

ClassicSeries® Wet-Ring Vacuums



Single Model Numbers:

**CV3
CV3R
CV5
CV5R**

Twin Model Numbers:

**CV6
CV6R
CV10
CV10R**

Service and
Parts Manual



FOR USE BY MIDMARK TRAINED TECHNICIANS ONLY

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Symbols



DANGER

*Indicates an imminently hazardous situation which **will** result in serious or fatal injury if not avoided. This symbol is used only in the most extreme conditions.*



WARNING

*Indicates a potentially hazardous situation which **could** result in serious injury if not avoided.*



CAUTION

*Indicates a potentially hazardous situation which **may** result in minor or moderate injury if not avoided. It may also be used to alert against unsafe practices.*



Equipment Alert

Indicates a potentially hazardous situation which could result in equipment damage if not avoided.



In Section A, test the components in the order indicated. (ex. 1st ✓ then, 2nd ✓)

Refer to Section B for component testing procedures.

The symbols below may be used in this manual to represent the operational status of table functions and components.



Indicates the function / component is working properly. No action required.



Indicates the function / component is working, but a problem exists.



Indicates the function / component is not working at all.

Ordering Parts

The following information is required when ordering parts:

- Serial number & model number
- Part number for desired part.

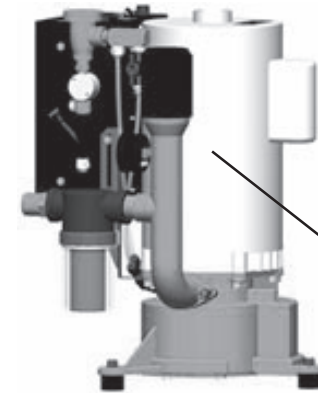
[Refer to Exploded Views / Parts Lists section]

Non-warranty parts orders may be faxed to Midmark using the Fax Order Form in the back of this manual.

For warranty parts orders, call Midmark's Service Department with the required information.

Customer Service: 1-800-643-6275

Technical Service: 1-888-279-1260

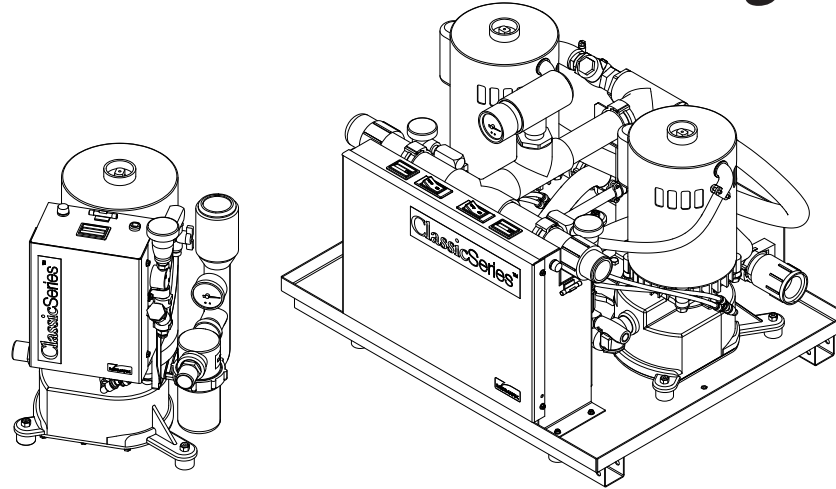


**Serial / Model
Number Location**

General Information

Weights, Dimensions, Electrical Specifications

ClassicSeries® Wet-Ring Vacuums



AA186600

Vacuum Model	Max. Users	Width (IN.)	Depth (IN.)	Height (IN.)	Weight (LBS.)	Total HP	Voltage (50/60 Hertz)	Breaker Size per Pump (Amps)	Inlet Connection Size (IN.)	Drain Connection Size (IN.)	Fresh Water Connection Size (FNPT)
CV3	3	12"	13"	15"	54	1 1/4	115 / 208-230	20	1"	1"	1/2"
CV3R	3	12"	13"	15"	56	1 1/4	115 / 208-230	20	1"	1"	1/2"
CV5	5	12"	13"	17"	63	2	208-230	20	1"	1"	1/2"
CV5R	5	12"	13"	17"	65	2	208-230	20	1"	1"	1/2"
CV6	6	25 1/2"	20"	18 1/2"	134	2 1/2	115 / 208-230	20	1 1/4"	1 1/4"	1/2"
CV6R	6	25 1/2"	20"	18 1/2"	134	2 1/2	115 / 208-230	20	1 1/4"	1 1/4"	1/2"
CV10	10	25 1/2"	20"	18 1/2"	154	4	208-230	20	1 1/4"	1 1/4"	1/2"
CV10R	10	25 1/2"	20"	18 1/2"	154	4	208-230	20	1 1/4"	1 1/4"	1/2"

General Information

Model Identification / Compliance Chart

Model	Description	Complies To:		Electrical Supply Requirements:		
		UL 60601-1	CAN/CSA 22.2, #601.1-M90	VAC	Amps	Cycles (Hz)
CV3	ClassicSeries Wet-Ring Vacuum 3 User	X	X	Configurable		
				115	15	60
				208 / 230	8.2 / 7.5	60
				208 / 230	8.2 / 8.1	50
CV3R	ClassicSeries Wet-Ring Vacuum Recycler 3 User	X	X	Configurable		
				115	15	60
				208 / 230	8.2 / 7.5	60
				208 / 230	8.2 / 8.1	50
CV5	ClassicSeries Wet-Ring Vacuum 5 User	X	X	Configurable		
				208-230	13.1 / 11.9	60
				208-230	11.2 / 11.1	50
CV5R	ClassicSeries Wet-Ring Vacuum Recycler 5 User	X	X	Configurable		
				208-230	13.1 / 11.9	60
				208-230	11.2 / 11.1	50
CV6	ClassicSeries Wet-Ring Vacuum 6 User	X	X	Configurable (per pump)		
				115	15	60
				208 / 230	8.2 / 7.5	60
				208 / 230	8.2 / 8.1	50
CV6R	ClassicSeries Wet-Ring Vacuum Recycler 6 User	X	X	Configurable (per pump)		
				115	15	60
				208 / 230	8.2 / 7.5	60
				208 / 230	8.2 / 8.1	50
CV10	ClassicSeries Wet-Ring Vacuum 10 User	X	X	Configurable (per pump)		
				208 / 230	13.1 / 11.9	60
				208 / 230	11.2 / 11.1	50
CV10R	ClassicSeries Wet-Ring Vacuum Recycler 10 User	X	X	Configurable (per pump)		
				208 / 230	13.1 / 11.9	60
				208 / 230	11.2 / 11.1	50

General Information

LIMITED WARRANTY

SCOPE OF WARRANTY

Midmark Corporation (“Midmark”) warrants to the original retail purchaser that it will repair or replace components of the domestic and international air compressor and vacuum products manufactured by Midmark (except for components not warranted under “Exclusions”) that are defective in material or workmanship under normal use and service. Midmark’s obligation under this warranty is limited to the repair or replacement, at Midmark’s option, of the applicable components. This limited warranty shall only apply to defects that are reported to Midmark within the applicable warranty period and which, upon examination by Midmark, prove to be defective. This warranty extends only to the first retail purchaser of a product, and is not transferable or assignable.

APPLICABLE WARRANTY PERIOD

The applicable warranty period, measured from the date of delivery to the original user, shall be as follows:

- (1) PowerAir® oil-less compressors – Five (5) years or 3,500 hours of use, whichever occurs first.
- (2) PowerVac® dry vacuums – Five (5) years or 10,000 hours of use, whichever occurs first (except that the vacuum pump warranty term is ten (10) years or 20,000 hours of use, whichever occurs first).
- (3) PowerVac® G dry vacuums – Five (5) years or 10,000 hours of use, whichever occurs first (except that the vacuum pump warranty term is ten (10) years or 20,000 hours of use, whichever occurs first).
- (4) Classic Series® wet-ring vacuums – Five (5) years or 10,000 hours of use, whichever occurs first.
- (5) PowerMax surgical suction – Two (2) years.

OBTAINING WARRANTY SERVICE

Warranty service must be obtained through either Midmark or an authorized dealer in the Midmark product line for which warranty service is requested. Midmark may be contacted for warranty service inquiries or issues via email at www.midmark.com, by phone at 1-800-MIDMARK, by facsimile at 1-877-725-6495, or by mail to Midmark Corporation, 60 Vista Drive, P O Box 86, Versailles, Ohio 45380. It is the retail purchaser’s obligation to arrange for delivery of a product to Midmark or one of its authorized dealers for warranty service, which delivery shall be at retail purchaser’s expense. It is also the retail purchaser’s obligation to comply with the warranty service instructions provided either by Midmark or its authorized dealer. The retail purchaser must provide Midmark with completed warranty registration information within thirty (30) days after purchase in order to obtain the benefits of this warranty.

EXCLUSIONS

This warranty does not cover and Midmark shall not be liable for the following:

- (1) defects, damage, or other conditions caused, in whole or in part, by misuse, abuse, negligence, alteration, accident, freight damage, tampering, or failure to seek and obtain repair or replacement in a timely manner;
- (2) products which are not installed, used, and properly cleaned and maintained as required in the Midmark “Installation” and/or “Installation/Operation Manual” for the applicable product;
- (3) products considered to be of a consumable nature;
- (4) accessories or parts not manufactured by Midmark;
- (5) plastic, rubber, and other disposable parts, unless the defect is discovered at the time of delivery and disclosed to Midmark within five (5) days thereafter;
- (6) charges by anyone for adjustments, repairs, replacement parts, installation, or other work performed upon or in connection with such products which are not expressly authorized in writing in advance by Midmark;
- (7) costs and expenses of routine maintenance and cleaning; and
- (8) representations and warranties made by any person or entity other than Midmark.

EXCLUSIVE REMEDY; CONSEQUENTIAL DAMAGES DISCLAIMER, MIDMARK’S ONLY OBLIGATION UNDER THIS WARRANTY IS THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS. MIDMARK SHALL NOT BE LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, SPECIAL, INDIRECT, INCIDENTAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES OR DELAYS, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFITS OR INCOME, LOSS OF USE, DOWNTIME, COVER, AND EMPLOYEE OR INDEPENDENT CONTRACTOR WAGES, PAYMENTS, AND BENEFITS.

NO AUTHORIZATION

No person or firm is authorized to create or approve for Midmark any other obligation or liability in connection with the products.

WARRANTY DISCLAIMER

THIS WARRANTY IS MIDMARK’S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. MIDMARK MAKES NO IMPLIED WARRANTIES OF ANY KIND INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS.

STATUTE OF LIMITATIONS

No action may be brought against Midmark for breach of this limited warranty, an implied warranty, if any, or for any other claim arising out of or relating to the products, more than ninety (90) days following expiration of the limited warranty period.

