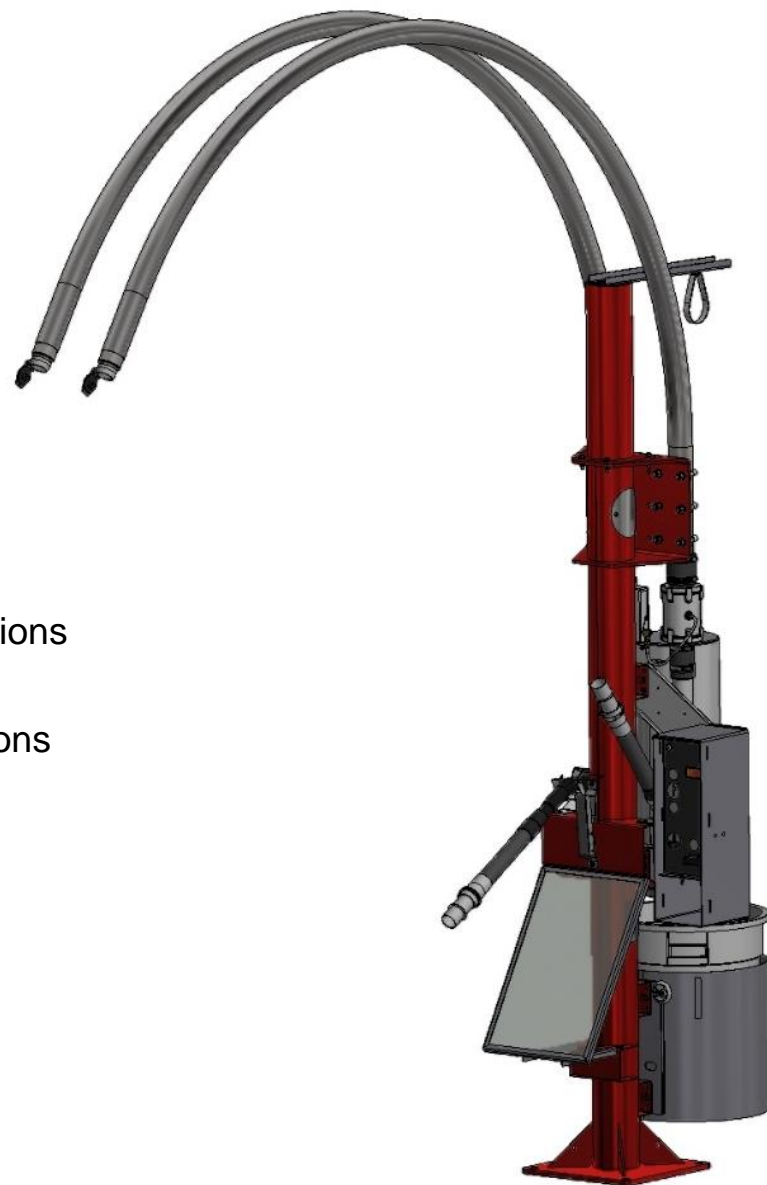




Models- **35000-400 CENTRAL VAC PAY SYSTEM**

| | |
|------------|---------------------------------------|
| Page 2 | Product Information |
| Page 3,4 | Specifications |
| Page 5 | Product Dimensions |
| Page 6 | Collector Information |
| Page 7-9 | Control Box Installation Instructions |
| Page 10-12 | Valve Installation Instructions |
| Page 13 | Face Plate Installation Instructions |
| Page 14 | Maintenance/ Operation |
| Page 15-21 | Parts |



PRODUCT INFORMATION

Please take a moment to fill out the information below in order to aid us with any future sales or service inquiries. Model number and serial number information can be found on the serial tag located inside the control box and/or on the lower exterior of the can. Key number can be found on the tag that comes attached to the keys. There may be more than one key number depending on unit.

Please keep this information with your records.

MODEL#:_____

SERIAL#:_____

KEY NUMBER(S):_____

DATE PURCHASED:_____

DISTRIBUTOR:_____

**J.E. Adams Industries
1025 63rd Ave. S.W.
Cedar Rapids, IA 52404
1-800-553-8861
www.jeadams.com**

Specifications

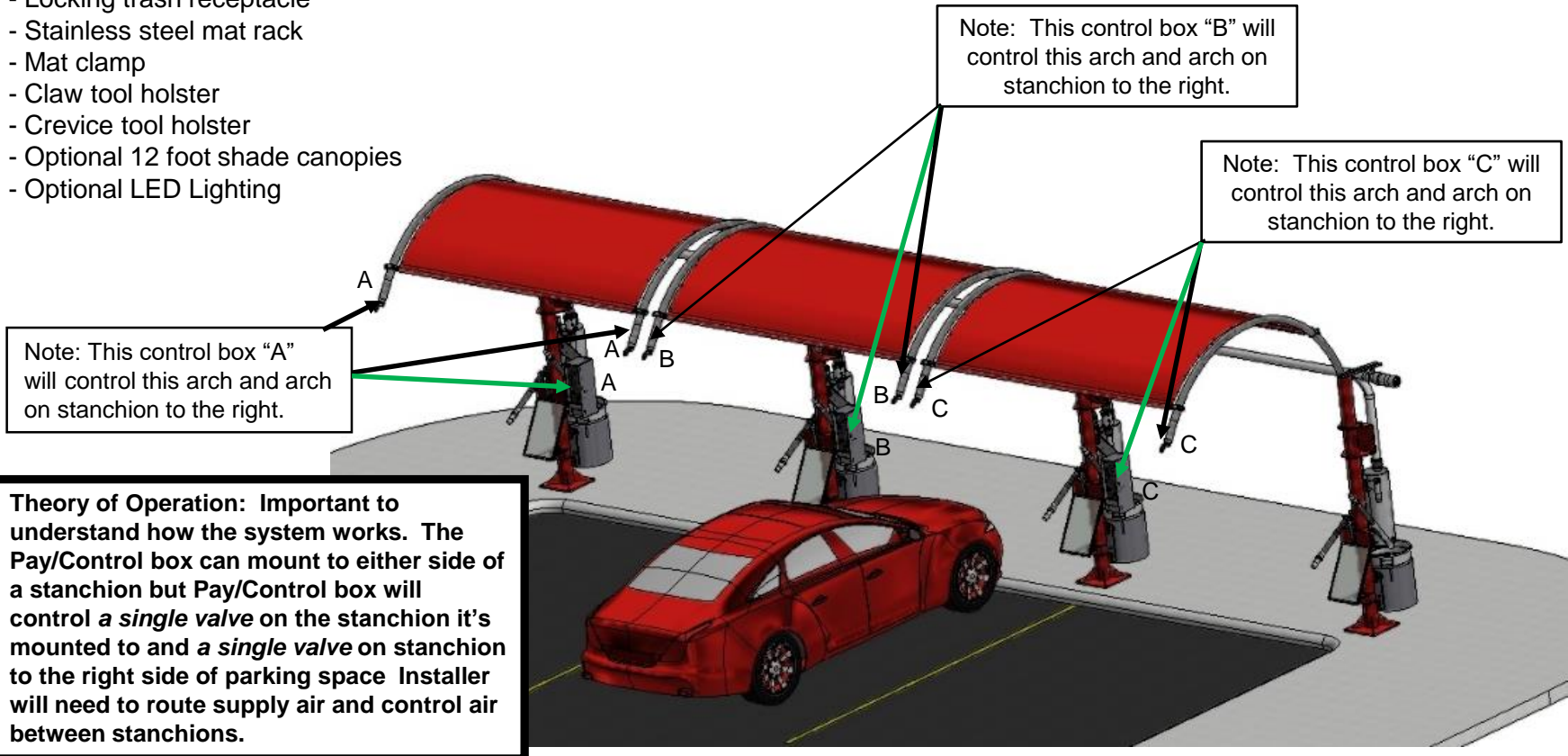
Pay system will work with existing systems Straight arch formation, with following additions:

- Pre-collector kits (singles on ends, doubles in middle) (systems ordered before May 2020)
- Valve kits, singles and doubles (comes with control solenoid when necessary)
- Control/pay box (tall box only, uses long face plates, left or right post mounting)
- Control faceplate assemblies (standard combinations available)
- Customer supplied air source and air lines ***(90 PSI maximum pressure)***

NOTE: This manual is for central vac pay system only. If installing new system you must use 35000-01_11 Dual Arch Stanchion manual which has details of installation of stanchions, arches and canopies along with accessories.

Pay system works with standard accessories:

- Locking trash receptacle
- Stainless steel mat rack
- Mat clamp
- Claw tool holster
- Crevice tool holster
- Optional 12 foot shade canopies
- Optional LED Lighting



Specifications Cont.

