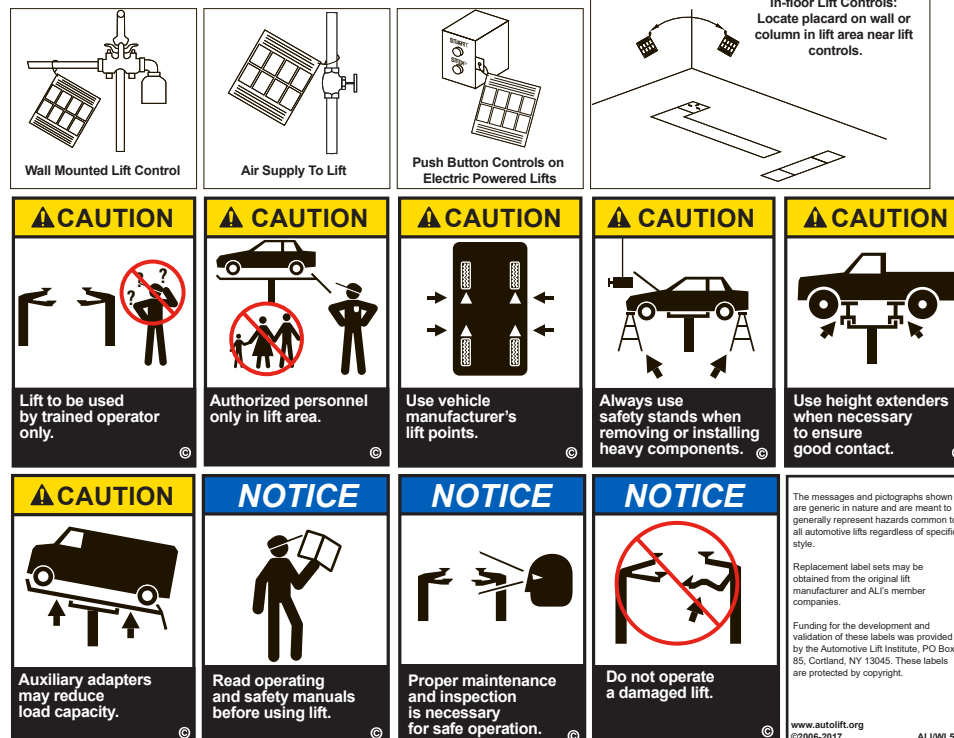
SAFETY WARNING LABELS FOR INGROUND LIFTS

Lift Owner/User Responsibilities:

- A. This Safety Warning placard **SHALL** be displayed in a conspicuous location in the lift area.
- B. Use one of the mounting arrangements illustrated on back of this placard.
- C. These Safety Warning labels supplement other documents supplied with the lift.
- D. Be certain all lift operators read and understand these labels, operating instructions and other safety related information supplied with the lift.



TYPICAL PLACARD LOCATIONS



ROTARY LIFT MOD35 AND HDI25 PREVENTIVE MAINTENANCE SCHEDULE INTERVAL IN MONTHS (REPEAT AFTER 2 YEARS)																									
To insure your safety, and to keep your lift operating properly, you MUST follow this maintenance schedule.																									
PROGRAMME D'ENTRETIEN PRÉVENTIF MOD35 Y HDI25 DE ROTARY LIFT INTERVALLE EN MOIS (À RÉPÉTER APRÈS 2 ANS) Pour garantir votre sécurité, et afin de vous assurer que votre pont élévateur fonctionne correctement, vous DEVEZ respecter ce programme d'entretien.																									
		If you are not completely familiar with automotive lift maintenance procedures, STOP : contact factory for instructions. Permit only qualified personnel to perform maintenance on this equipment.																							
		Si vous n'êtes complètement pas familiarisé avec les procédures d'entretien du pont élévateur, ARRÊTEZ-VOUS . Communiquez avec l'usine de fabrication pour obtenir des instructions. Confiez uniquement l'entretien de cet équipement à des personnes qualifiées.																							
PERIODIC INSPECTION: INSPECTION PÉRIODIQUE :		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
MECHANICAL LOCKS VERROUS MÉCANIQUES			A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I
SENSOR CABLES CÂBLES CAPTEURS							I						I							I					I
HYDRAULIC SYSTEM/OIL LEVEL SYSTÈME HYDRAULIQUE/NIVEAU D'HUILE							I						I							I					I
HOSE & FITTINGS, LEAKS TUYAUX ET AGENCEMENTS, FUITES				I			I			I			I			I			I			I			I
CYLINDER SEALS JOINTS DE CYLINDRE			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
STRUCTURAL SYSTEM / STRATÉGIE STRUCTURALE																									
SADDLE BOLTS (150 FT-LBS) BOULONS DE SELLE (150 PI-LB)			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
LOCKING LEG BOLTS (100 FT-LBS) BOULONS DE PIED DE VERROUILLAGE (100 PI-LB)			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
STATIONARY JACK TO FRAME (60 FT-LBS) CRIC STATIONNAIRE DU CHÂSSIS (60 PI LB)				I			I			I			I			I			I			I			I
AXLE U-BOLTS (35 FT-LBS) BOULONS EN U D'ESSIEU (35 PI LB)				I			I			I			I			I			I			I			I
ADAPTER STOP BOLTS BOULONS D'ARRÊT D'ADAPTATEUR			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
INSPECT SADDLE/ADAPTERS FOR DAMAGE INSPECTEZ L'ENSEMBLE SELLE/ADAPTATEURS AFIN DE DÉCELER DES DOMMAGES			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
PERIODIC MAINTENANCE / ENTRETIEN PÉRIODIQUE																									
CHAIN AND SPROCKETS CHAÎNE ET PIGNONS							L						L						L						L
MOVING COVER PLATE GUIDES CANAL À ROULETTES							L						L						L						L
ROLLER CHANNEL CANAL À ROULETTES							C						C						C						C
HYDRAULIC OIL HUILE HYDRAULIQUE		CHANGE HYDRAULIC OIL EVERY 5 YEARS CHANGEZ L'HUILE HYDRAULIQUE TOUS LES CINQ ANS																							
DRAIN CONDENSATION BOWL ON FRL DRAINEZ LE RÉCIPENT DE CONDENSATION AU SOL		EVERY SEVEN DAYS TOUS LES SEPT JOURS																							
NOTE 1: A=ACTIVATE, I=INSPECT, C=CLEAN, L=LUBRICATE, R=REPLACE NOTE 2: REPEAT INTERVAL AFTER 2 YEARS (*=REQUIRED ONLY FOR FIRST 6 MONTHS).																									
REMARQUE 1: A=ACTIVER, I=INSPECTER, C=NETTOYER, L=LUBRIFIER, R=REPLACER REMARQUE 2: RÉPÉTER L'INTERVALLE APRÈS 2 ANS (*=REQUIS UNIQUEMENT POUR LES SIX PREMIERS MOIS).																									
<div style="display: flex; justify-content: space-between;"> <div> OIL : AW 32 HUILE : AW 32 </div> <div> INSTALLATION DATE: _____ DATE D'INSTALLATION : _____ </div> <div style="text-align: right;"> NP1162 Rev A </div> </div>																									