RETURN GOODS PROCEDURE

All returns must be made through an authorized dealer. Units for repair should be sent to Midmark and packaged in the original shipping container if possible. Please contact our Customer Service Department prior to shipping the unit prepaid to receive authorization RMA number. Specify the RMA number on the outside of the box and label it to the attention of Repair Service Center. Ship to: Midmark Corporation, Plant A Returns Dept, Attn: Repair Service Center, 60 Vista Drive, Versailles OH 45380

Section A

Troubleshooting



<u>Function / System</u>	<u>Page</u>
Theory of Operation	A-2
Electrical Schematic	
1HP & 1 1/4 HP Motors	A-3
(CV3, CV3R, CV6, CV6R)	
Electrical Schematic 2 HP Motors	A-4
(CV5, CV5R, CV10, CV10R)	

Troubleshooting

Theory of Operation

Fresh water flows through the water strainer assembly, solenoid valve and anti-siphon valve. (In recycler models water also flows through a water bypass valve.) The water is injected onto the pump seal to provide cooling and lubrication.

Water flows into the rotating impeller which creates a whirling ring of water inside the pump housing, isolating each chamber of the impeller.

The impeller is mounted off-center. As it turns, the space in each chamber expands and decreases once with each rotation. This creates low pressure on the inlet side and higher pressure on the outlet side.

On recycler models, water is forced out of the pump housing into the recycling chamber. Vacuum created at the intake port in the pump housing draws a steady stream of water from the water recycler. Recycled water mixes with the fresh water in the pump housing and the process is repeated. When the recycling chamber is full of water, any excess is exhausted out of the housing and through the waste line.

Non-recycler models are connected to the drain with all liquids exiting out of the housing and through the waste line.

Note: If water supply is interrupted, the pump will run at a reduced vacuum level.

Operating the pump without continuous fresh water flow will cause permanent damage to the housing seal.



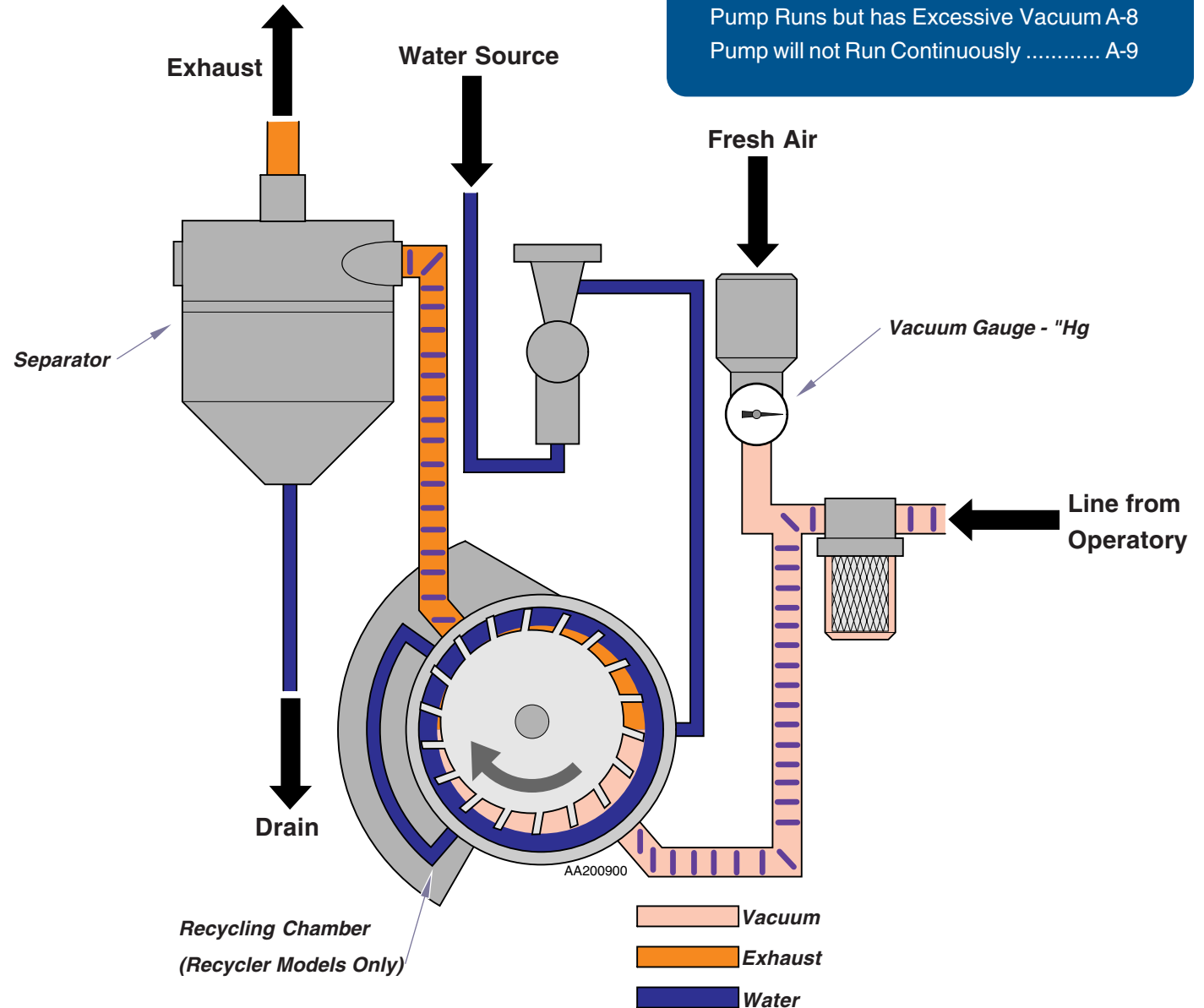
Equipment Alert

Harmful odors, vapor contaminants and nitrous oxide gasses are vented out the separator, while liquid waste flows out of the lower drain and into a "P"-Trap or floor sink. **Verify all local codes.**

Troubleshooting

Page

Motor will not Start when Turned ON A-6
 Pump Runs but has Low Suction A-7
 Pump Runs but has Excessive Vacuum A-8
 Pump will not Run Continuously A-9



Electrical Schematic

1 HP & 1 1/4HP MOTOR

Refer to:

Page

Wire Diagrams D-1

All 1HP and 1 1/4HP units are factory wired for 208-230 VAC. They can be rewired for 115 VAC.

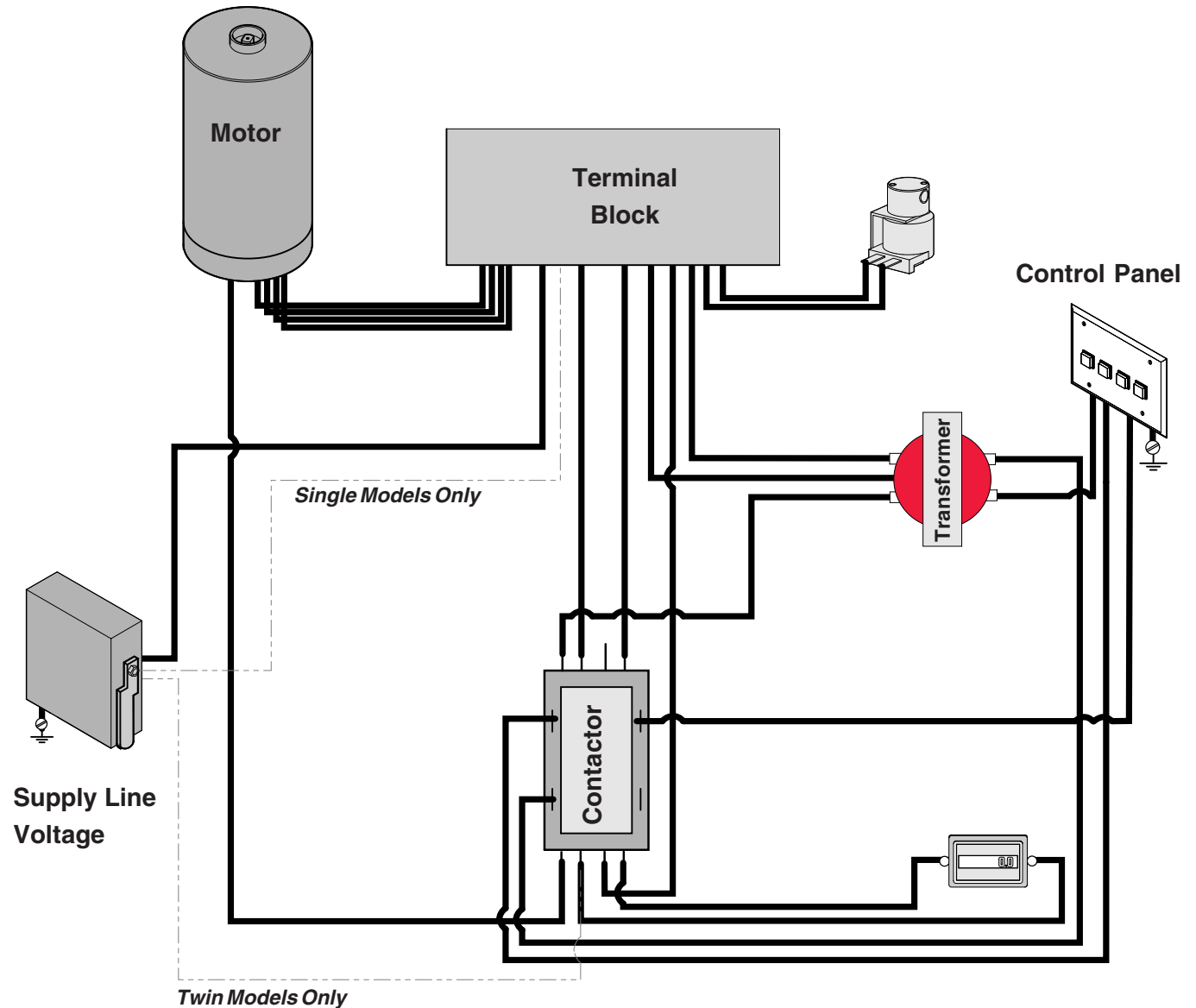
- Supply Line Voltage is always present on one side of the Contactor contacts.
- Line Voltage is also being supplied to the 240 / 24 VAC transformer energizing it.
- The Transformer supplies 24 VAC to the On/Off switch (Control Panel) on the wall and to one side of the 24 VAC Contactor Coil.

Single Motor Units

- When the On/Off switch is pushed to the on position the Contactor Coil is energized closing the contacts.

Twin Motor Units

- When the control panel On/Off switch is pushed, and the On/Off switches on the vacuum are in the On position, the contactor coils are energized closing the contacts. Line voltage is then supplied to the motor.



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Models: 1HP and 1 1/4 HP Motor Models
Serial Numbers: All

Electrical Schematic
1 HP Motor

Troubleshooting

Electrical Schematic 2 HP MOTOR

All 2 HP units are factory wired for 208-230 VAC.

- Supply Line Voltage is always present on one side of the Contactor contacts.
- Line Voltage is also being supplied to the 240 / 24 VAC transformer energizing it.
- The Transformer supplies 24 VAC to the On/Off switch (Control Panel) on the wall and to one side of the 24 VAC Contactor Coil.