Unit specifications:

Voltage:

Amperage:

Weight:

Per Control Box Assembly (LED7 Display version)

120vac, 60hz

15 amp

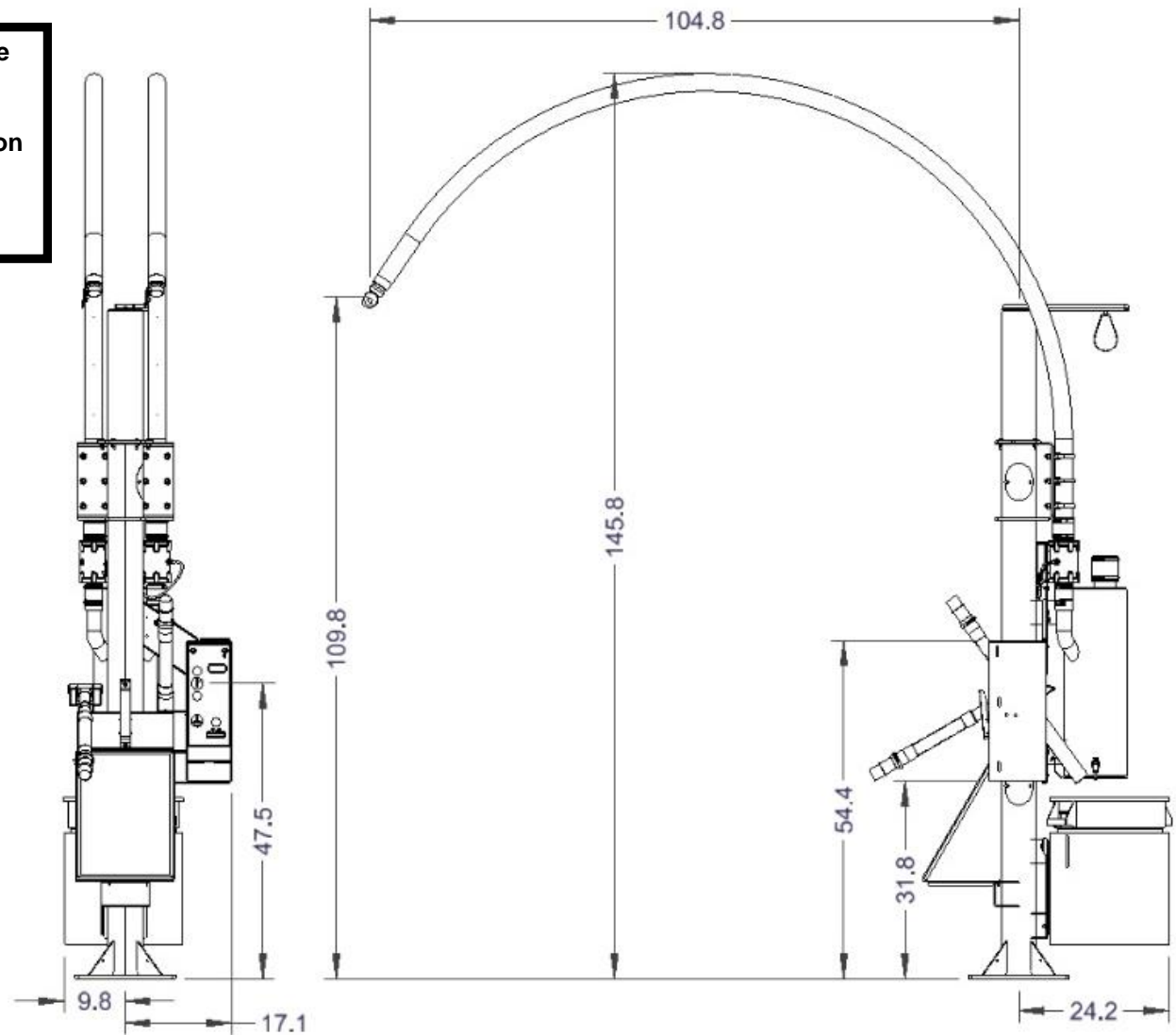
35000-400-4A (Control Box Assembly) 48 lbs

35000-400-20A (Face Plate Assembly) 14 lbs

9202-64A (Pre-Collector) 27 lbs.

Dimensions

NOTE: This manual covers only the Pay Central Vac system and is not intended to replace the standard install manual. Standard installation instructions must be followed in manual 35000-01_11 DUAL ARCH STANCHION.



Pre-Collector Considerations:

35000-11A and 35000-01A Central vacuum Stanchion assemblies made prior to May of 2020 came with 9202-60A version of Pre-Collectors. Unfortunately these are not compatible with valves used on the new Pay Central Vac System so the Pre-Collectors must be replaced with 9202-64A variations where customers are retrofitting older systems.



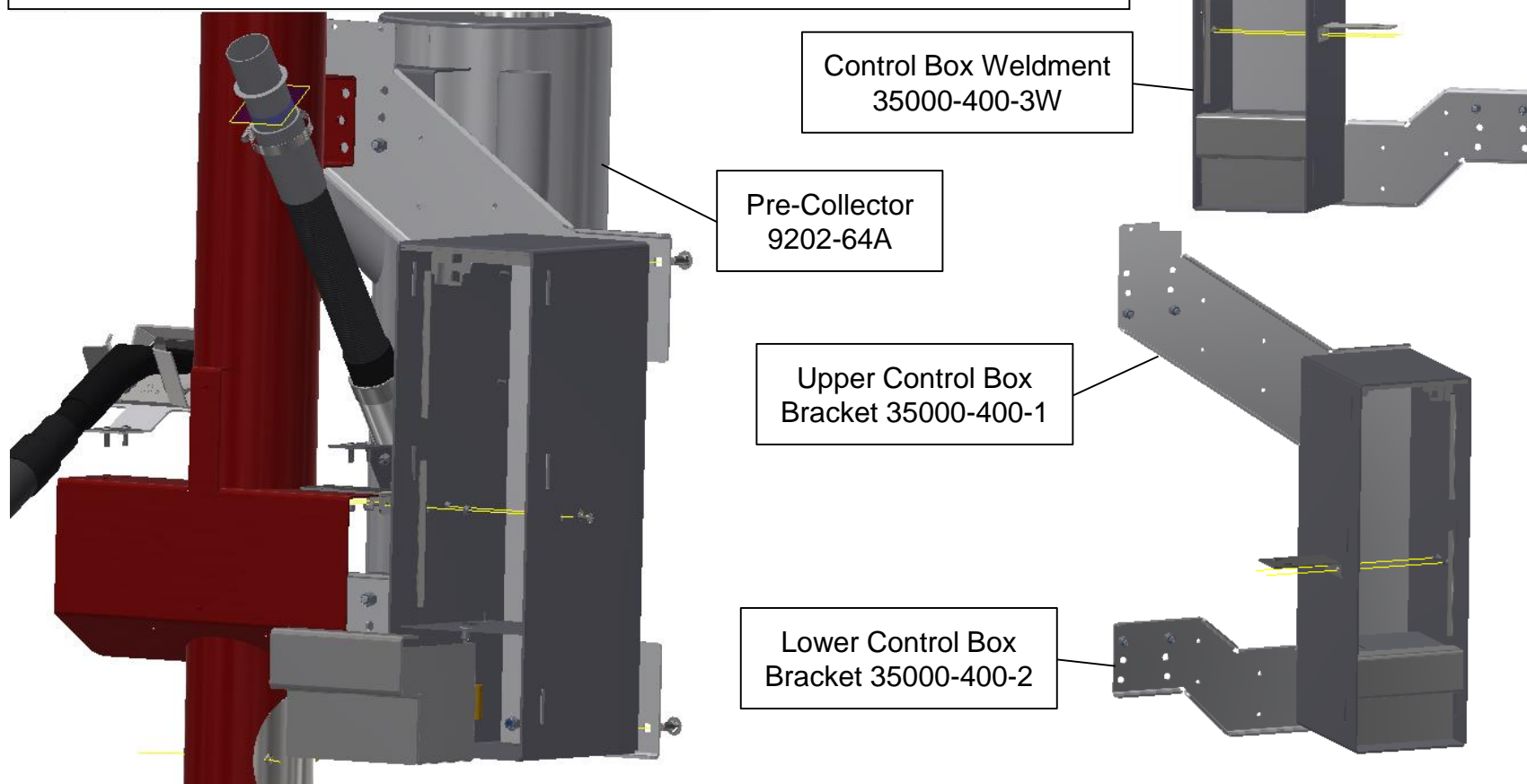
Pre-Collector
9202-60A
Prior to May 2020



Pre-Collector
9202-64A
Post May 2020

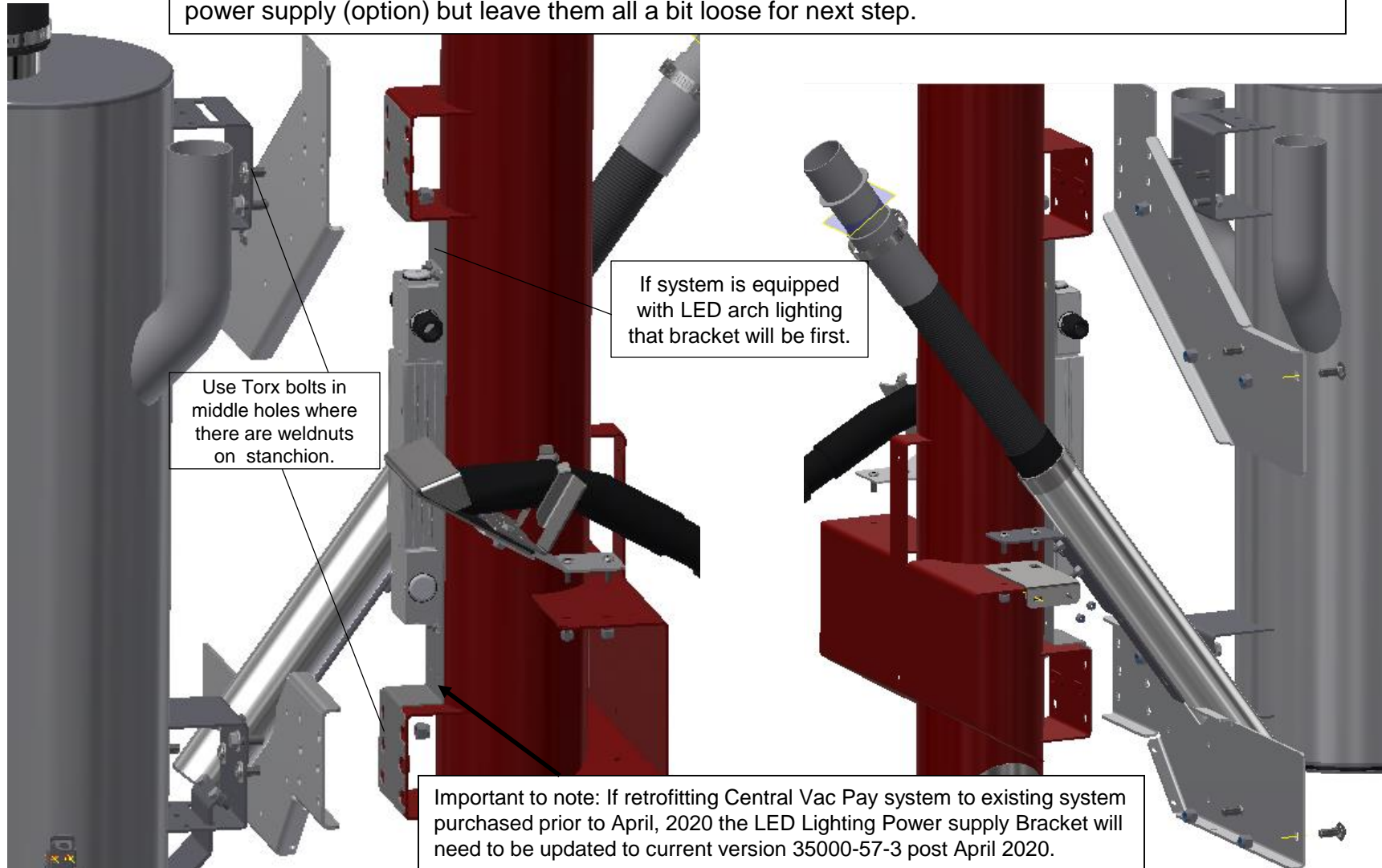
Control Box Install, 35000-400-4A:

The control box can be mounted on either the left or right side of post. Customer preference as to which side of the stanchion it is mounted. Same parts are used regardless of orientation of Control Box. In retrofit situations the swing out trash can 35000-140A is more difficult to remove with Control Box on left but still functional. Post May 2020 standard Central Vac systems come with bidirectional trash can unit. This step requires 2 people as there can be multiple items of some weight to hold in place while hardware is started. Hardware used are (4) 3/8" Torx security bolts and (4) 3/8" hex bolts with locknuts

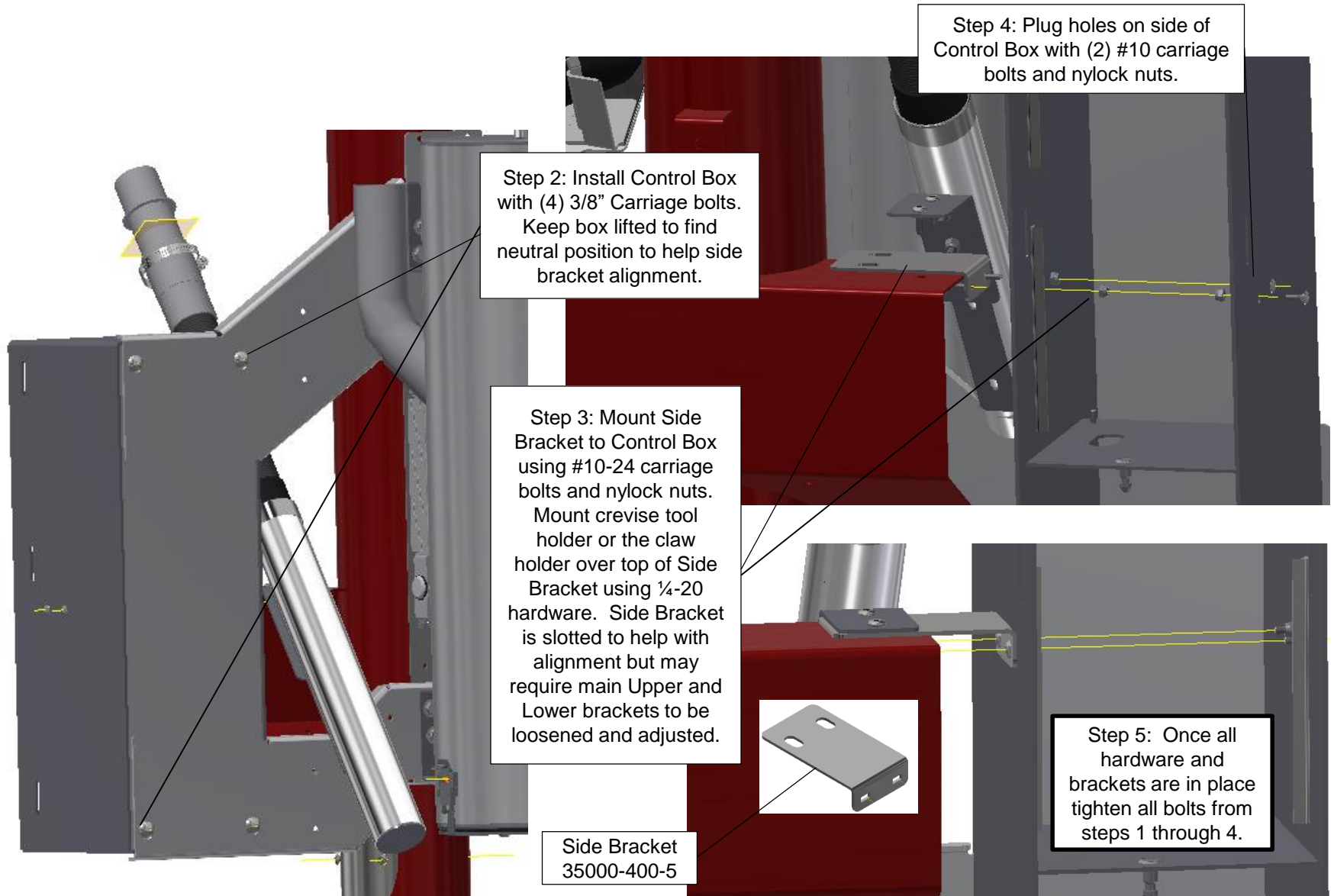


Control Box Install, 35000-400-4A continued:

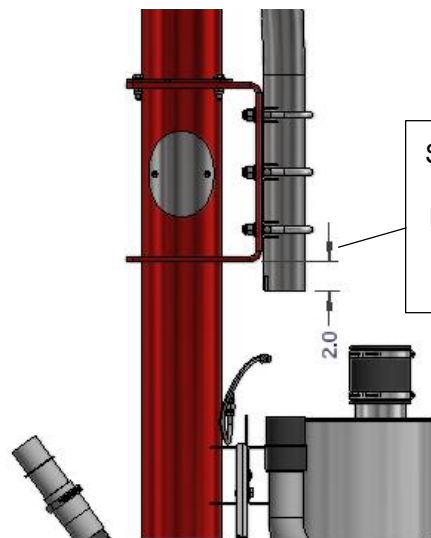
Step 1: Start assembly with just the upper and lower brackets, Pre-Collector and LED power supply & bracket (optional). Start all of the bolts to mount the pre-collector, upper & lower brackets and LED power supply (option) but leave them all a bit loose for next step.



Control Box Install, 35000-400-4A continued:



Solenoid & Valve Install 35000-400-2A:

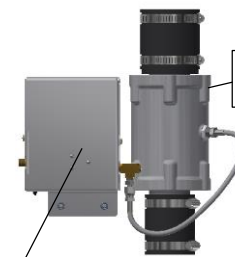


Step 6: Verify arch height position is 2.0" from bottom of arch to bottom of arch stanchion mounting plate.

Double Valve Asy
35000-400-2VA
Used with 2 arches



Single Valve Asy
35000-400-2VA-1
Used on left
single arch



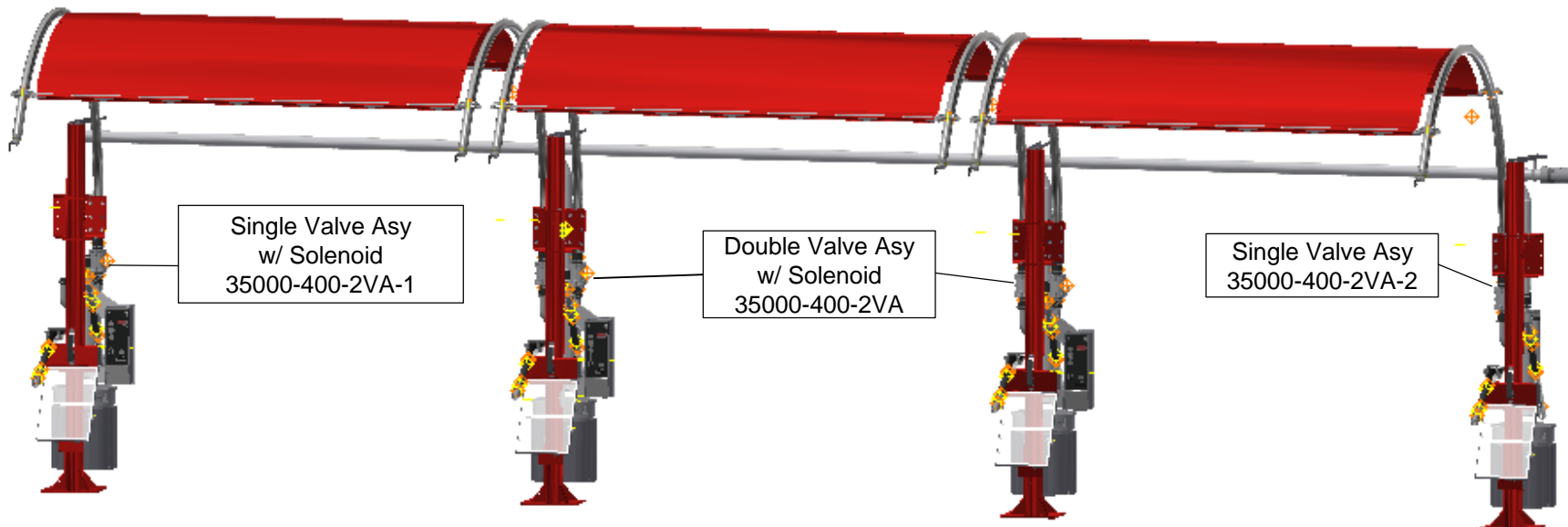
Single Valve Asy
35000-400-2VA-2
Used on right
single arch



Valve

Solenoid in
enclosure

Typical dual arch system (35000-11A with 35000-01A single arch ends) will require 3 different valve/ solenoid kits. The left most Stanchion with single arch will have (1) Valve and (1) Solenoid Controller. The inner Stanchions will have Dual Valve Asy at each Stanchion. The right end Stanchion will have a single valve assembly only.