Notes:

Notes:

Notes:



Rotary World Headquarters
3005 Highland Parkway, Suite 200
Downers Grove, Illinois 60515, USA
www.vsgdover.com
800.640.5438

North / South America Contact Information

Sales:

1.812.273.1622 / 800.445.5438
insidesales@vsgdover.com

Tech. Support:

800.445.5438
technicalsupport@rotarylif.com

Government Sales:

800.445.5438 X5655
rotarylif.com/Government-Purchasing-Assistance/

Additional information at rotarylif.com

Global Contact Information

Australasia: +60.3.5192.5910
Brazil: +55.11.4534.1995
Canada: 1.905.812.9920
European Headquarters/Germany: +49.771.9233.0
Latin America/Caribbean: 1.812.273.1622
Middle East/Northern Africa: +49.771.9233.0
Southern Africa: 1.812.273.1622
United Kingdom: +44.178.747.7711





Models: HDI225 (100 Series) INGROUND LIFTS

Capacity 50,000lbs.
25,000 lbs. Front Post
25,000 lbs. Rear Post

HDI325 (100 Series) INGROUND LIFTS

Capacity 75,000lbs.
25,000 lbs. Each Post

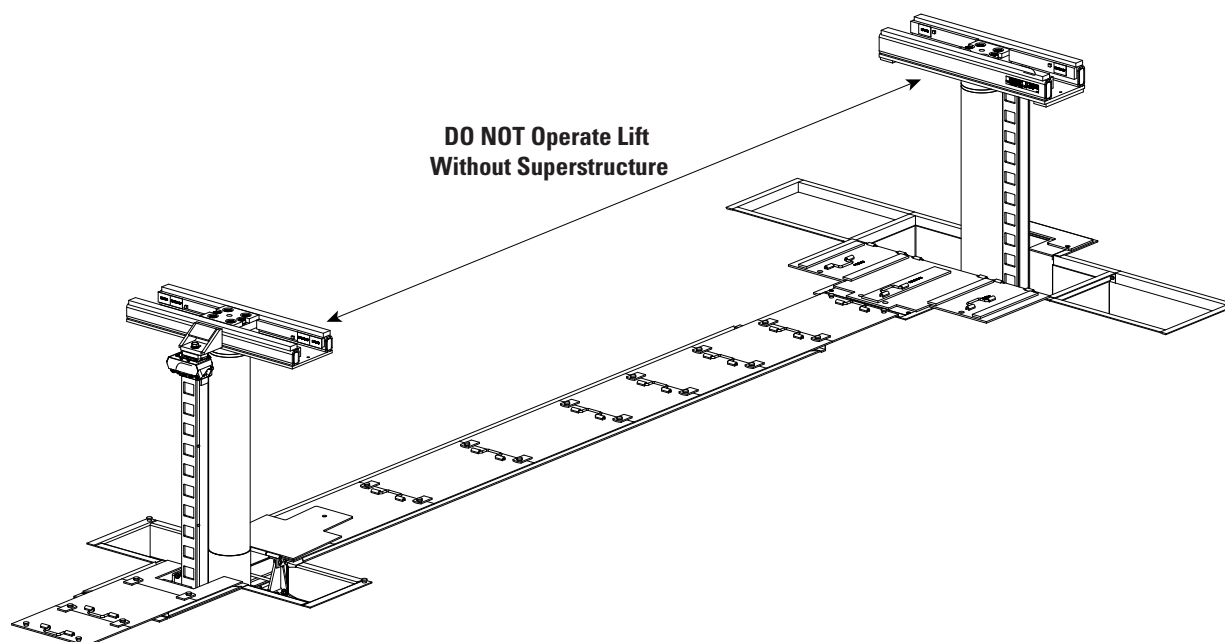


Table of Contents

Owner/Employer Responsibilities	2
Safety Instructions	3
Safety Warning Labels	4
Control Panel Overview	5
Operating Instructions.....	6
Using Vehicle Profiles	7
Service Menu	8
Maintenance Instructions.....	9
Trouble Shooting.....	10
Emergency Lowering Procedure	15
Lift Lockout/Tagout Procedure.....	16
Operating Conditions	16
Approved Accessories	16

Installer: Please return this booklet to literature package and give to lift owner/operator.