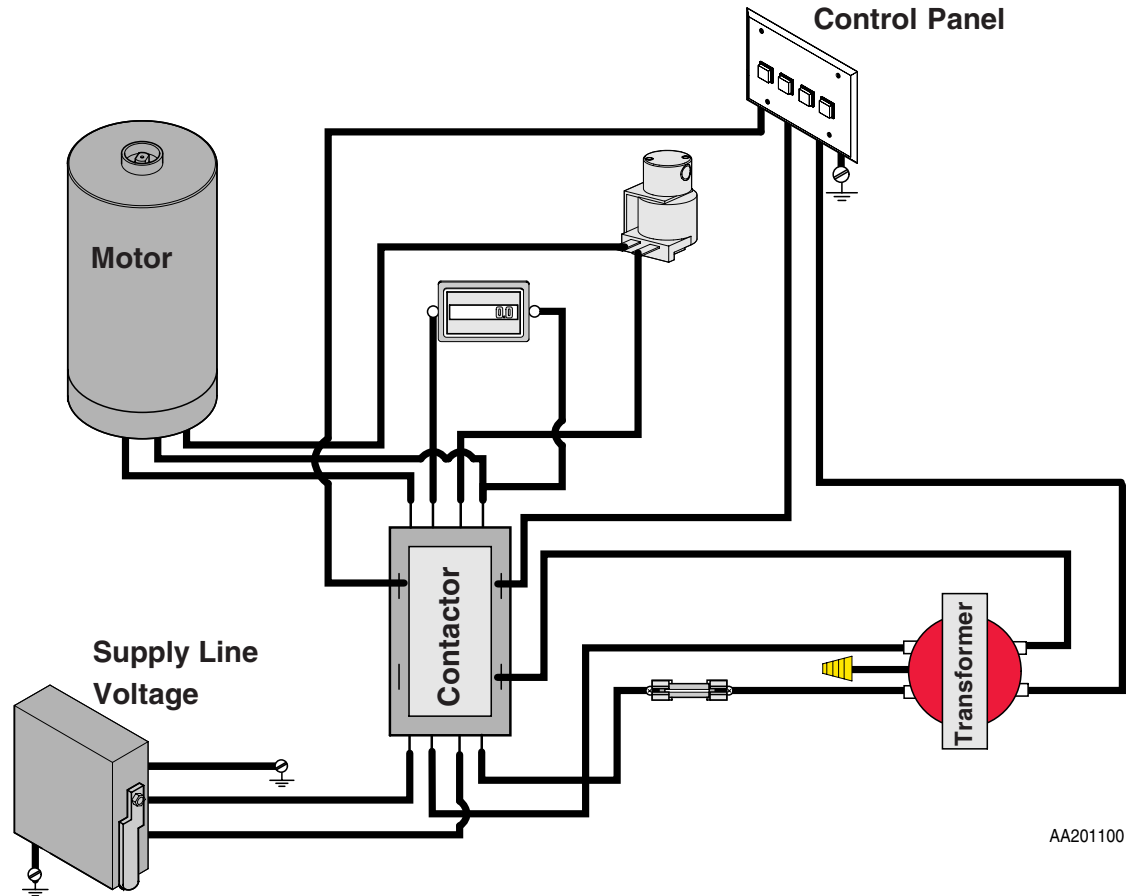
Single Motor Units

- When the On/Off switch is pushed to the on position the Contactor Coil is energized closing the contacts.

Twin Motor Units

- When the control panel On/Off switch is pushed, and the On/Off switches on the vacuum are in the On position, the contactor coils are energized closing the contacts. Line voltage is then supplied to the motor.

Refer to: **Page**
Wire Diagrams D-1



AA201100

Troubleshooting

Vacuum System

Problem: Motor will not Start when Turned ON

Refer To:	Page
Fuse	B-2
Low Voltage	B-4



Check Fuse
Refer to: Section B Fuse

2nd ✓

Check Circuit Breaker

Turn circuit breaker off then back on.

1st ✓

Check Low Voltage

Refer to: Section B Low Voltage

3rd ✓

Motor needs to be Replaced
Contact Midmark Technical Service .

4th ✓



Models:
Serial Numbers:

All

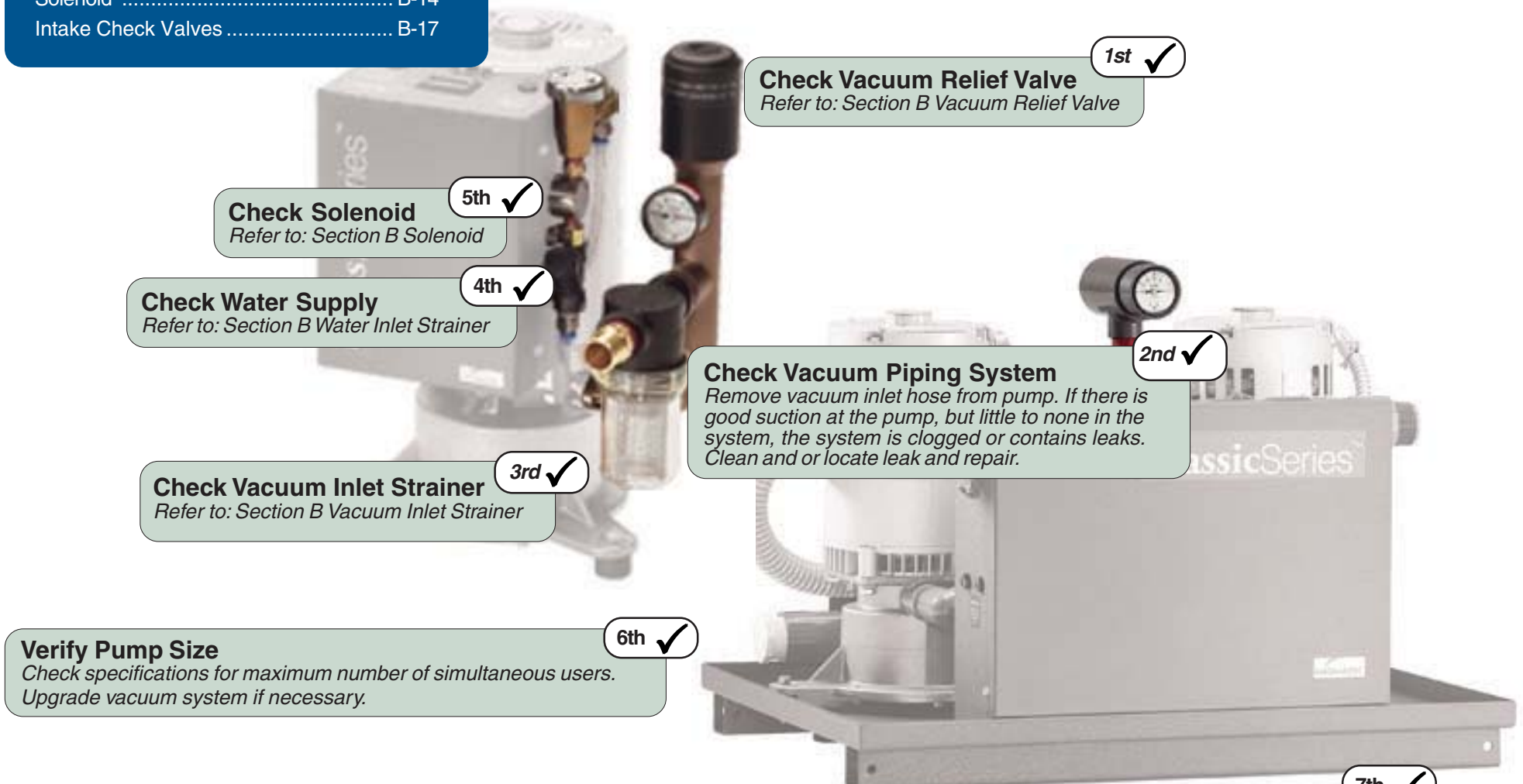
Vacuum System

Troubleshooting

Vacuum System

Problem: Pump Runs but has Low Suction

<u>Refer To:</u>	<u>Page</u>
Vacuum Relief Valve	B-6
Vacuum Inlet Strainer	B-8
Water Inlet Strainer	B-10
Solenoid	B-14
Intake Check Valves	B-17



1st ✓

Check Vacuum Relief Valve
Refer to: Section B Vacuum Relief Valve

5th ✓

Check Solenoid
Refer to: Section B Solenoid

4th ✓

Check Water Supply
Refer to: Section B Water Inlet Strainer

2nd ✓

Check Vacuum Piping System
Remove vacuum inlet hose from pump. If there is good suction at the pump, but little to none in the system, the system is clogged or contains leaks. Clean and or locate leak and repair.

3rd ✓

Check Vacuum Inlet Strainer
Refer to: Section B Vacuum Inlet Strainer

6th ✓

Verify Pump Size
Check specifications for maximum number of simultaneous users. Upgrade vacuum system if necessary.

7th ✓

Twin Models - Low Suction Shown on Only One Pump Gauge
Intake Check Valves need to be cleaned or replaced. Refer to: Section B Intake Check Valves

Vacuum System

Problem: Pump Runs but has Excessive Vacuum

Refer To: Page
Vacuum Relief Valve B-6



1st ✓
Check Vacuum Relief Valve
Refer to: Section B Vacuum Relief Valve



Models:
Serial Numbers:

All

Vacuum System

Troubleshooting

Refer To:	Page
Contactor Relay	B-12

Vacuum System

Problem: Pump will not Run Continuously

1st ✓

Check Equipment Room Temperature.
Temperature should be 40° to 104° Fahrenheit
4 to 40 Celsius

2nd ✓

Check Circuit Breaker
Turn circuit breaker off then back on.