Single Valve Asy
w/ Solenoid
35000-400-2VA-1

Double Valve Asy
w/ Solenoid
35000-400-2VA

Single Valve Asy
35000-400-2VA-2

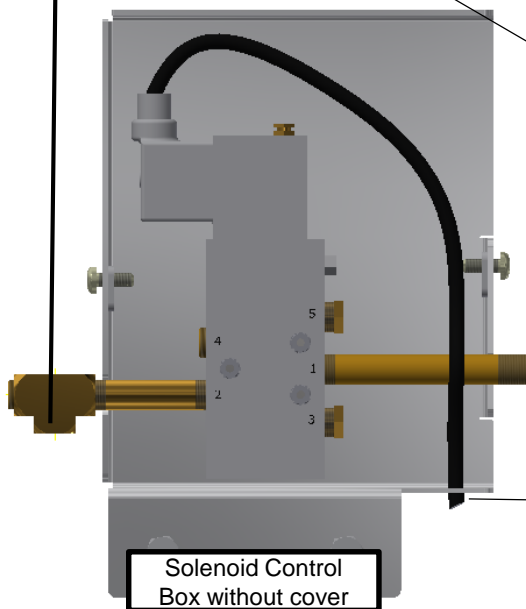
Solenoid & Valve Install Continued:

Step 7: Using teflon tape on threads assemble a 2.5" pipe nipple (8708-7) in each end of valve, leave about 1.75" exposed.



Step 8: Bolt Solenoid Valve assembly to top of Upper Control box Bracket using 1/4-20 Hex bolts & nylock nuts.

Step 11: Connect 18" supplied hose between solenoid and valve.



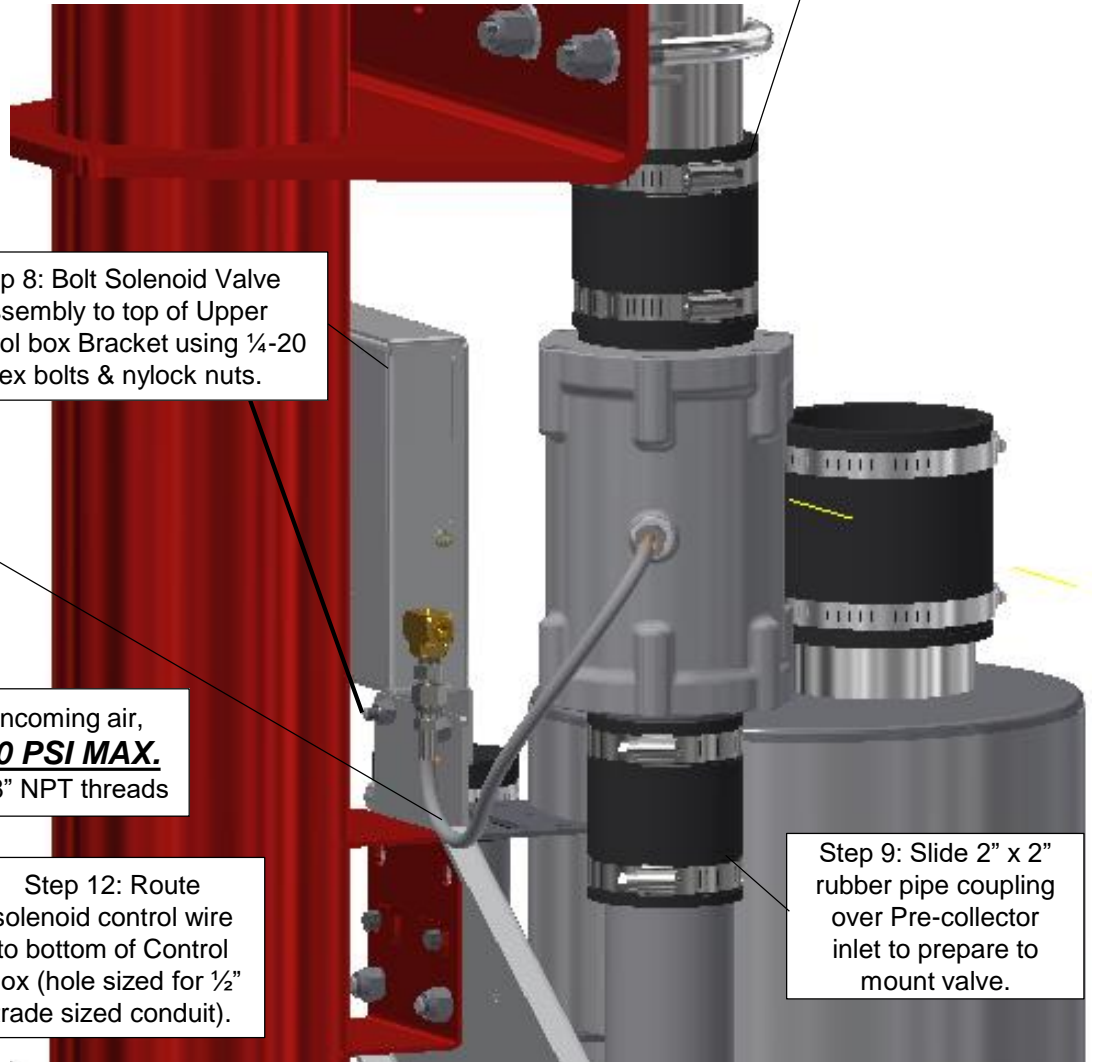
Solenoid Control Box without cover

Incoming air,
90 PSI MAX.
1/8" NPT threads

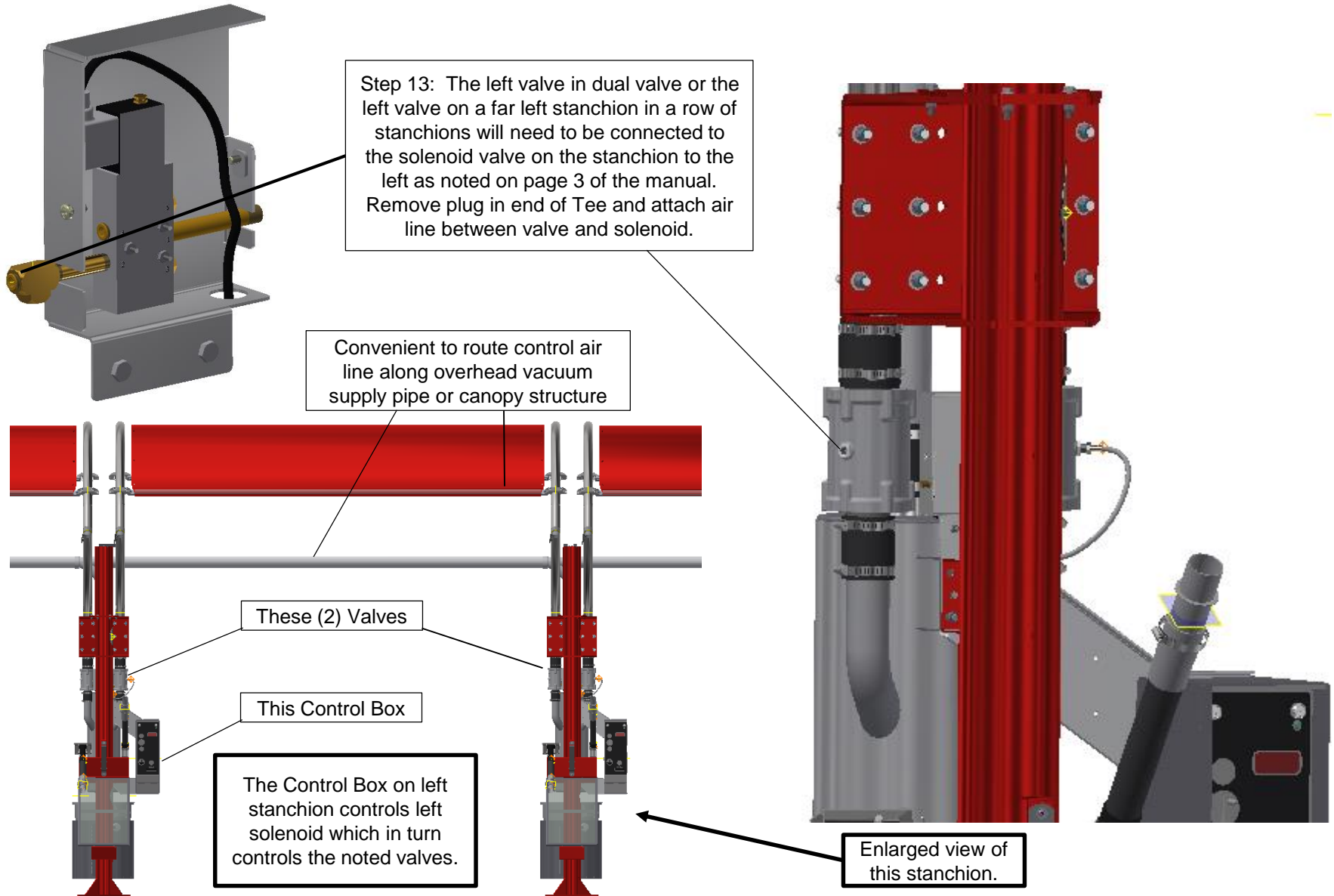
Step 12: Route solenoid control wire to bottom of Control Box (hole sized for 1/2" trade sized conduit).