The Owner/Employer:

- Shall ensure that lift operators are qualified and that they are trained in the safe use and operation of the lift using the manufacturer's operating instructions; ALI/SM01-1, ALI Lifting it Right safety manual; ALI/ST ALI Safety Tips card; ANSI/ALI ALOIM: 2020, or latest edition, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; ALI/WL Series, ALI Uniform Warning Label Decals/Placards; and in the case of frame engaging lifts, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts.
- Shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM: 2020, or latest edition, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and The Employer Shall ensure that lift inspectors are qualified and that they are adequately trained in the inspection of the lift.
- Shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM: 2020, or latest edition, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and The Employer Shall ensure that lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.
- Shall maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM: 2020, or latest edition, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance.
- Shall display the lift manufacturer's operating instructions; ALI/SM, ALI Lifting it Right safety manual; ALI/ST ALI Safety Tips card; ANSI/ALI ALOIM: 2020, or latest edition, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and in the case of frame engaging lifts, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts; in a conspicuous location in the lift area convenient to the operator.
- Shall provide necessary lockout/tagout means for energy sources per ANSI Z244.1, Safety Requirements for the Lockout/Tagout of Energy Sources, before beginning any lift repairs.
- Shall not modify the lift in any manner without the prior written consent of the manufacturer.

For the latest manuals mentioned please contact Rotary or Autolift.org.



Autolift.org

SAFETY INSTRUCTIONS

- **Daily** inspect your lift. Never operate if it malfunctions or if it has broken or damaged parts. Use only qualified lift service personnel and genuine Rotary parts to make repairs.
- **Thoroughly** train all employees in use and care of lift, using manufacturer's instructions and "Lifting It Right" and "Safety Tips" supplied with the lift.
- **Never** allow unauthorized or untrained persons to position vehicle or operate lift.
- **Prohibit** unauthorized persons from being in shop area while lift is in use.
- **Do Not** permit anyone on lift or inside vehicle when it is either being raised or lowered.
- **Always** keep area around lift free of tools, debris, grease and oil.
- **Never** overload lift. Capacity of lift is shown on nameplate affixed to the lift.
- **Do Not** stand in front of the lift or vehicle while it is being positioned in the lift bay.
- **Do Not** hit or run over lift superstructure, saddle or adapters. This could damage lift or vehicle. Before driving vehicle into bay, position adapters inboard to provide unobstructed entrance onto lift.
- **Always** use all four adapters when raising vehicle. **Never** use just two adapters to raise just one side or one end of the vehicle.
- **Load** vehicle on lift carefully. Position lift adapters to contact the vehicle at vehicle manufacturer's recommended lift points.
- The center cover is designed for foot traffic only.
- If you are working under vehicle, lift should be raised high enough for locking latch to engage.
- **Do Not** block open or override self-closing lift controls, they are designed to return to the Off or Neutral position when released.
- **Remain** clear of lift and vehicle when lowering.
- **Always** use safety stands when removing or installing heavy components.
- **Avoid** excessive rocking of vehicle while on lift.
- **Clear** area if vehicle is in danger of falling.
- **Remove** tool trays, stands, etc. before lowering lift. Release locking latch before attempting to lower lift.
- **Position** lift adapters inboard to provide an unobstructed exit before removing vehicle from lift area.
- **Do Not** perform any maintenance on the power unit, control valves, air or fluid lines, hydraulic cylinders, or check fluid level until lift has been fully lowered and all pressure has been released from system. Follow OSHA Lockout/Tagout procedures as they apply; reference ANSI Z244.1.
- **Do Not** go under vehicle if locking latches are not engaged.
- **Never** use remote or pendant below floor grade.
- **Always** remain in line of sight when operating lift.

SAFETY WARNING LABELS FOR INGROUND LIFTS

Lift Owner/User Responsibilities:

- A. This Safety Warning placard **SHALL** be displayed in a conspicuous location in the lift area.
- B. Use one of the mounting arrangements illustrated on back of this placard.
- C. These Safety Warning labels supplement other documents supplied with the lift.
- D. Be certain all lift operators read and understand these labels, operating instructions and other safety related information supplied with the lift.