3rd ✓

Check Contactor Relay
Refer to: Section B Contactor Relay

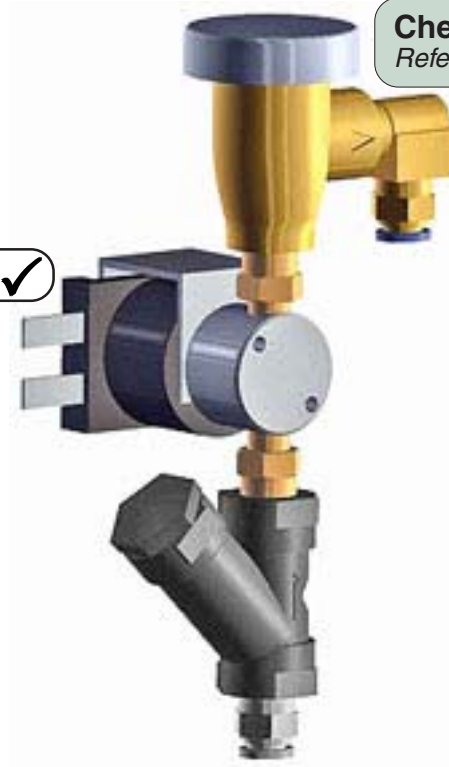


Vacuum System

Problem: Pump is Leaking

Refer To:	Page
Solenoid	B-14
Vacuum Breaker	B-16

1st ✓
Check Solenoid
Refer to: Section B Solenoid



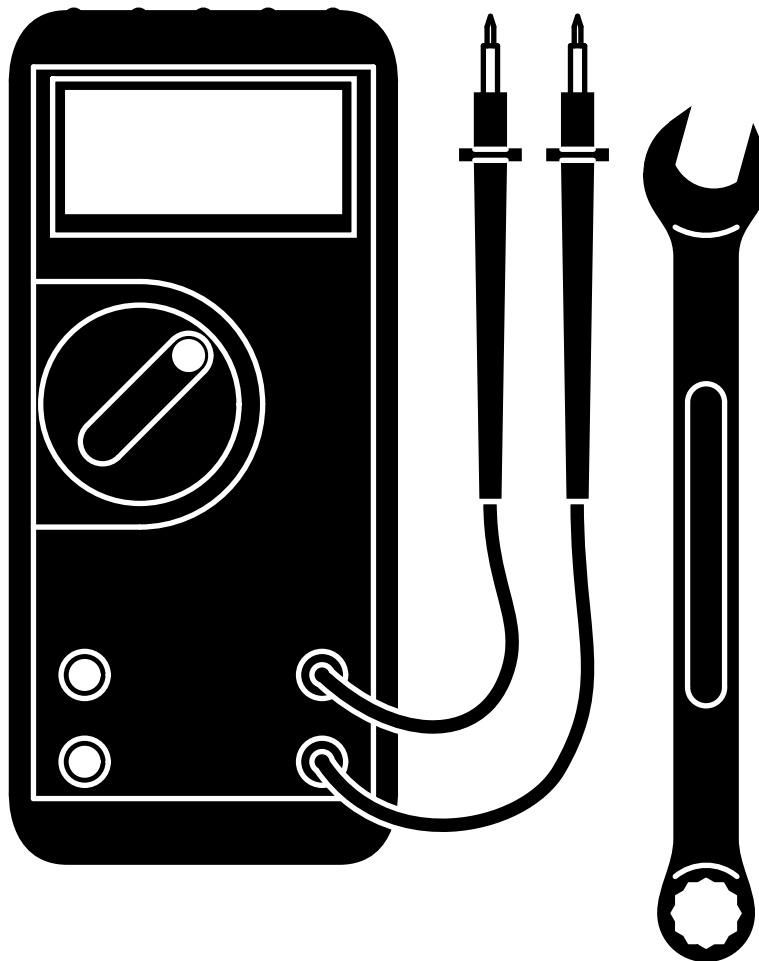
2nd ✓
Check Vacuum Breaker
Refer to: Section B Vacuum Breaker

Models: | **All**
Serial Numbers: |

Vacuum System

Section B

Testing & Repair



<u>Components</u>	<u>Page</u>
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Low Voltage	B-4
Vacuum Relief Valve	B-6
Vacuum Inlet Strainer	B-8
Water Inlet Strainer	B-10
Contactor Relay	B-12
Solenoid	B-14
Vacuum Breaker	B-16
<i>Twin Models Only</i>	
<i>(CV6, CV6R, CV10, CV10R)</i>	
Intake Check Valves	B-17

Testing & Repair

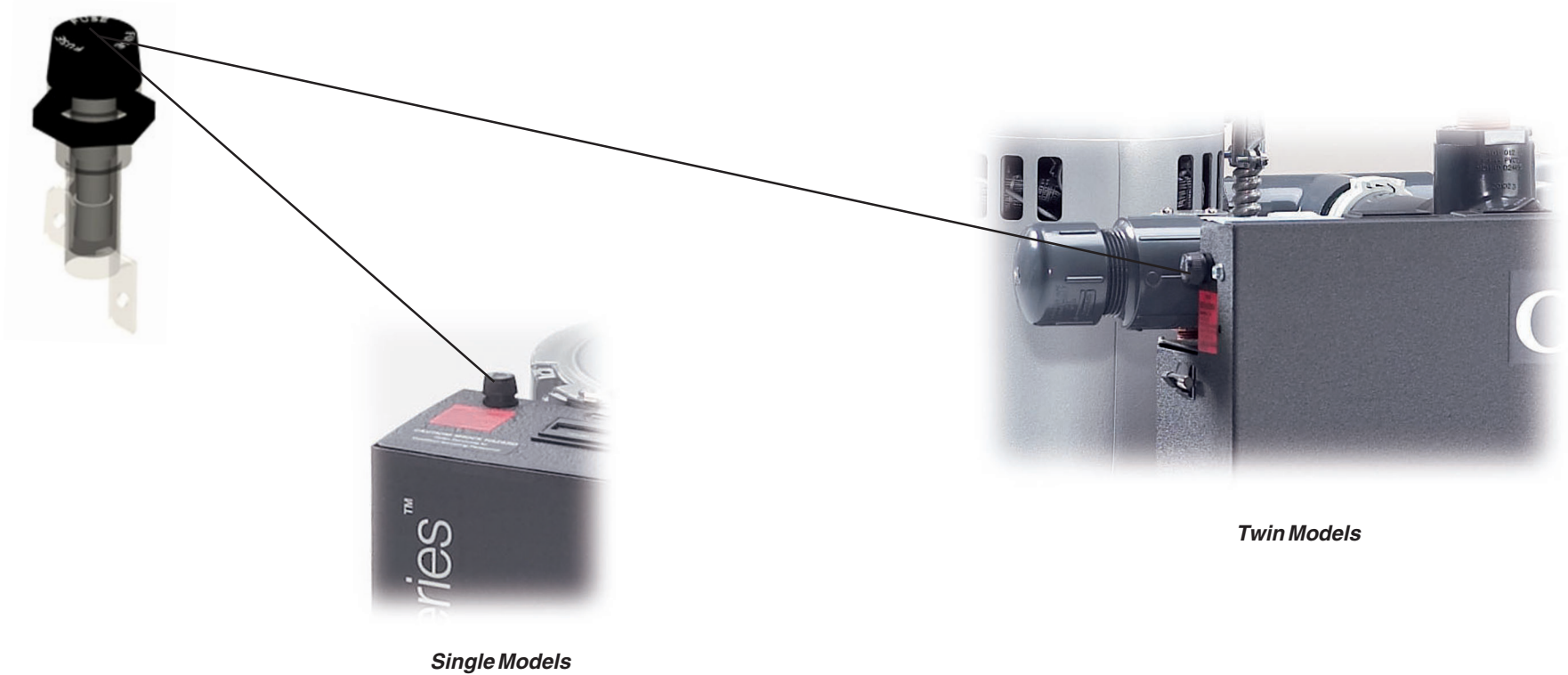
Fuse

Function and Location

The fuse protects the low voltage control system against overload failure, mainly short circuits. It is located in the electrical box and accessed on top of the electrical box on single models and the side of the twin models.

Refer to:	Page
Check Fuse	B-3

WARNING
For continued protection against risk of fire, replace the fuse with a 1/3 amp 250V Slo-Blo type only.

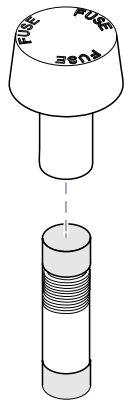


Fuse

Check

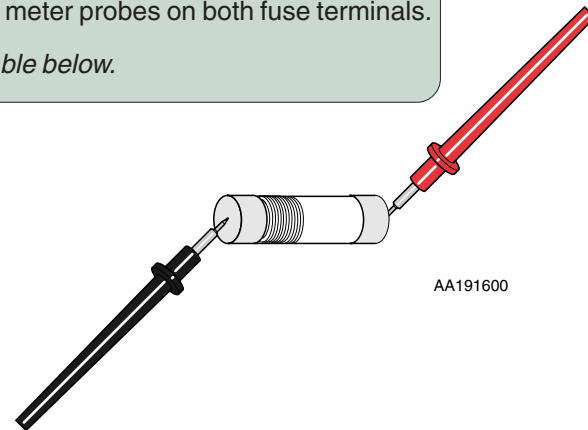
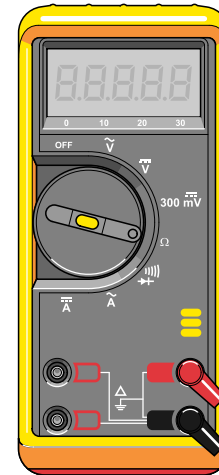
Refer to: Function and Location **Page** B-2

Step 1: Turn power off.



Step 2: Remove fuse from electrical box. Push in and turn cap counter clockwise.

Step 3: Test continuity. Set meter to Ω . Place meter probes on both fuse terminals.
Note: Refer to table below.



AA191600

Step 4: Reinstall into electrical box. Push in and turn cap clockwise until it locks in place.

Meter Reading	Status	Required Action
OL - off line		Replace Fuse 1/3 amp 250V Slo-Blo fuse
Continuity checks ok Visually looks ok		Fuse is Good