Step 10: Mount valve to arch using 2.5" to 2" rubber pipe coupler.
Valve is not directional.

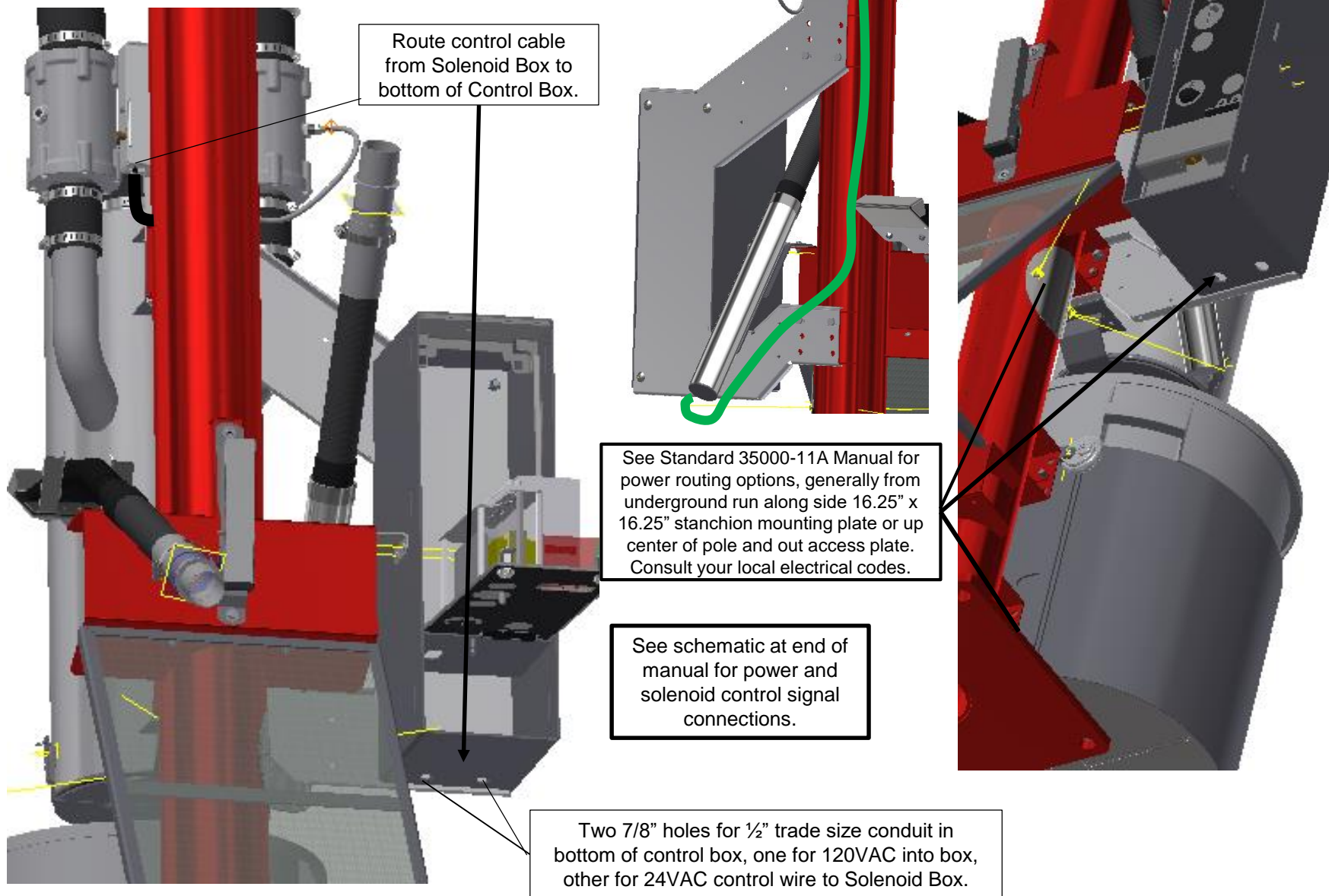
Step 9: Slide 2" x 2" rubber pipe coupling over Pre-collector inlet to prepare to mount valve.



Solenoid & Valve Install Continued:



Control/Faceplate/Power Installation:



Maintenance:

- Pre-collectors dirt bins must be emptied on a daily basis or as needed. Large particulate such as pens, coins, jewelry, bolts, etc. will be collected here.
- Gaskets on pre-collectors must be checked for wear once a week or as needed.
- Nuts and bolts on structure should be checked once a month or as needed.
- Fabric canopies should be taken down before severe weather situations.
- Powder coated parts will eventually wear over time. JE Adams offers touch up paint to keep your parts looking great.
- Stainless steel parts should be wiped/ cleaned as needed.
- Verify daily that system air pressure is not exceeding the operational maximum of 90 PSI

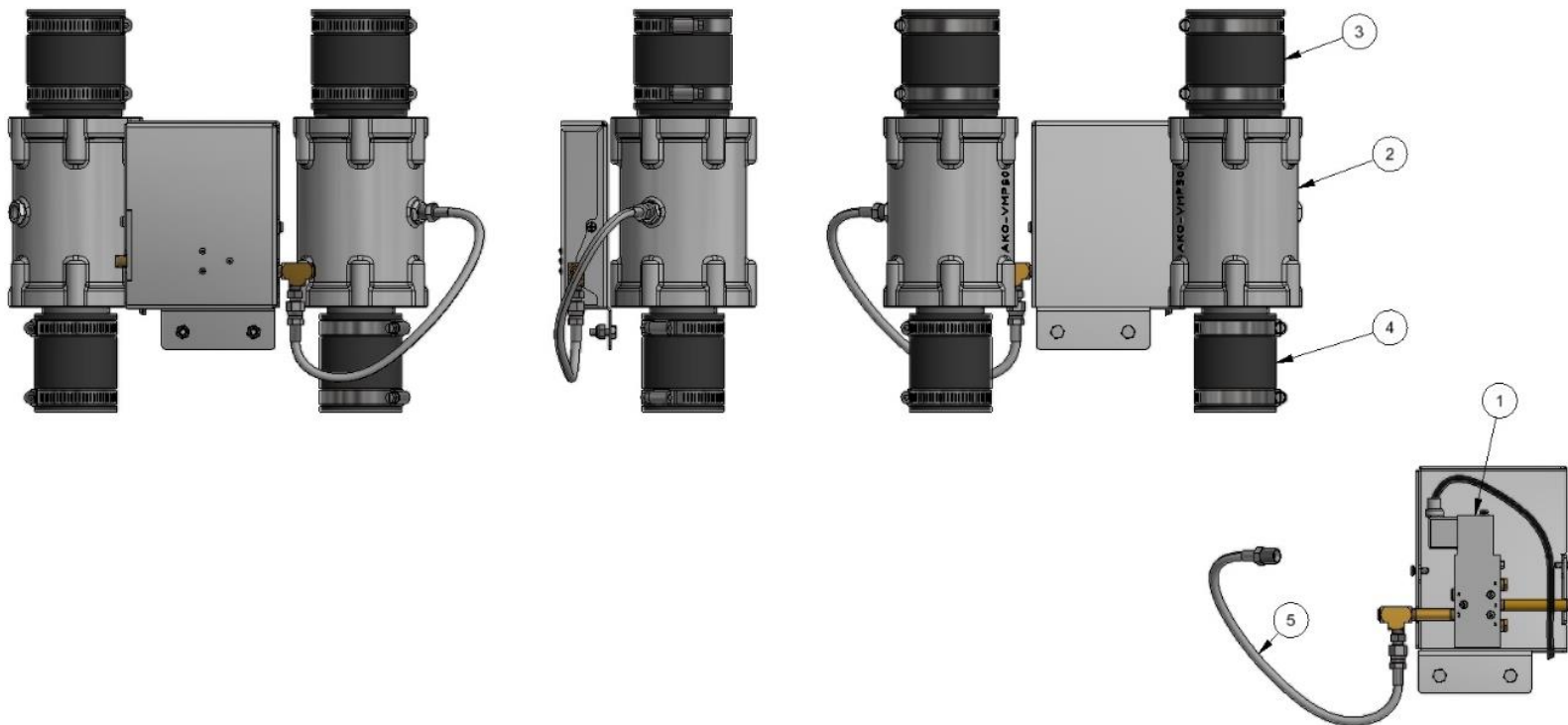
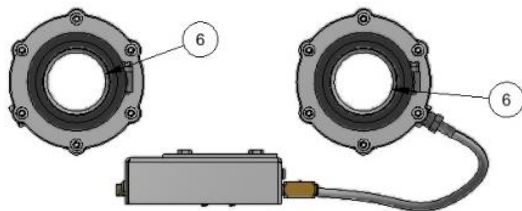
Operations:

- Valves in their off state have pressure on an internal bladder that keeps them from flowing vacuum pressure. When customer purchases time at a vacuum drop the solenoid allows the air pressure to bleed off the valve/s associated with that drop location thus allowing vacuum pressure at the hoses. It is best to operate valves at lowest pressure possible while still closing off majority of vacuum pressure (50 to 60 PSI) This will prolong life of valve and reduce stress on internal rubber bladder.
- ***When central vacuum system is deactivated (producer is powered down) it is vitally important that the supply pressure to valves is also disconnected at source and allowed to bleed off so valves remain in relaxed state during shut off. This will prevent bladders in valves from taking a set and not opening completely when in use.**
- System can become a free vend system again by simply removing supply air pressure at source and allow all valves to bleed off their pressure.