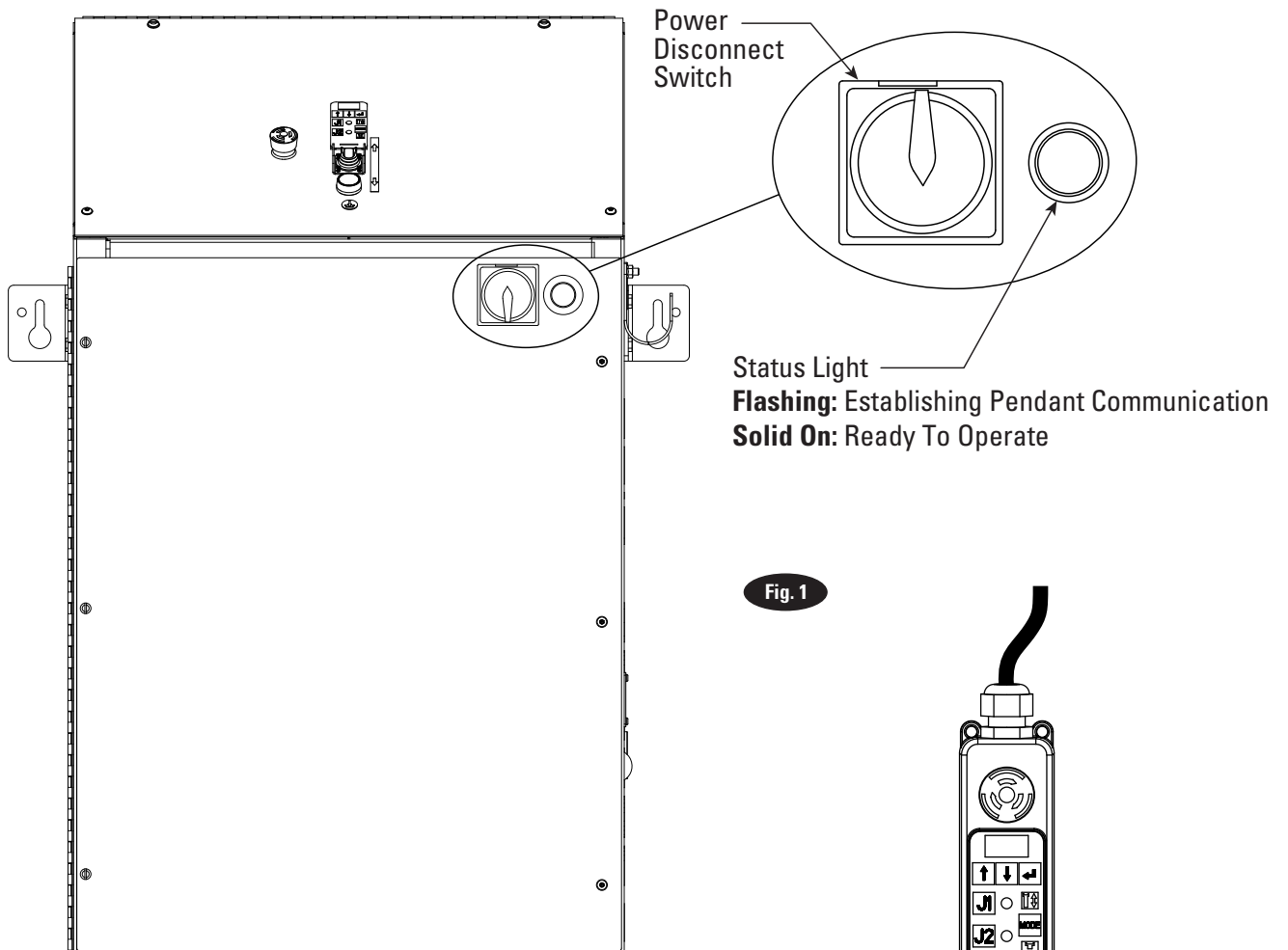
<p>WARNING</p> <p>Do not override self-closing lift controls.</p>	<p>WARNING</p> <p>DO NOT remove oil fill plug before reading manufacturer's manuals.</p>	<p>WARNING</p> <p>Position vehicle center of gravity over lift.</p>	<p>WARNING</p> <p>Remain clear of lift when raising or lowering vehicle.</p>	<p>WARNING</p> <p>Keep feet clear of lift while lowering.</p>
<p>WARNING</p> <p>Clear area if vehicle is in danger of falling.</p>	<p>WARNING</p> <p>Avoid excessive rocking of vehicle while on lift.</p>	<p>WARNING</p> <p>Chock wheel to prevent vehicle movement.</p>	<p>WARNING</p> <p>Use lift locking device or 4 stands to support vehicle.</p>	<p>The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.</p> <p>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indianalantic, FL. 32903-3116.</p> <p>They are protected by copyright. Set of labels may be obtained from ALI or its member companies.</p> <p>© 1992 by ALI, Inc. ALI/WLS500w</p>

TYPICAL PLACARD LOCATIONS

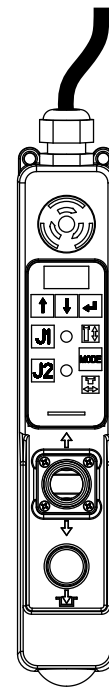
<p>Wall Mounted Lift Control</p>	<p>Air Supply To Lift</p>	<p>Push Button Controls on Electric Powered Lifts</p>	<p>In-floor Lift Controls: Locate placard on wall or column in lift area near lift controls</p>	
<p>CAUTION</p> <p>Lift to be used by trained operator only.</p>	<p>CAUTION</p> <p>Authorized personnel only in lift area.</p>	<p>CAUTION</p> <p>Use vehicle manufacturer's lift points.</p>	<p>CAUTION</p> <p>Always use safety stands when removing or installing heavy components.</p>	<p>CAUTION</p> <p>Use height extenders when necessary to ensure good contact.</p>
<p>CAUTION</p> <p>Auxiliary adapters may reduce load capacity.</p>	<p>NOTICE</p> <p>Read operating and safety manuals before using lift.</p>	<p>NOTICE</p> <p>Proper maintenance and inspection is necessary for safe operation.</p>	<p>NOTICE</p> <p>Do not operate a damaged lift.</p>	<p>The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.</p> <p>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indianalantic, FL. 32903-3116.</p> <p>They are protected by copyright. Set of labels may be obtained from ALI or its member companies.</p> <p>© 1992 by ALI, Inc. ALI/WLS500cs</p>

CONTROL PANEL OVERVIEW

Review Fig. 1 to get a quick overview of the control panel and it's functionality.



**DO NOT USE PENDANT BELOW
FLOOR LEVEL**



Wired Pendant

<p>Vehicle Service Group Pendant for hazardous locations FA9123 Class 1, Div. 2, Group D 24VDC, 0.1A For Indoor Use (5°-40° C) CAUTION De-energize and remove from hazardous location prior to opening.</p>	<p>Véhicule de groupe de service En disponibilité pour emplacements dangereux FA9123 Classe 1, Division 2, Groupe D 24VDC, 0.1A Pour l'Usage Intérieur ATTENTION! Mettre hors tension et sortir de l'emplacement dangereux avant l'ouverture.</p>
---	---

NP1117 Rev. -

2-Post/3-Post Operations Decal

SAFETY INSTRUCTIONS: Read and heed all WARNING, CAUTION and SAFETY INSTRUCTION labels on lift.
OPERATING INSTRUCTIONS: Only Authorized Personnel Are to Operate Lift. Before operating lift, read Operation and Maintenance Manual and Safety documents supplied with lift.

Before loading: Inspect lift to assure it is in good operating condition. See Operation and Maintenance Manual for details.