Models: | **All**
Serial Numbers: |

Fuse

Testing & Repair

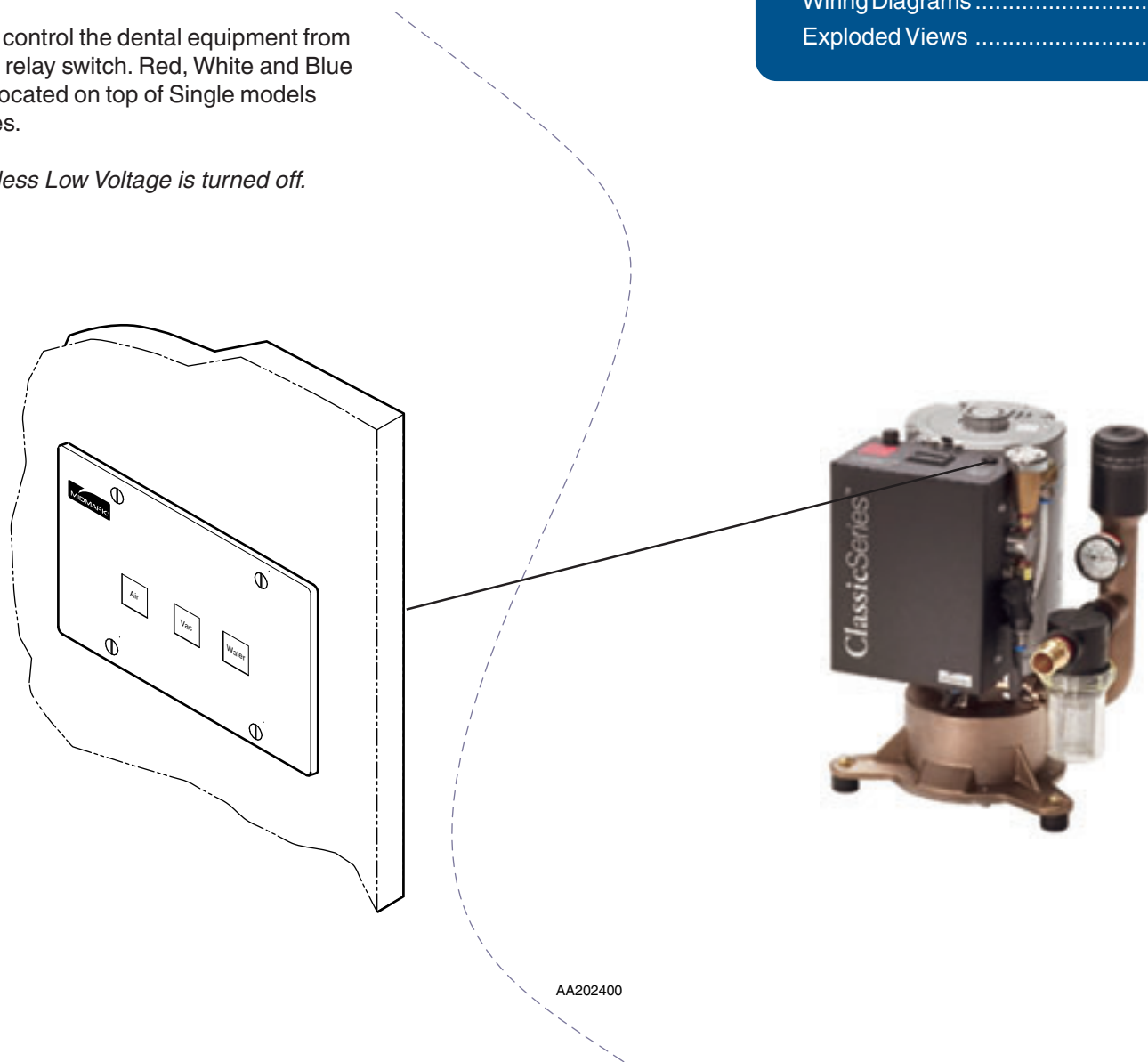
Low Voltage - Control Panel

Function and Location

The Control Panel will allow the user to control the dental equipment from the office area. It supplies power to the relay switch. Red, White and Blue wire connections for control panel are located on top of Single models and side of Twin models electrical boxes.

**Note: Relay Switch is always live unless Low Voltage is turned off.*

Refer To:	Page
Testing	B-5
Wiring Diagrams	D-1
Exploded Views	E-1



Low Voltage - Master Control Panel

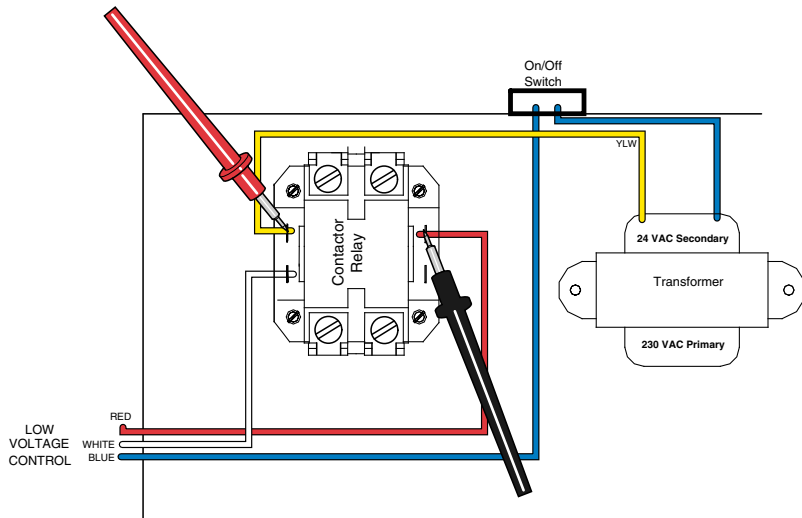
Testing

Step 1: Remove electrical box cover.
Check for broken or loose wiring.
Refer to: Section C Electrical Box Cover



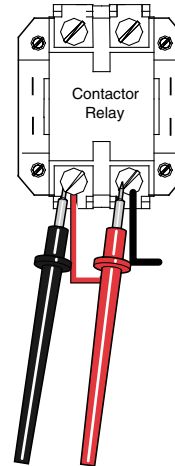
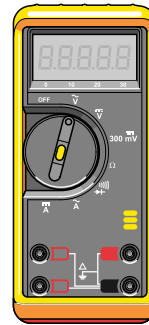
Caution
When testing components with power on use care to prevent electrical shock.

Refer to:	Page
Location and Function	B-4
Electrical Box Cover	C-2
Wiring Diagrams	D-1
Exploded Views	E-1



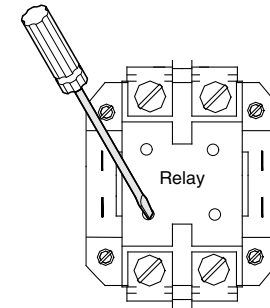
Step 3: Check Low Voltage .
Place meter probes on Yellow and Red wires
(low voltage) at Contactor connections.

Note: Verify reading is 24 volts.



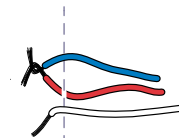
Step 2: Check high voltage on contactor relay.
• Set meter to V.
• Place meter probes on front, red and black wires.

Note: Verify reading is 230 volts.



Step 4: Insert screwdriver into relay to start manually.

Note: if system starts, replace contactor relay.



AA202100

Step 5: Bypass the remote switch to verify it is not defective.
Disconnect the Red, White and Blue wires from the remote switch.
Connect the Blue and Red wires together.

Meter Reading	Status	Required Action
High Voltage = < Line Voltage		Replace Contactor Relay
Low Voltage = < 24 Volts		Replace Transformer
High Voltage = Line Voltage		Contactor Relay - OK
Low Voltage = 24 Volts		Transformer - OK

Models:
Serial Numbers:

All

Low Voltage

Testing & Repair

Vacuum Relief Valve

Location and Function

The Vacuum Relief Valve regulates the vacuum pressure in the ClassicSeries® Wet-Ring vacuums.

Recommended range for the system is from 10" to 12"Hg.

The system is preset at the factory for 10"Hg.

The Vacuum Relief Valve is located on top of the intake manifold assembly.

**Replacement instructions are provided with the part. They are also available on Documark.com, or by clicking on the link in the blue box.*

Refer To:	Page
Adjustment	B-7



Twin Models



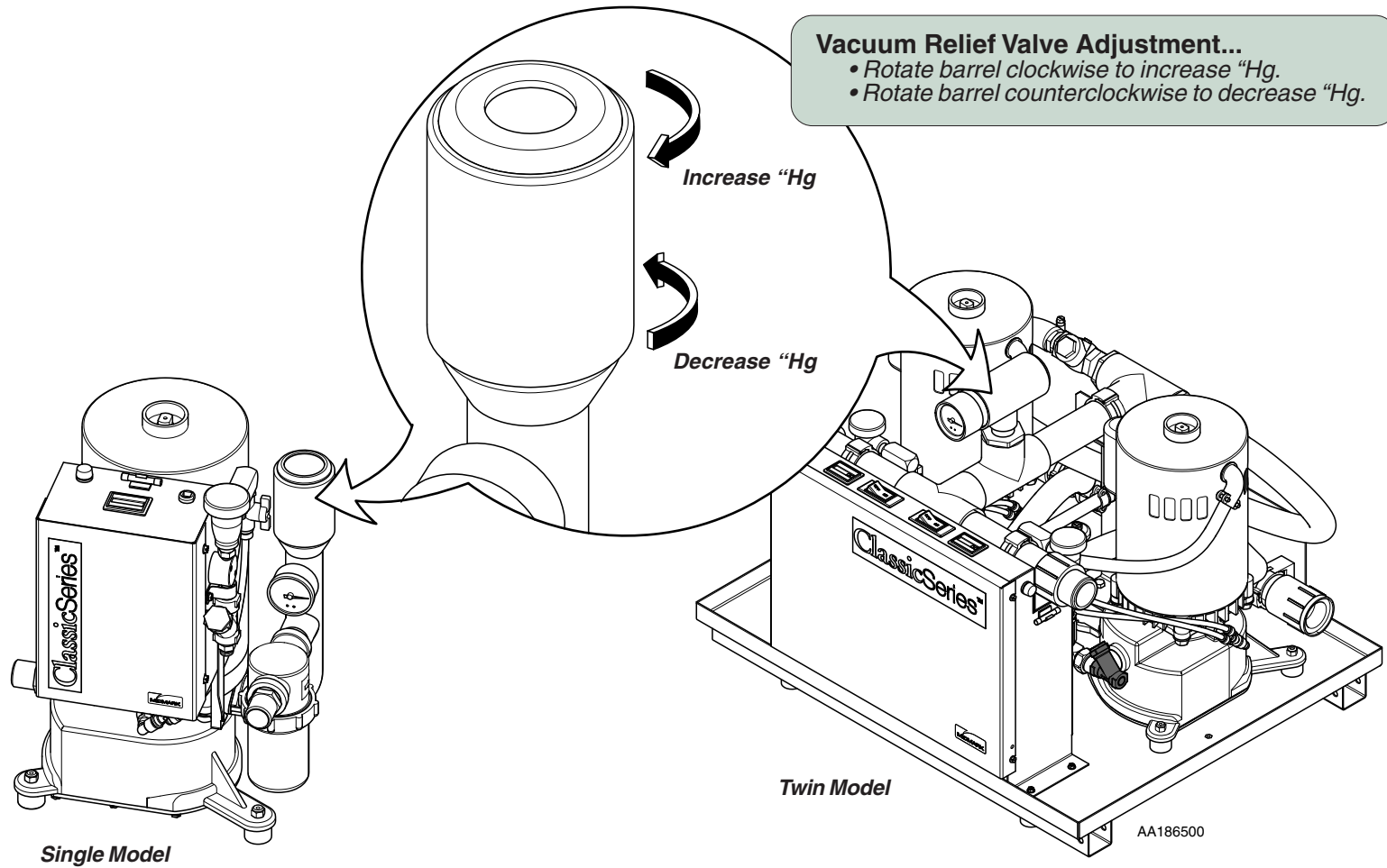
Vacuum Relief Valve



Single Models

Vacuum Relief Valve

Adjustment



Models:
Serial Numbers:

All

Vacuum Relief Valve

Testing & Repair

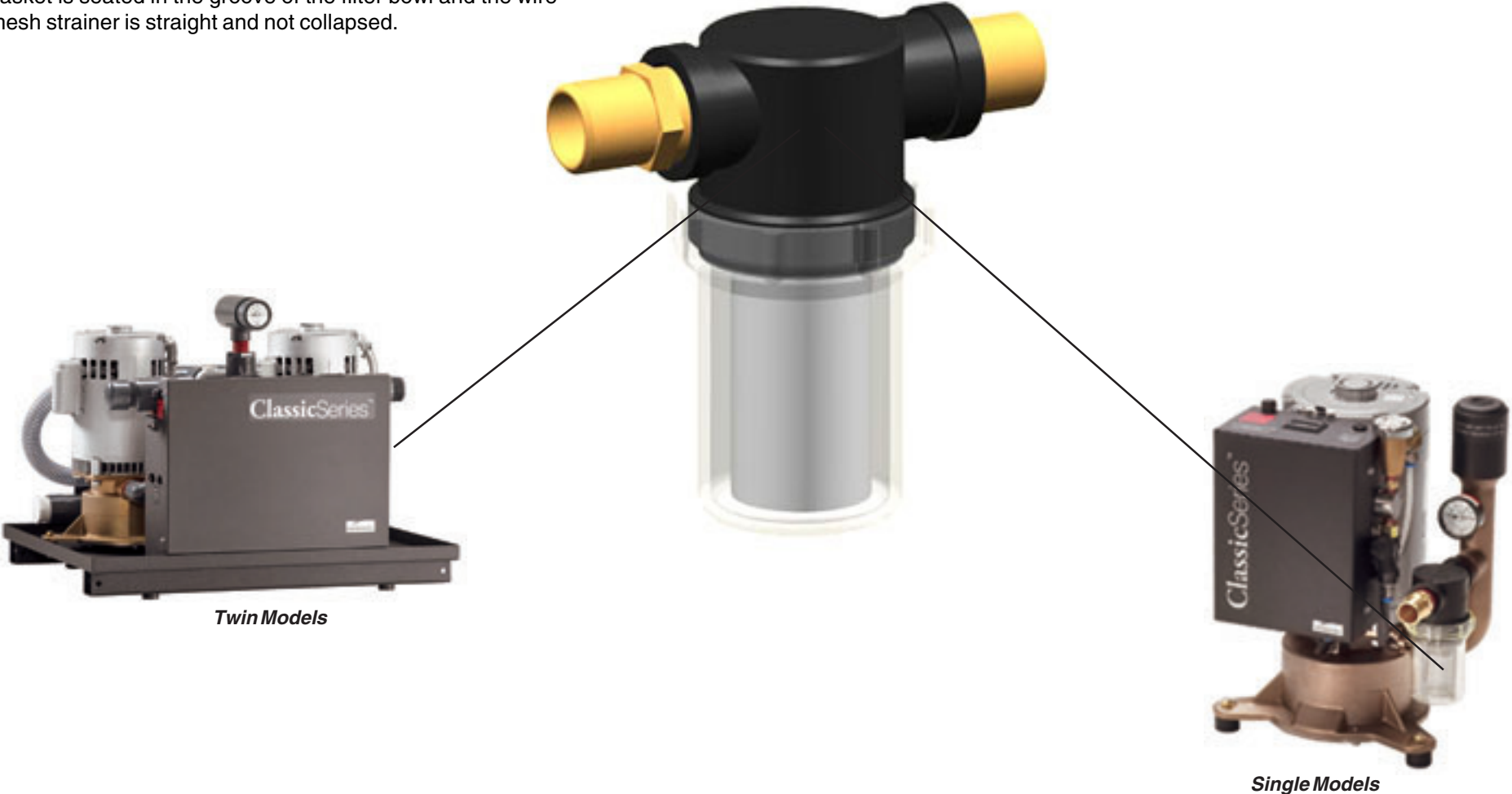
Vacuum Inlet Strainer

Location and Function

The vacuum inlet strainer keeps solid waste from going into the pump from the operatory line.

Empty and clean the inlet strainer everyday. Make sure gasket is seated in the groove of the filter bowl and the wire mesh strainer is straight and not collapsed.

Refer To:	Page
Clean	B-9
Exploded Views	E-1



Vacuum Inlet Strainer

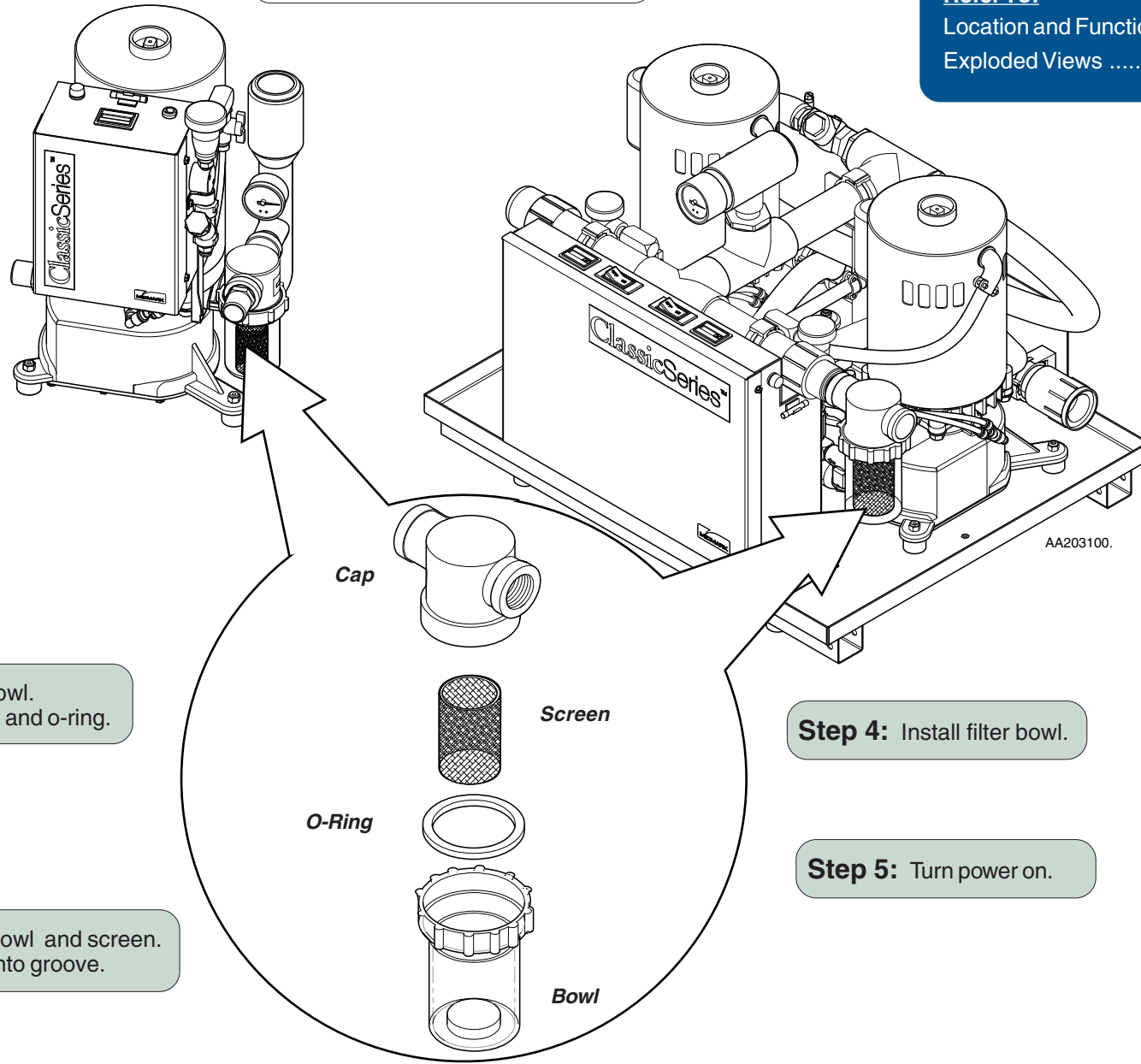
Clean

Step 1: Turn power off.

Attention:

If screen collapses, it must be replaced.

Refer To:	Page
Location and Function	B-8
Exploded Views	E-1



Step 2: Remove filter bowl.
Remove screen and o-ring.

Step 3: Clean filter bowl and screen.
Seat o-ring into groove.

Step 4: Install filter bowl.

Step 5: Turn power on.

Models:	All
Serial Numbers:	

Vacuum Inlet Strainer

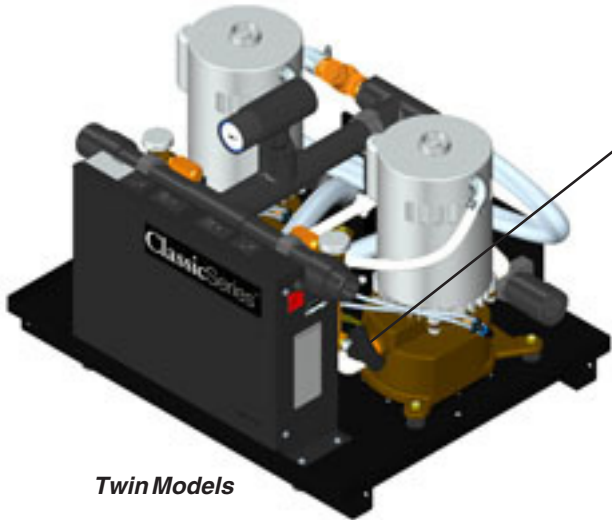
Testing & Repair

Water Inlet Strainer

Location and Function

The water inlet has a small wire mesh strainer in it which helps eliminate rust, solder wastes and other water contamination. Clean yearly, or as needed.

Refer To:	Page
Clean	B-11
Exploded Views	E-1



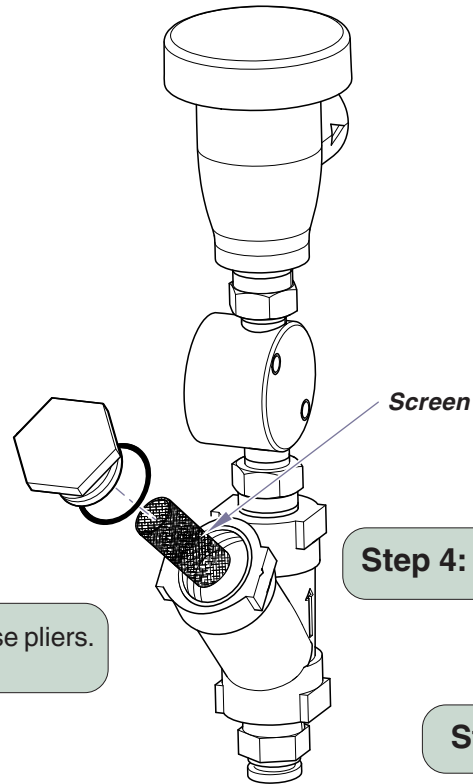
Water Inlet Strainer

Clean

Step 1: Turn power off.

Step 2: Remove cap from strainer housing.

Step 3: Remove screen with needle nose pliers.
Clean screen.



Step 4: Replace strainer and cap.

Step 5: Turn power on.

Models:
Serial Numbers:

All

Water Inlet Strainer

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Testing & Repair

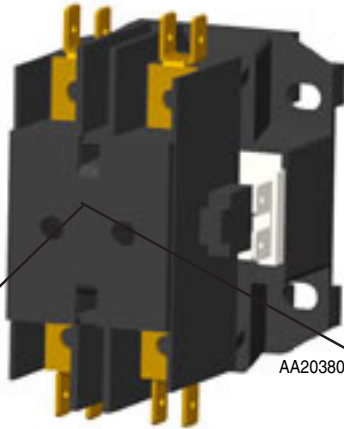
Contactor Relay

Location and Function

When the ClassicSeries® Wet-Ring Vacuum is turned on either by the remote wall switch or vacuum unit on/off switch on Twin models, the Contactor is energized. It sends current to the hour meter, solenoid valve and pump, turning them on.

The Contactor is located in the electrical box.