35000-400-2VA

NOTES:

1. VALVE CONTROL ASSEMBLY FOR 35000-11A SYSTEM, VERTICAL ARCH.



BILL OF MATERIALS

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---------------------------------------|-----|
| 1 | 35000-400-10A | AIR VALVE ASY, 2 VALVE, CV PAY | 1 |
| 2 | 35000-400-2V | VALVE, PINCH, 2" PLASTIC BODY | 2 |
| 3 | 35000-400-30 | COUPLER, RUBBER, 2" PIPE TO 2.5" PIPE | 2 |
| 4 | 35000-400-32 | COUPLING, RUBBER, 2" PIPE | 2 |
| 5 | 35000-400-34 | HOSE ASY, CV PAY AIR, 18" | 1 |
| 6 | 8708-3 | PIPE NIPPLE- 2"-11 1/2 NPT x 2" | 4 |

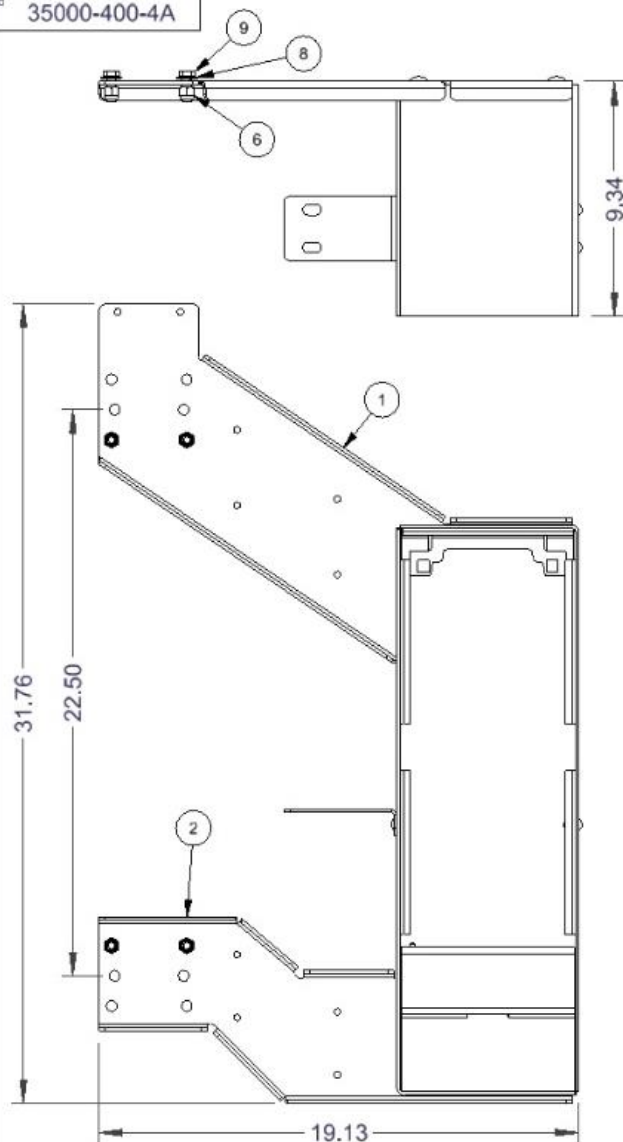
| | | | | |
|-----|------|-------------|---------|-----|
| - | 8566 | RELEASED | 4/20/20 | MWS |
| REV | NO. | DESCRIPTION | DATE | BY |

| | | | |
|--------------------------------------|--|------------------------------|--|
| TITLE: CV PAY, 2 VERT ARCH VALVE ASY | | MATERIAL: CEDAR RAPIDS, IOWA | |
| UNSPECIFIED TOLERANCES | | DRAWN BY: MWS | |
| 1 PL ±.030 | | DATE: 2/28/2020 | |
| 2 PL ±.020 | | SCALE: 0.17 : 1 | |
| 3 PL ±.003 | | SHEET: 1 / 1 | |
| ANGLE ± 1° | | PART NO: 35000-400-2VA | |
| | | REV: - | |

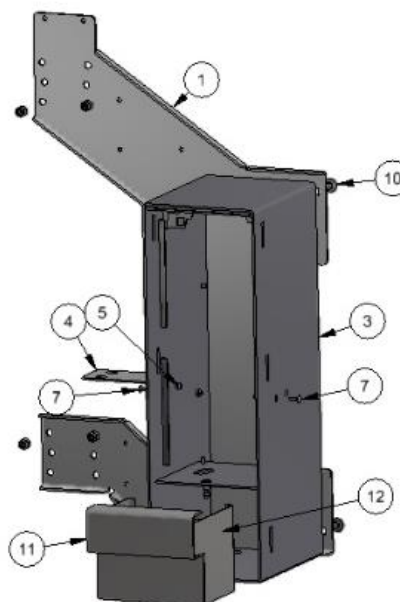
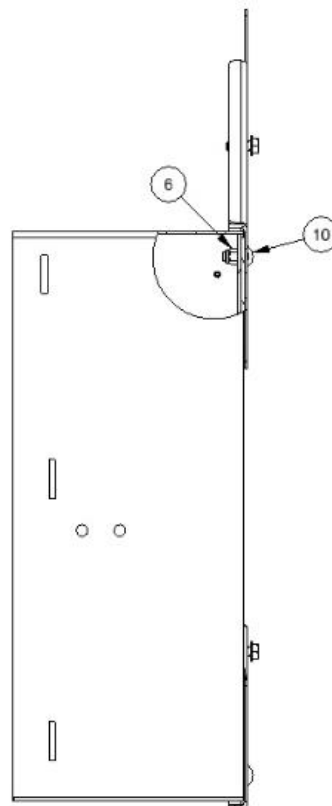
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35000-400-4A



NOTES:
1. PACKAGE ALL HARDWARE IN BAG.
2. UNIT WILL NORMALLY SHIP WITH FACE
PLATE ASSEMBLY INSTALLED IN ITEM 3

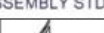


BILL OF MATERIALS

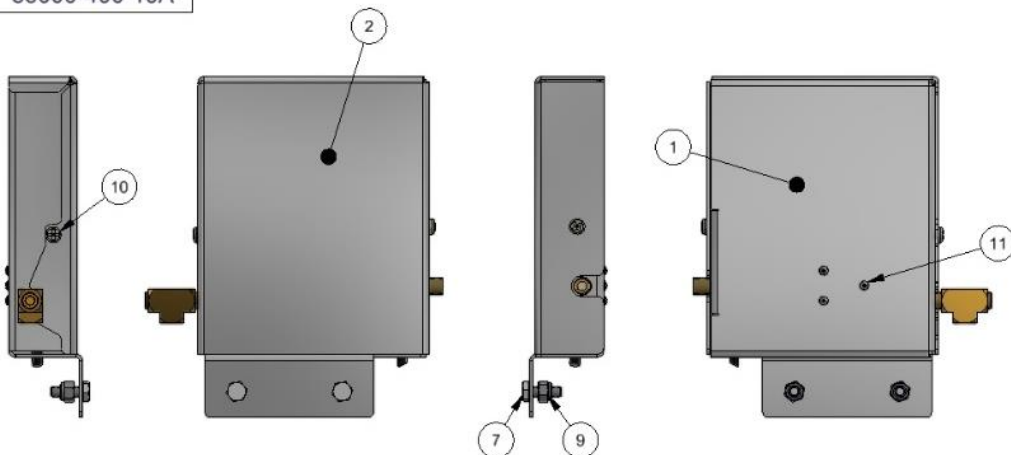
| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|--------------|-------------------------------|-----|
| 1 | 35000-400-1 | BRKT, UPPER SPRT, CV PAY MNT | 1 |
| 2 | 35000-400-2 | BRKT, LOWER SPRT, CV PAY UNIT | 1 |
| 3 | 35000-400-3W | CONTROL BOX WLDMNT, CV PAY | 1 |
| 4 | 35000-400-5 | BRKT, CV PAY BOX SUPRT | 1 |
| 5 | 5603D1 | 10-24 Std NC Nylock Nut | 4 |
| 6 | 5603D3 | 3/8-16 Std NC Nylock Nut | 8 |
| 7 | 5604D1 | #10-24 x 1/2 CARR BOLT | 4 |
| 8 | 5606D31 | WASHER, FLAT 3/8" SAE, SS | 4 |
| 9 | 5622D1 | 3/8-16 UNC x 1 CAP SCREW | 4 |
| 10 | 5632D9 | BOLT, 3/8-16 X 1.0" CH, SS | 4 |
| 11 | 8204RW | COIN BOX, PIN LOCK WELDMNT | 1 |
| 12 | 8638 | PIN LOCK | 1 |

| | | | | |
|-----|------|-------------|---------|-----|
| REV | 8566 | RELEASED | 4/20/20 | MWS |
| NO. | | DESCRIPTION | DATE | BY |