1. Lift must be fully lowered and service bay clear of all personnel and/or other obstructions before vehicle is brought on lift.
2. It will be necessary to open the front and rear housing doors before positioning vehicle over the lift. Position lift saddles and adapters to provide unobstructed entrance of vehicle onto lift.
3. Spotting: Position vehicle centered laterally over the lift jacks with rear wheels centered in wheel dishes.
 - Adjust adapters as needed to engage recommended lift point.
 - Auxiliary adapters may be required.

⚠ WARNING Before attempting to lift vehicle, be sure that:

- Vehicle individual axle weight does not exceed capacity shown on saddle.
- Adapters are in secure contact with vehicle manufacturer's recommended lift points.
- Adequate overhead clearance is provided to raise vehicle to desired height.

2. TO SPOT LIFT:

Manual Mode:
 Use the Post Selection Keys and Mode Key to select individual post motion. Move each lift post to engage the vehicle manufacturer's recommended lift points. Press the joystick up for raise/forward, or down for lower/reverse.

Automatic Mode:

Select a pre-set vehicle profile from the menu screen using the Up/Down Arrow Keys. Select all posts using the Post Selection Keys. Press the joystick up to begin lift posts. All posts will automatically

move to pre-set wheelbase positions. Adjust adapters to engage the vehicle manufacturer's recommended lift points.

3. TO RAISE LIFT:

Select all posts using the Post Selection Keys. Press the joystick up to raise posts to desired lifting height. Always watch vehicle.

IMPORTANT Do not go under vehicle unless all adapters are in secure contact at vehicle manufacturer's recommended lift points and properly spotted. While using lift, avoid excessive rocking of vehicle while on lift.

4. TO LOCK LIFT:

Press the Lower to Lock Pushbutton. This will allow the lift to settle onto the mechanical locking legs.

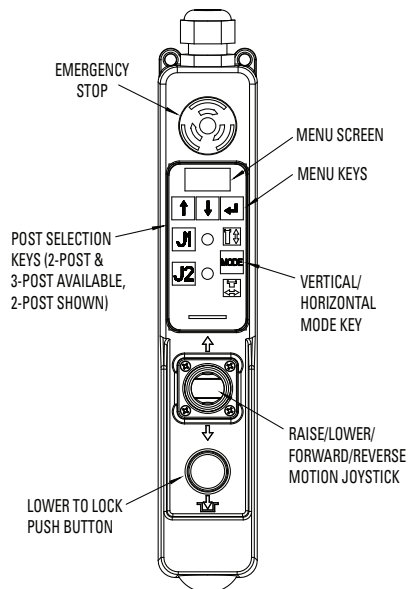
IMPORTANT Close housing doors once lift is raised.

5. TO LOWER LIFT:

Remove all obstacles from under vehicle and lift. Ensure personnel are not in the lift area. If lift is on the locks it must first be raised off the locks before it can be lowered. Select all posts using the Post Selection Keys. Press the joystick up to get the lift off the locks. Press the joystick down to lower posts to desired height. Posts will stop automatically at floor height. Always watch vehicle. Return saddles and adapters to recess housing. Always provide an unobstructed exit before removing vehicle from lift area. Close housing doors once vehicle is removed.

Motor duty cycle is one full lifting operation within a 10 minute period.

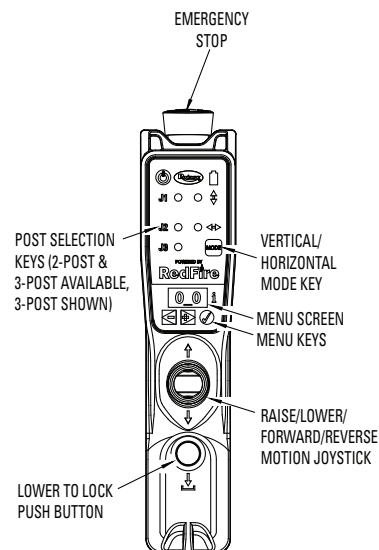
Example: 2 minute rise time, 8 minutes rest. If lift is not operating properly, DO NOT use until adjustments or repairs are made by qualified lift service personnel. For more information call your local authorized Rotary Lift installer representative. Need further assistance? Call Rotary Lift direct at (800) 445-LIFT.



Wired Pendant

Code	Description
E0	CPU/Task Error
E1	Joystick Error
E3	Pendant Comm Error
E4	Out of level
E5	Emergency Stop
E9	Stuck Key
L	Liquid In Containment

Console Status Light	
	Flashing - Establishing Pendant Communications
	Solid On - Ready



Wireless Pendant

MAINTENANCE INSTRUCTIONS

If you are not completely familiar with automotive lift maintenance procedures **STOP**. Contact factory for instructions. To avoid personal injury, permit only qualified personnel to perform maintenance on this equipment.

- **Always** replace all Caution, Warning, or Safety Related decals on the lift when unable to read or missing.
- **Always** keep lift components clean.
- **Always** if oil leakage is observed, call a Rotary Authorized Installer.
- **Always** if electrical problems develop, call a Rotary Authorized Installer.

Every 7 Days Check for accumulation of water.

- Drain as needed. DO NOT rely on automatic drains as they can malfunction.

Every 14 Days Check Post Position Sensor Cables

- Check cable for fraying or abrasion.
- Check cable connection that it is secure.
- Check cable tension that cable is not slack and readily retracts back into housing.
- Check that position sensor mounting hardware is secure.

Every 30 Days Inspect Adapters For Damage

- Deformed or broken parts should be replaced with Genuine Rotary Replacement Parts. Contact your local Rotary Authorized Installer.

Every 30 Days Check Fluid Seals At Each Post For Leakage

- If seals are worn or damaged, replace with Genuine Rotary Replacement parts.