Refer To:	Page
Contactor Relay	B-13
Section D Wire Diagrams	D-1



Twin Models



Single Models

Contactor Relay

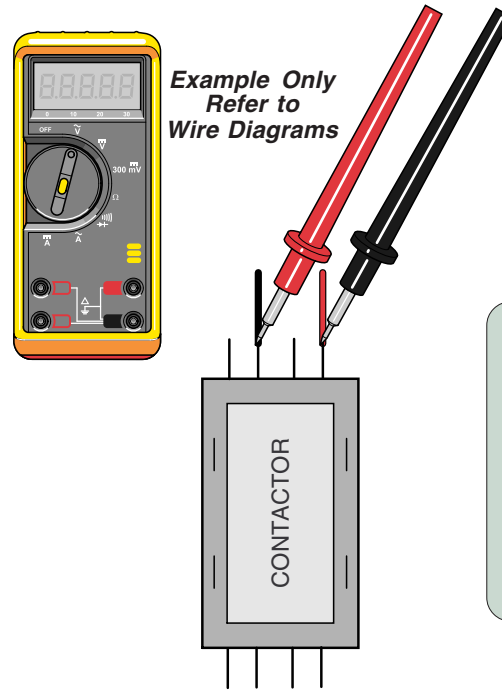
Test

Step 1: Turn power off.

Step 2: Remove electrical cover.
Refer to Section C: Electrical Cover.

Step 3: Turn power on.

Caution
When testing components with power on use care to prevent electrical shock.

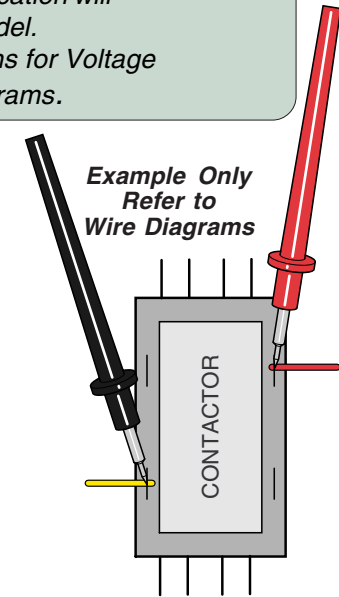
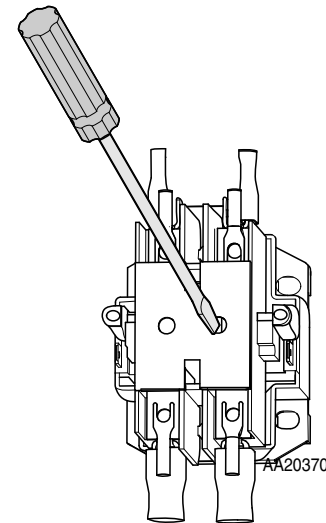


Step 5: Check voltage across contactor.
 • Set meter to \bar{V} .
 • Place meter probes on right and left side, red and yellow wires.
 Reading: 24VAC

*Note: Red and Black wire location will vary depending on model.
Refer to: Specifications for Voltage & Section D wire diagrams.*

Step 4: Check High Voltage on Contactor.
 • Set meter to \bar{V} .
 1 HP Models
 • Place meter probes on two bottom wire connections.
 2 HP Models
 • Place meter probes on two top wire connections.
 Reading: 115VAC or 208-230VAC depending on model.

Note: Refer to: Specifications for Voltage & Section D wire diagrams.



Step 6: Insert screwdriver to start manually.
Note: if system starts, replace contactor.

Step 7: Install electrical cover.

Meter Reading	Status	Required Action
115VAC or 208-230VAC Depending on Model		Contactor OK
24 VAC (Side check)		Transformer OK
Less than 115V or 208-230V Less than 24V		Replace Contactor

Models:
Serial Numbers:

All

Contactor Relay

Refer To:	Page
Specifications	B-9
Section D Wire Diagrams	D-1

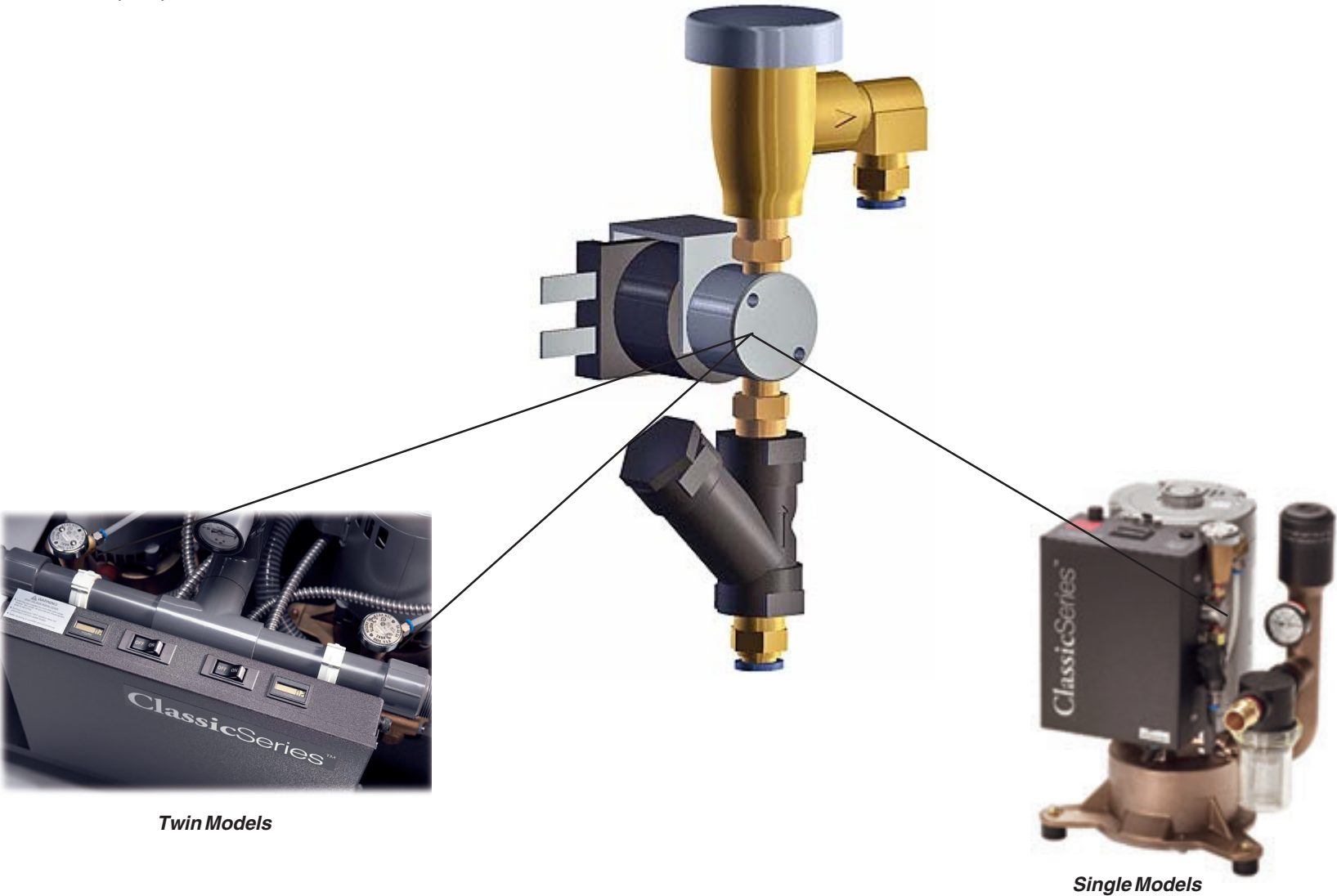
Testing & Repair

Solenoid

Location and Function

When the motor is turned on the solenoid valve opens and allows water to flow into the pump.

Refer to:	Page
Test Solenoid	B-15



Twin Models

Single Models

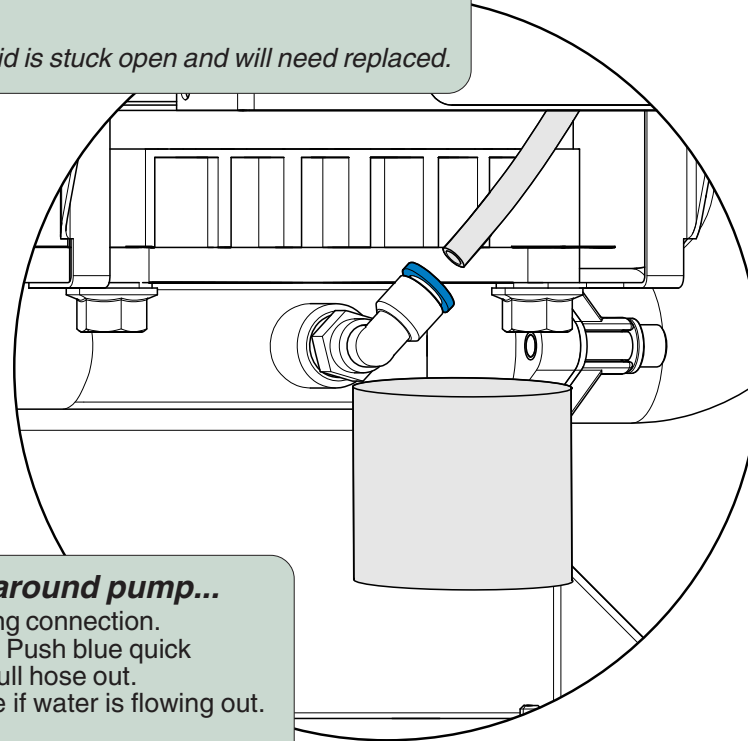
Solenoid

Test

If there is water standing around pump...

Step 1: Shut pump off.
Place cup under tube/housing connection.
Disconnect tube at housing. Push blue quick connect toward fitting and pull hose out.

Note: If water is flowing out, solenoid is stuck open and will need replaced.



If there is NO water standing around pump...

Step 2: Place cup under tube/housing connection.
Disconnect tube at housing. Push blue quick connect toward fitting and pull hose out.
Shut pump on and off to see if water is flowing out.

Note: If water is flowing out, check voltage.

Refer to:

Section C Access Procedures C-1

Section D Wire Diagrams D-1

Page

Voltage Check...

Step 3: Turn power off.

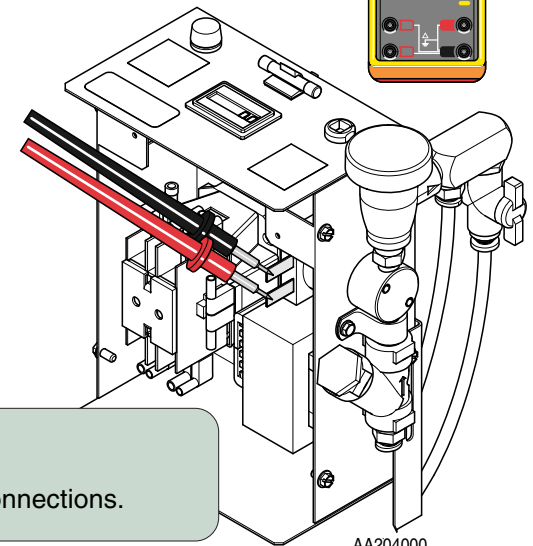
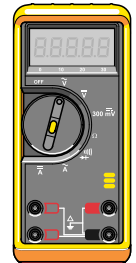
Step 4: Remove electrical cover.
Refer to Section C: Electrical Cover.