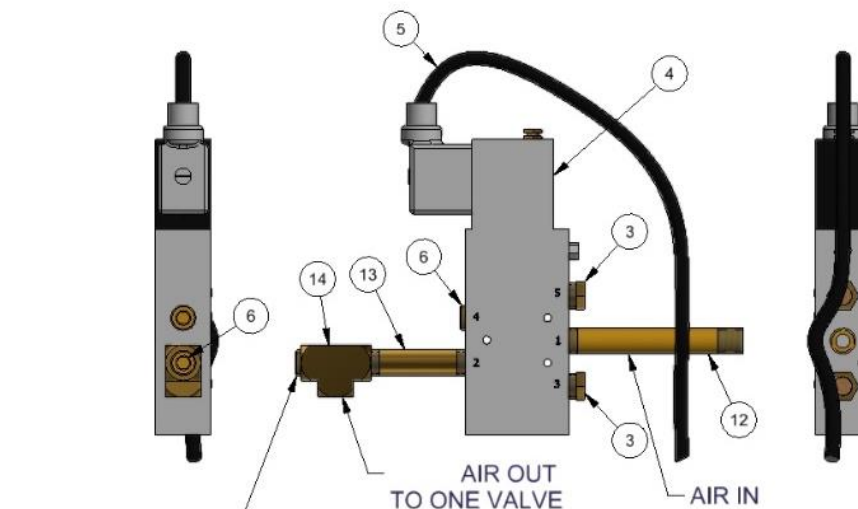
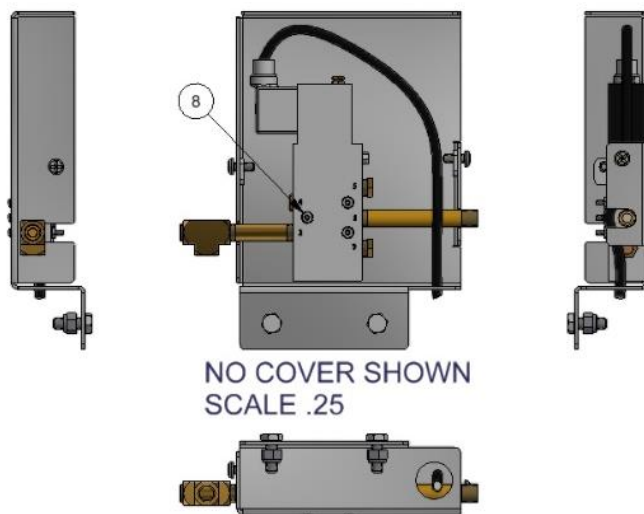
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| | | | | | |
|--|--|--------------------------|--|--|--|
| TITLE | | CV PAY BOX ASSEMBLY STD. | | | |
| UNSPECIFIED TOLERANCES 1 PL ±.030 2 PL ±.020 3 PL ±.003 ANGLE ± 1° | | MATERIAL | |  CEDAR RAPIDS, IOWA J.E. ADAMS MANUFACTURING, LTD. | |
| | | DRAWING BY | | | |
| | | DATE | | | |
| | | SCALE | | | |
| | | SHEET | | | |
| | | .15 | | 1 / 1 | |
| | | | | PART NO. 35000-400-4A | |
| | | | | REV. | |





| BILL OF MATERIALS | | | |
|-------------------|---------------|---------------------------------|-----|
| ITEM | PART NUMBER | DESCRIPTION | QTY |
| 1 | 35000-400-10W | BRKT, WELD, VALVE MNT, CV PAY | 1 |
| 2 | 35000-400-11W | COVER, WELD, VALVE, CV PAY | 1 |
| 3 | 35000-400-33 | FITTING BREATHER, 1/8 NPT BRASS | 2 |
| 4 | 35000-400-V24 | VALVE, SOLENOID, 5 PORT 24VAC | 1 |
| 5 | 35000-400-VC | CORD, 80", NUMATICS VALVE | 1 |
| 6 | 5043 | PLUG, 1/8" NPT | 2 |
| 7 | 5601D4 | 1/4-20 x 3/4 HHCS-SS | 2 |
| 8 | 5603D15 | NUT, 4-40 UNC KEPS | 3 |
| 9 | 5603D2 | 1/4-20 NYLOCK NUT, SS | 2 |
| 10 | 5636D1 | SCREW, #10-24 X .50, PH, PD, SS | 2 |
| 11 | 5666D20 | SCREW, #4-40X1.25, PH, PD, SS | 3 |
| 12 | 5809D17 | 1/8 NPT X 3" NIPPLE, BRASS | 1 |
| 13 | 5809D18 | NIPPLE, 1/8 NPT X 2.0", BRASS | 1 |
| 14 | 5813D4 | FITTING, TEE, 1/8 FNPT, BRASS | 1 |



IF CONTROLLING
TWO VALVES
REMOVE PLUG AND
CONNECT 2ND VALVE

VALVE PLUMBING:
PORT 1: INCOMING PRESSURE 45-90PSI MAX
PORT 2: CONTROLLED AIR OUT TO VALVES
PORT 3: NOT USED (BREATHER)
PORT 4: MUST BE PLUGGED
PORT 5: NOT USED (BREATHER)

| | | | | |
|-----|------|-------------|---------|-----|
| - | 8566 | RELEASED | 4/20/20 | MWS |
| REV | NO. | DESCRIPTION | DATE | BY |

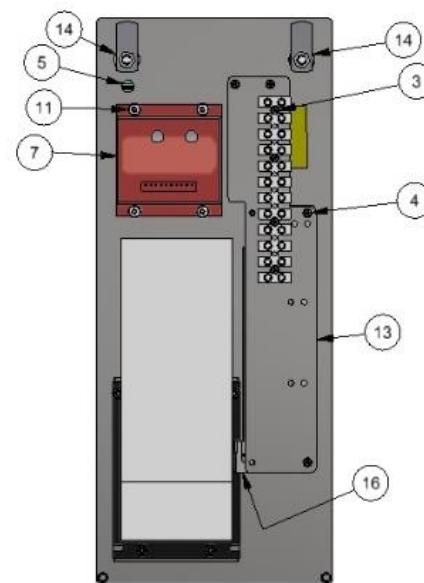
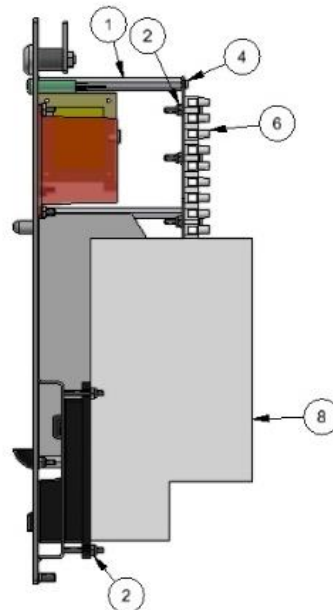
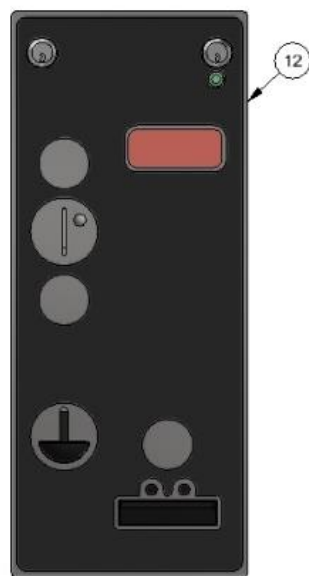
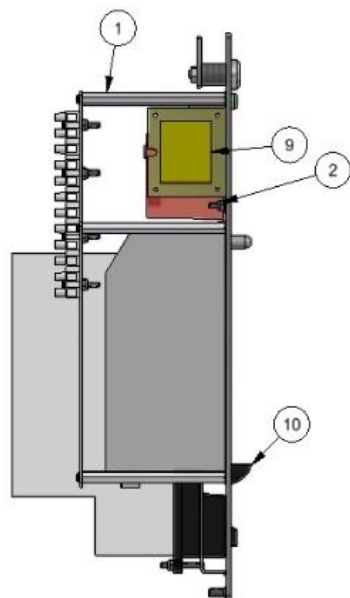
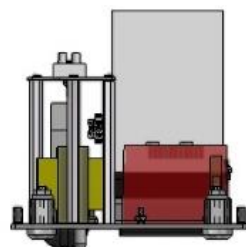
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| | | | |
|------------------------|----------|--------------------------------|---------------|
| TITLE | | AIR VALVE ASY, 2 VALVE, CV PAY | |
| UNSPECIFIED TOLERANCES | DATE | BY | DATE |
| 1 PL ±.030 | 3/9/2020 | MWS | 3/9/2020 |
| 2 PL ±.020 | SCALE | SHEET | PART NO |
| 3 PL ±.003 | .25 | 1 / 1 | 35000-400-10A |
| ANGLE ± 1° | | | REV. - |



NOTES:

1. SEE S35000-400-20A SCHEMATIC FOR WIRING DIRECTION.



| BILL OF MATERIALS | | | |
|-------------------|--------------|---|-----|
| ITEM | PART NUMBER | DESCRIPTION | QTY |
| 1 | 5000D5 | STAND-OFF, 6-32 | 4 |
| 2 | 5603D10 | NUT NYLOCK, #6-32, SS | 11 |
| 3 | 5627D1 | 6-32 x 1.0 PHIL. PAN -MACHINE SCREW | 4 |
| 4 | 5662D2 | 6-32 x 1/2 PHIL. PAN -MACHINE SCREW | 4 |
| 5 | 5913D8 | LAMP, PANEL MT-3/8, 12V,LED, GRN | 1 |
| 6 | 5944D001 | TERMINAL STRIP, 12 POLES, 8AWG MAX | 1 |
| 7 | 8000-10 | DIXMOR DSPY TIMER, LED7 SINGLE FUNCTION | 1 |
| 8 | 8130-6 | MEI MARS, 110V BILL VALIDATOR | 1 |
| 9 | 8131-2 | TRANSFORMER, 110/220-24 1.66A | 1 |
| 10 | 8149 | IMONEX COIN ACCEPTOR | 1 |
| 11 | 8157 | NUT, #6-32 KEPP NUT STAINLESS | 4 |
| 12 | 8900-7VW | FACEPLATE WELDMENT, W/VALI | 1 |
| 13 | 8900-82 | TERMINAL BRACKET, VAC-SCENT | 1 |
| 14 | 8953 | MEDECO CAM LOCK W/2 KEYS | 2 |
| 15 | 9200-1D-1-10 | DECAL, FACEPLATE | 1 |
| 16 | 9500-56 | CABLE ASY, BILL ACCEPTOR, 30" EXT. | 1 |

| | | | | |
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| - | 8566 | RELEASED | 4/20/20 | MWS |
| REV | NO. | DESCRIPTION | DATE | BY |