Every 30 Days Check Bolts For Tightness

- **IMPORTANT** Check structural hardware for secureness. **Saddle and locking leg bolts should be torqued to 150 ft-lbs.**

Every 30 Days Lubricate The Pivot Pins On The Latch Release Air Cylinders And Locking Latches.

- Check that all locking latch components are functioning properly. Lubricate pivot pins on upper locking latch.

Every 180 Days Inspect Hydraulic System

- Check all hoses, pipes, and fittings for leaks, damage, or deterioration. Replace as required.

Every 180 Days Check Post Drive Sensor Cables

- Check cable for fraying or abrasion.
- Check cable connection that it is secure.
- Check cable tension that cable is not slack and readily retracts back into housing.
- Check that position sensor mounting hardware is secure.

Every 180 Days Lubricate And Inspect Carriage Rollers, Housing Door Hinges, Trench Chains And Sprockets.

- Lubricate with a good grade of chain oil. Check chain tension to ensure it is not slack.

Every 180 Days Clear Post Carriage Roller Channel Of Debris

- **IMPORTANT** Keep roller channel clear of debris.

Every 180 Days Check Power Unit Fluid Level

- Check the level of the hydraulic oil using the dipstick. The lift should be in the fully lowered position to check the oil level. If oil level is low, add oil to the reservoir before using lift again. Approved hydraulic oil includes either ISO32 or AW32.

Every 5 Years Replace Hydraulic Oil

- Replace with recommended oil grade ISO32 or AW32. The lift should be in the fully lowered position for servicing and checking the oil level.

Pendant Error Code Troubleshooting

Code	Description	Troubleshooting Steps
E0	CPU/Task Error	Control board fault - Consult factory
E1	Joystick Error	Error reading joystick position. Check wiring, replace if needed
E3	Pendant Comm Error	Check wiring between main board and pendant pins 2 and 3
E4	Out of Level	See out of level condition in the main troubleshooting section
E5	Emergency Stop	To restore function, reset Emergency Stop button
E8	Connection Error	Multiple units trying to connect to the same channel
E9	Stuck Key	A key or motion press was detected at start-up, or, a key or motion press has been engaged longer than 3 minutes
L	Liquid in Containment	Check containment for liquid and evacuate using clean out tube

TROUBLE SHOOTING

Troubleshooting Description	Possible Cause	Remedy
Oil Blowing Out Fill-Breather Cap	Air Mixed With Oil	Change oil using ISOVG32 Hydraulic Oil.
	Air Mixed With Oil Suction	Tighten all suction line fittings.
Lift Drifts Down	Hydraulic Check Valve Is Malfunctioning	Check air supply to pilot port on valve or replace check valve.
	Air Solenoid Valve Malfunction	Replace air solenoid valve.
	External Oil Leak	Check for leaks between check valve and cylinder. Repair external leaks.
	Bad Post Seal	Check for leaks. Contact an authorized service representative.
Locking Latch Will Not Release	Load On Locking Leg	Raise lift until locking latch engages the next locking position. Lower lift.
	Locking Latch Seized	Check for damage to components- Replace damaged components immediately. Clean and lubricate locking latch components so they operate freely. Check spring tension. Check for burrs on inner tube lock stops.
	Air Leak	Check tubing from air valve to locking latch cylinders.
	Dirty Air Line Filter	Clean air filter.
	No Air Supply	Check tubing and compressor.
	Air Valve Stuck Close	Cycle/toggle, replace valve if necessary.
	Air Cylinder Malfunction	Check cylinder for proper operation. Replace air cylinder.
Locking Latches Do Not Engage	Locking Latch Seized	Check for damage to components. Replace damaged components immediately. Clean and lubricate locking latch components so they operate freely.
	Air Valve Stuck Open	Replace air solenoid valve.
Lift Will Not Raise Off Of Latches	Motor, Pump, Or Cylinder Failure.	Contact lift manufacturer's Customer Service.
Control Panel Does Not Power Up	No 24V Power Supply To Main Control Board	Check for 24V power coming from transformer.
Pendant Does Not Power Up, Or, Flashing Light On Console Stays Lit	No Power Or Communication With Pendant	Check pendant cable wiring, check for 24V power to pendant pins 1 and 4.

TROUBLE SHOOTING

Troubleshooting Description	Possible Cause	Remedy
Low Air Pressure	Air supply not functioning or not adequate	Check air compressor for required air pressure. Minimum 100 PSI is required to operate the lift system. Check that all supply valves to control cabinet are on.
	The set point on the air pressure switch is adjusted incorrectly	Adjust set point to increase air pressure.
	Broken air lines, leaking fittings, loose or damaged wiring to air pressure switch inside control cabinet	Repair air lines and fittings. Tighten all wiring connections. Repair or replace damaged wiring.
Out Of Level Condition	Vehicle weight and distribution not within rated lift capacity	Verify axle weights are within rated post capacity.
	Check for obstructions preventing lift from raising or lowering	The lift must be raised/lowered manually to bring the posts back to within operating limits.
	Hydraulic check valve is malfunctioning	No or low air supply to pilot on hydraulic check valve or replace check valve.
	Main control board not operating properly	Contact an authorized service representative.
	Post position sensor not operating properly	Contact an authorized service representative.
	Damaged hydraulic hoses or loose fittings	Replace damaged hoses or fittings.
	Low oil level	Add hydraulic oil to the reservoir. Approved hydraulic oil includes either ISO32 or AW32.

TROUBLE SHOOTING

Troubleshooting Description	Possible Cause	Remedy
Lift Fails To Raise Or Lower	When joystick is pushed forward	Follow troubleshooting instructions for fault displays.
		Motor/pump runs but will not lift load- vehicle weight and/or distribution not within lift rated capacity.
		Motor rotation incorrect- motor rotation is clockwise from top.
		Upper height limit not set properly- reset upper height limit.
		Joystick malfunctions- check wiring connections. Replace joystick if damaged.
	When joystick is pulled backward	Follow troubleshooting instructions for fault displays.
		Joystick malfunctions- check wiring connections. Replace joystick if damaged.
		Locks not fully disengaging- check air valve and lock operation.
		Hydraulic check valve is malfunctioning- check air supply to pilot on hydraulic check valve or replace hydraulic check valve.
		Velocity fuses malfunctioning- pressurize lift hydraulically then manually operate the motor controller to release hydraulic pressure.
Lift Shakes Or Shudders	Low oil level	Check the level of the hydraulic oil using the dipstick. The lift should be in the fully lowered position to check the oil level. Add oil to the reservoir if required, before using the lift again. Approved hydraulic oil includes either ISO32 or AW32. See installation instructions for proper bleeding procedures.
	Control system wiring not clean and tight	Clean and reconnect wiring making sure all connections are tight.
	Air in the hydraulic system	See installation instructions for proper bleeding procedures.
All Posts Don't Operate	Connections to main control board or to electrical components incorrect or loose	Refer to electrical schematic in installation instructions. Check and tighten all connections as required. Check all wiring harnesses for abrasion and cuts.
	Main control board not operating properly	Contact an authorized service representative.
	Motor controller malfunctioning	Contact an authorized service representative.
	Internal oil leak	Have hydraulic system serviced by an authorized service representative.

TROUBLE SHOOTING

Troubleshooting Description	Possible Cause	Remedy
All Posts Don't Operate continued	Velocity fuses malfunctioning	Pressurize lift hydraulically then manually operate the motor controller to release hydraulic pressure.
	External oil leak	Have hydraulic system serviced by an authorized service representative.
	Low oil level	Check the level of the hydraulic oil using the dipstick. The lift should be in the fully lowered position to check the oil level. Add oil to the reservoir if required, before using the lift again. Approved hydraulic oil includes either ISO32 or AW32. See installation instructions for proper bleeding procedures.
Motor/pump Runs But Will Not Lift Load	Vehicle weight and/or distribution not within lift rated capacity	Verify axle weights are within rated post capacity.
	External oil leak	Have hydraulic system serviced by an authorized service representative.
	Internal oil leak	Have hydraulic system serviced by an authorized service representative.
	Pump malfunctioning	Have hydraulic system serviced by an authorized service representative.
Post Will Not Adjust Fore/Aft	Chain broken	Replace chain. See installation manual for adjustment procedures.
	Drive motor malfunction	Contact an authorized service representative.

TROUBLE SHOOTING

Troubleshooting Description	Possible Cause	Remedy
	Loose connections at terminal blocks and position sensors	Clean and tighten wiring connections.
	Damaged or broken position sensor cables	Replace position sensor.
	Damaged or broken position sensor	Replace position sensor.
	Broken mechanical connections to position sensors	Repair connections or replace position sensor.
	Incorrect voltage supply to position sensor	5V supply is required to operate the position sensor.
Constant Flashing Status Light On Control Panel	Emergency stop is pressed	Check emergency stop on pendant control.
	Pendant communication error	Check wiring between pendant control and control console.

EMERGENCY LOWERING PROCEDURE

1. Replace facility air with a compressor set at 110psi.
2. Replace facility power with a generator rated for 3-phase, 10kw at the appropriate voltage for the control cabinet.
3. Raise each post off of locks individually. Only run one motor at a time during raise. Lower in synchronized (all) mode.

LIFT LOCKOUT/TAGOUT PROCEDURE

Purpose

This procedure establishes the minimum requirements for the lockout of energy that could cause injury to personnel by the operation of lifts in need of repair or being serviced. All employees shall comply with this procedure.

Responsibility

The responsibility for assuring that this procedure is followed is binding upon all employees and service personnel from outside service companies (i.e., Authorized Rotary Installers, contractors, etc.). All employees shall be instructed in the safety significance of the lockout procedure by the facility owner/manager. Each new or transferred employee along with visiting outside service personnel shall be instructed by the owner/manager (or assigned designee) in the purpose and use of the lockout procedure.

Preparation

Employees authorized to perform lockout shall ensure that the appropriate energy isolating device (i.e., circuit breaker, fuse, disconnect, etc.) is identified for the lift being locked out. Other such devices for other equipment may be located in close proximity of the appropriate energy isolating device. If the identity of the device is in question, see the shop supervisor for resolution. Assure that proper authorization is received prior to performing the lockout procedure.

Sequence of Lockout Procedure

- 1) Notify all affected employees that a lockout is being performed and the reason for it.
- 2) Unload the subject lift. Shut it down and assure the disconnect switch is "OFF" if one is provided on the lift.
- 3) The authorized lockout person operates the main energy isolation device removing power to the subject lift.
 - If this is a lockable device, the authorized lockout person places the assigned padlock on the device to prevent its unintentional reactivation. An appropriate tag is applied stating the person's name, at least 3" x 6" in size, an easily noticeable color, and states not to operate device or remove tag.
 - If this device is a non-lockable circuit breaker or fuse, replace with a "dummy" device and tag it appropriately as mentioned above.
- 4) Attempt to operate lift to assure the lockout is working. Be sure to return any switches to the "OFF" position.
- 5) The equipment is now locked out and ready for the required maintenance or service.

Restoring Equipment to Service

- 1) Assure the work on the lift is complete and the area is clear of tools, vehicles, and personnel.
- 2) At this point, the authorized person can remove the lock (or dummy circuit breaker or fuse) & tag and activate the energy isolating device so that the lift may again be placed into operation.

Rules for Using Lockout Procedure

Use the Lockout Procedure whenever the lift is being repaired or serviced, waiting for repair when current operation could cause possible injury to personnel, or for any other situation when unintentional operation could injure personnel. No attempt shall be made to operate the lift when the energy isolating device is locked out.