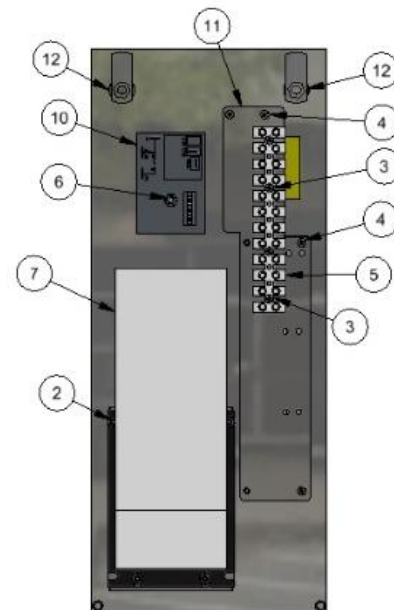
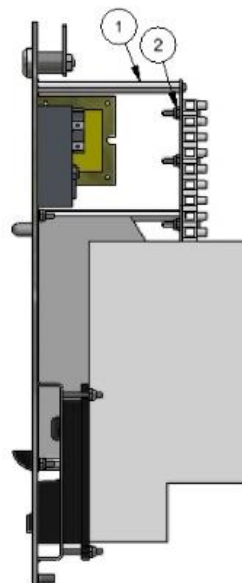
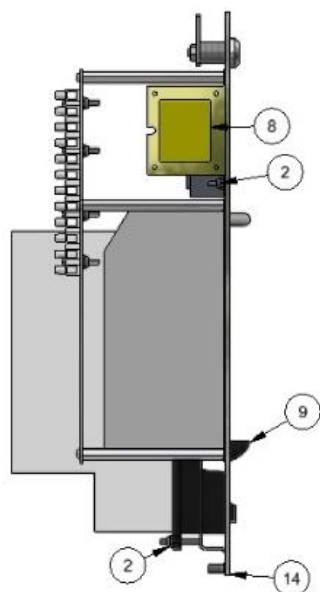
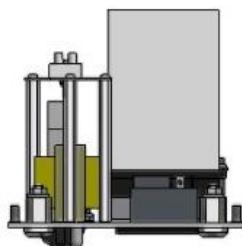
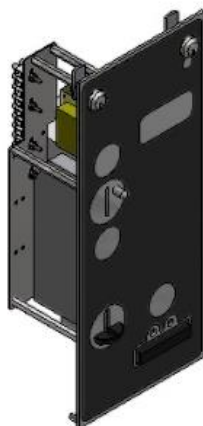
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| TITLE | | | |
|------------------------------------|----------|--------------------|---------------|
| FACEPLATE ASY, CV PAY, CM, V, LED7 | | | |
| UNSPECIFIED TOLERANCES | MATERIAL | CEDAR RAPIDS, IOWA | |
| 1 PL ± .030 | DRAWN BY | MIKE S | |
| 2 PL ± .020 | DATE | 11/18/2019 | |
| 3 PL ± .003 | SCALE | SHEET | PART NO. |
| ANGLE ± 1° | .2 | 1 / 1 | 35000-400-20A |
| | | | REV. |
| | | | - |

35000-400-21A

NOTES:

1. SEE SCHEMATIC S35000-400-21A FOR WIRING DETAILS.



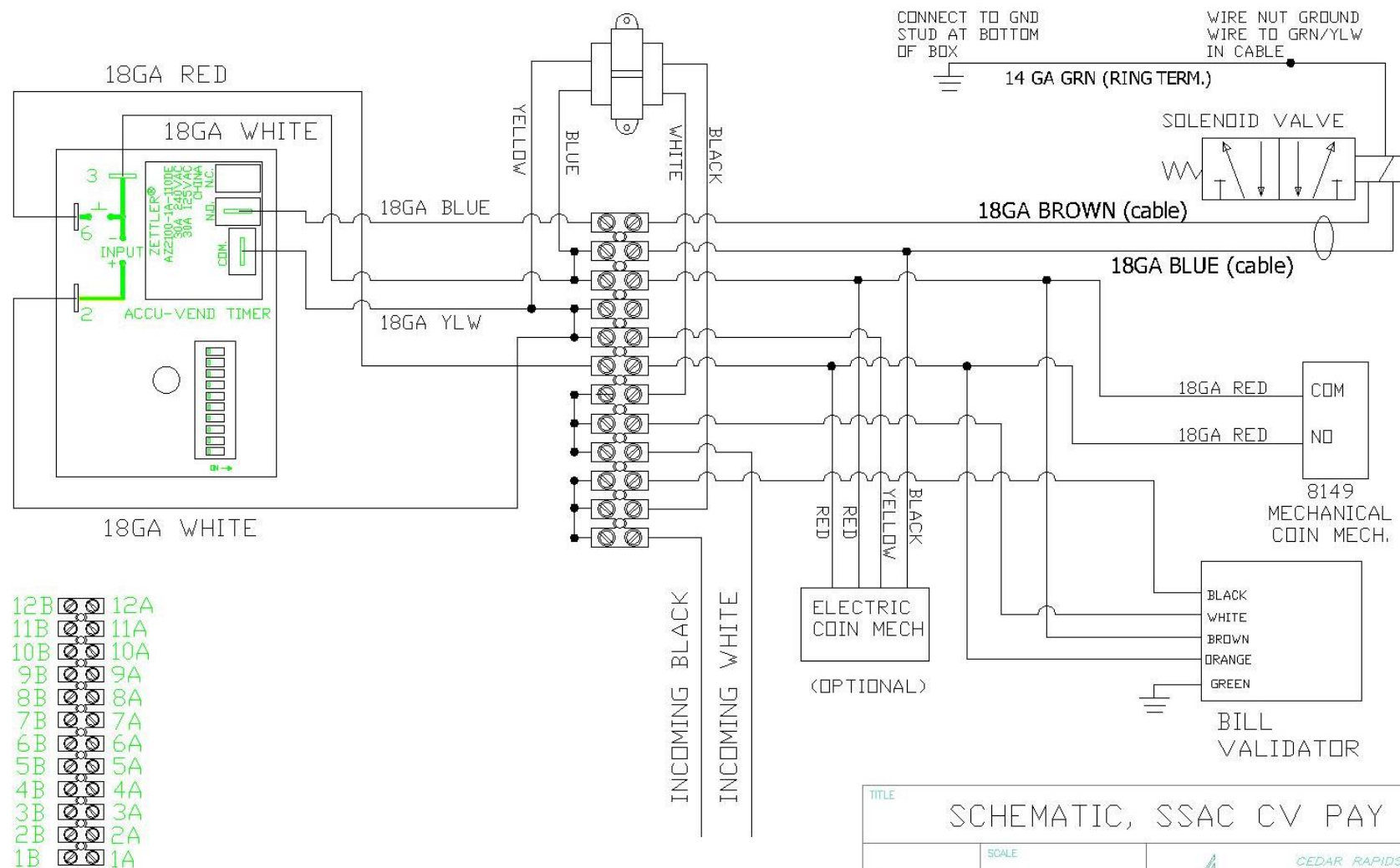
| BILL OF MATERIALS | | | |
|-------------------|--------------|-------------------------------------|-----|
| ITEM | PART NUMBER | DESCRIPTION | QTY |
| 1 | 5000D5 | STAND-OFF, 6-32 | 4 |
| 2 | 5603D10 | NUT NYLOCK, #6-32, SS | 11 |
| 3 | 5627D1 | 6-32 x 1.0 PHIL. PAN -MACHINE SCREW | 4 |
| 4 | 5662D2 | 6-32 x 1/2 PHIL. PAN -MACHINE SCREW | 4 |
| 5 | 5944D001 | TERMINAL STRIP, 12 POLES, BAWG MAX | 1 |
| 6 | 8045 | 8-32 NYLOCK NUT | 1 |
| 7 | 8130-6 | MEI MARS, 110V BILL VALIDATOR | 1 |
| 8 | 8131-2 | TRANSFORMER, 110/220-24 1.66A | 1 |
| 9 | 8149 | IMONEX COIN ACCEPTOR | 1 |
| 10 | 8712SS4 | SSAC TIMER, 24-240VAC, ACCUMULATING | 1 |
| 11 | 8900-82 | TERMINAL BRACKET, VAC-SCENT | 1 |
| 12 | 8953 | MEDECO CAM LOCK W/2 KEYS | 2 |
| 13 | 9200-1D-1-10 | DECAL, FACEPLATE | 1 |
| 14 | 9209-2W | FACEPLATE WELDMENT, SHAMPOO | 1 |


| | | | | |
|---|------|-------------|---------|-----|
| - | 8566 | RELEASED | 4/20/20 | MWS |
| REV | NO. | DESCRIPTION | DATE | BY |
| THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION THEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY J.E. ADAMS INDUSTRIES | | | | |

| | | | |
|------------------------|----------|--------------------|------|
| TITLE | | | |
| FACEPLT ASY,CV,SSAC,V | | | |
| UNSPECIFIED TOLERANCES | EXTENDED | CEDAR RAPIDS, IOWA | |
| 1 PL ±.030 | WORK BY | ITWS | |
| 2 PL ±.020 | DATE | 1/24/2020 | |
| 3 PL ±.003 | SCALE | 1 / 1 | |
| ANGLE ± 1° | SHEET | 35000-400-21A | |
| PART NO | | | REV. |
| | | | - |

| ITEM NO. | PART NO. | DESCRIPTION | QTY. |
|----------|----------|-------------|------|
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NOTE: FIELD WIRING MUST COMPLY WITH LOCAL AND NATIONAL ELECTRICAL CODES.



| | | | | | | | |
|---|--|----------------|--|--|--|------|--|
| TITLE | | | | SCHEMATIC, SSAC CV PAY | | | |
| UNSPECIFIED TOLERANCES FRACT. $\pm 1/32$ 2 PL ± 0.020 3 PL ± 0.010 ANGLE $\pm 1.0^\circ$ | | SCALE | |  CEDAR RAPIDS, IOWA | | | |
| | | DRAWN BY MWS | | | | | |
| | | DATE 1/20 | | PART NO. | | REV. | |
| | | REL. FOR PROD. | | S35000-400-21A | | - | |

| | | | |
|-----|------|-------------|------------|
| - | 8566 | RELEASED | 4/20/20MWS |
| REV | NO. | DESCRIPTION | DATE BY |