OPERATING CONDITIONS

Lift is not intended for outdoor use and has an operating ambient temperature range of 41°-104°F (5°-40°C).

ROTARY LIFT MOD35 AND HDI25 PREVENTIVE MAINTENANCE SCHEDULE INTERVAL IN MONTHS (REPEAT AFTER 2 YEARS)																												
To insure your safety, and to keep your lift operating properly, you MUST follow this maintenance schedule.																												
PROGRAMME D'ENTRETIEN PRÉVENTIF MOD35 Y HDI25 DE ROTARY LIFT INTERVALLE EN MOIS (À RÉPÉTER APRÈS 2 ANS) Pour garantir votre sécurité, et afin de vous assurer que votre pont élévateur fonctionne correctement, vous DEVEZ respecter ce programme d'entretien.																												
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 10px; text-align: center;"> ⚠ WARNING </div> <div> If you are not completely familiar with automotive lift maintenance procedures, STOP: contact factory for instructions. Permit only qualified personnel to perform maintenance on this equipment. </div> </div>																												
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 10px; text-align: center;"> ⚠ AVERTISSEMENT </div> <div> Si vous n'êtes complètement pas familiarisé avec les procédures d'entretien du pont élévateur, ARRÊTEZ-VOUS. Communiquez avec l'usine de fabrication pour obtenir des instructions. Confiez uniquement l'entretien de cet équipement à des personnes qualifiées. </div> </div>																												
PERIODIC INSPECTION:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
INSPECTION PÉRIODIQUE :																												
MECHANICAL LOCKS																												
VERROUS MÉCANIQUES		A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I
SENSOR CABLES																												
CÂBLES CAPTEURS																												
HYDRAULIC SYSTEM/OIL LEVEL																												
SYSTÈME HYDRAULIQUE/NIVEAU D'HUILE																												
HOSE & FITTINGS, LEAKS																												
TUYAUX ET AGENCEMENTS, FUITES																												
CYLINDER SEALS																												
JOINTS DE CYLINDRE																												
STRUCTURAL SYSTEM / STRATÉGIE STRUCTURALE																												
SADDLE BOLTS (150 FT-LBS)																												
BOULONS DE SELLE (150 PI-LB)																												
LOCKING LEG BOLTS (100 FT-LBS) BOULONS DE PIED DE VERROUILLAGE (100 PI-LB)																												
STATIONARY JACK TO FRAME (60 FT-LBS) CRIC STATIONNAIRE DU CHÂSSIS (60 PI LB)																												
AXLE U-BOLTS (35 FT-LBS) BOULONS EN U D'ESSIEU (35 PI LB)																												
ADAPTER STOP BOLTS BOULONS D'ARRÊT D'ADAPTATEUR																												
INSPECT SADDLE/ADAPTERS FOR DAMAGE INSPECTEZ L'ENSEMBLE SELLE/ADAPTATEURS AFIN DE DÉCELER DES DOMMAGES																												
PERIODIC MAINTENANCE / ENTRETIEN PÉRIODIQUE																												
CHAIN AND SPROCKETS CHAÎNE ET PIGNONS																												
MOVING COVER PLATE GUIDES CANAL À ROULETTES																												
ROLLER CHANNEL CANAL À ROULETTES																												
HYDRAULIC OIL HUILE HYDRAULIQUE											CHANGE HYDRAULIC OIL EVERY 5 YEARS CHANGEZ L'HUILE HYDRAULIQUE TOUS LES CINQ ANS																	
DRAIN CONDENSATION BOWL ON FRL DRAINEZ LE RÉCIPENT DE CONDENSATION AU SOL											EVERY SEVEN DAYS TOUS LES SEPT JOURS																	
NOTE 1: A=ACTIVATE, I=INSPECT, C=CLEAN, L=LUBRICATE, R=REPLACE NOTE 2: REPEAT INTERVAL AFTER 2 YEARS (*=REQUIRED ONLY FOR FIRST 6 MONTHS).																												
REMARQUE 1: A=ACTIVER, I=INSPECTER, C=NETTOYER, L=LUBRIFIER, R=REPLACER REMARQUE 2: RÉPÉTER L'INTERVALLE APRÈS 2 ANS (*=REQUIS UNIQUEMENT POUR LES SIX PREMIERS MOIS).																												
<div style="display: flex; justify-content: space-between;"> <div> OIL : AW 32 HUILE : AW 32 </div> <div> INSTALLATION DATE: _____ DATE D'INSTALLATION : _____ </div> <div style="text-align: right;"> NP1162 Rev A </div> </div>																												

**Trained Operators and Regular Maintenance Ensures
Satisfactory Performance of Your Rotary Lift.**

Replacement Parts: See installers package for parts breakdown sheet. Order Genuine Rotary replacement parts from your nearest Authorized Parts Distributor.

Maintenance Assistance: Contact your local Rotary distributor.

Should further assistance be required, contact Rotary Lift, at one of the phone numbers listed below.



Rotary World Headquarters
3005 Highland Parkway, Suite 200
Downers Grove, Illinois 60515, USA
www.vsgdover.com
800.640.5438

North / South America Contact Information

Sales:

1.812.273.1622 / 800.445.5438
insidesales@vsgdover.com

Tech. Support:

800.445.5438
technicalsupport@rotarylif.com

Government Sales:

800.445.5438 X5655
rotarylif.com/Government-Purchasing-Assistance/

Additional information at rotarylif.com

Global Contact Information

Australasia: +60.3.5192.5910
Brazil: +55.11.4534.1995
Canada: 1.905.812.9920
European Headquarters/Germany: +49.771.9233.0
Latin America/Caribbean: 1.812.273.1622
Middle East/Northern Africa: +49.771.9233.0
Southern Africa: 1.812.273.1622
United Kingdom: +44.178.747.7711