Step 5: Turn power on.



Caution

When testing components with power on use care to prevent electrical shock.



AA204000

Step 6: Check Voltage on Coil.

- Set meter to V.
- Place meter probes on two coil connections.

Meter Reading	Status	Required Action
115V		Solenoid OK
less than 115V		Replace Solenoid

Models:
Serial Numbers:

All

Solenoid

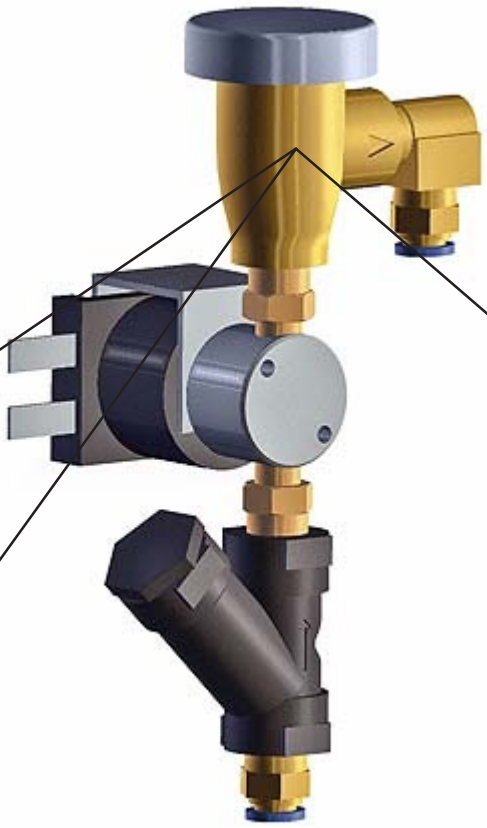
Testing & Repair

Vacuum Breaker

Function and Location

The vacuum breaker prevents contaminated water from being drawn from the pump into the fresh water supply. If the vacuum breaker leaks, it must be replaced or rebuilt. A rebuild kit is available.

Refer to: Page
Section E - Parts Lists E-1



Twin Models



Single Models

Intake Check Valve

Function and Location

Each pump on a twin model require a check valve to be installed at a 45 degree angle into the intake line.

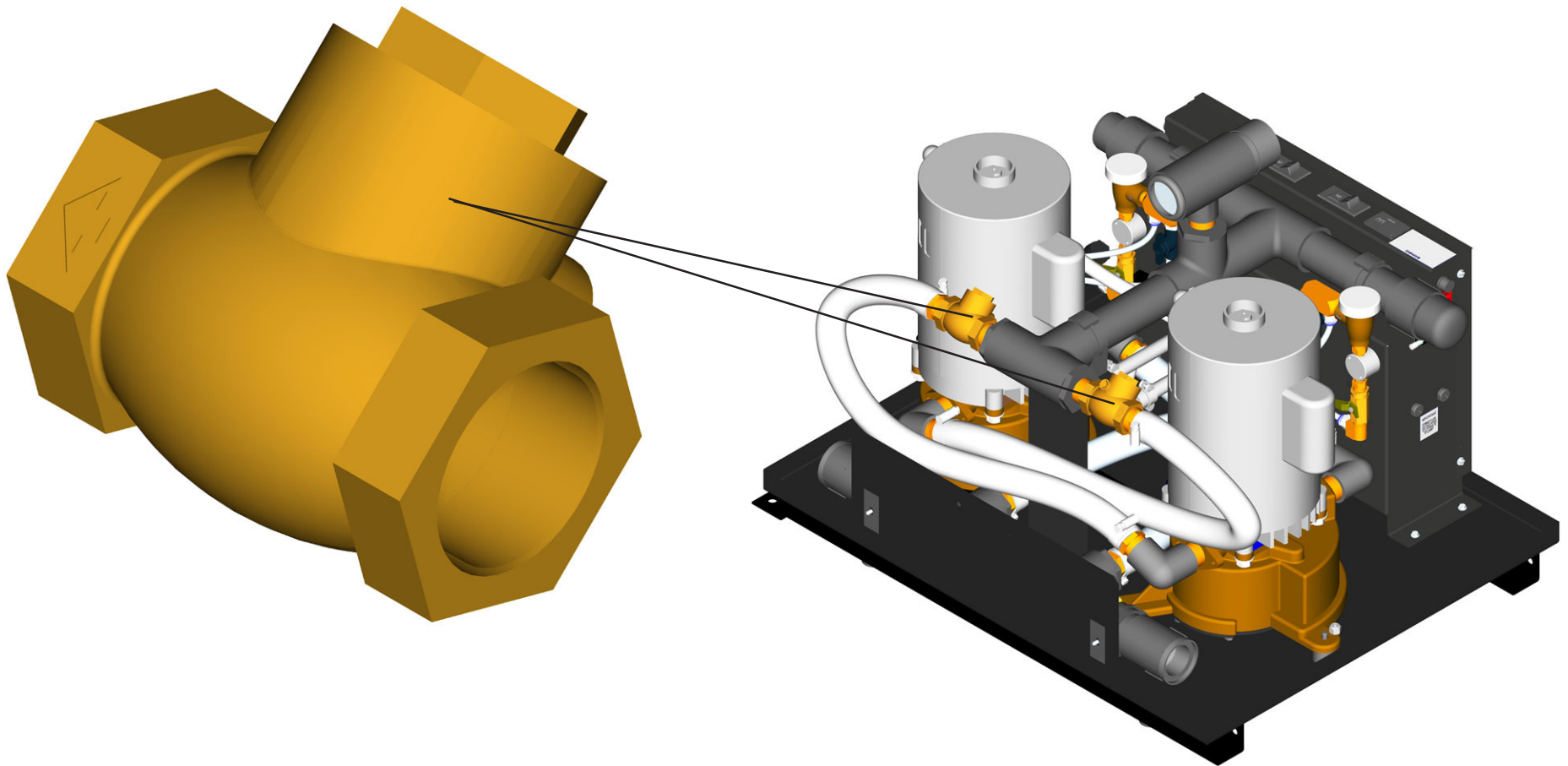
This prevents loss of suction pressure when one pump in the system is turned off. If no check valve is present, flow will be allowed through the "off" pump, creating a loss suction of the rest of the system.

Refer to:

Clean Intake Valve B-17

Page

B-17



Models:
Serial Numbers:

CV6

CV6R

CV10
All

CV10R

Intake Check Valves

B-17

Testing & Repair

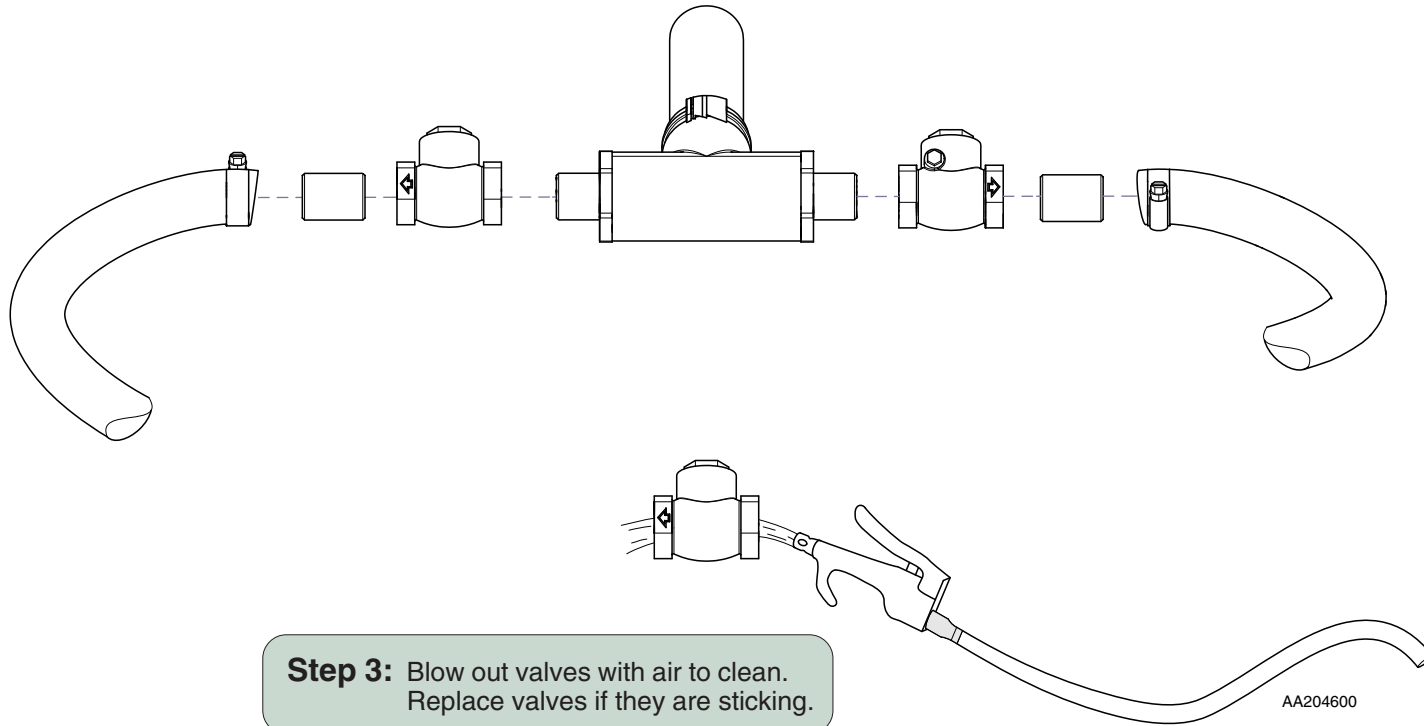
Intake Check Valve

Clean

Refer to: Page
Section E - Parts Lists E-1

Step 1: Disconnect power.

Step 2: Remove air line tubing from check valves. Disconnect check valves from tee fitting.



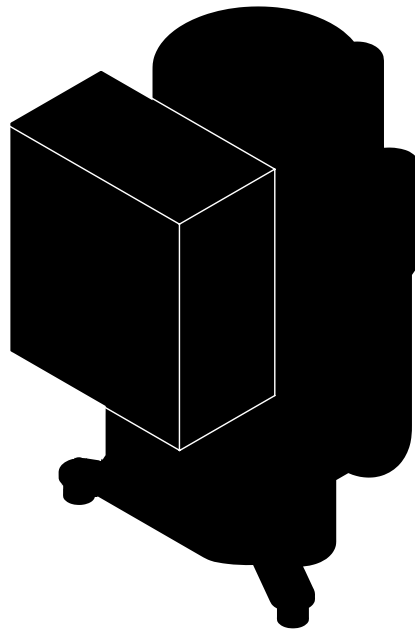
Step 3: Blow out valves with air to clean. Replace valves if they are sticking.

Section C

Access Procedures

Removing & Installing

Electrical Box Cover C-2



Access Procedures

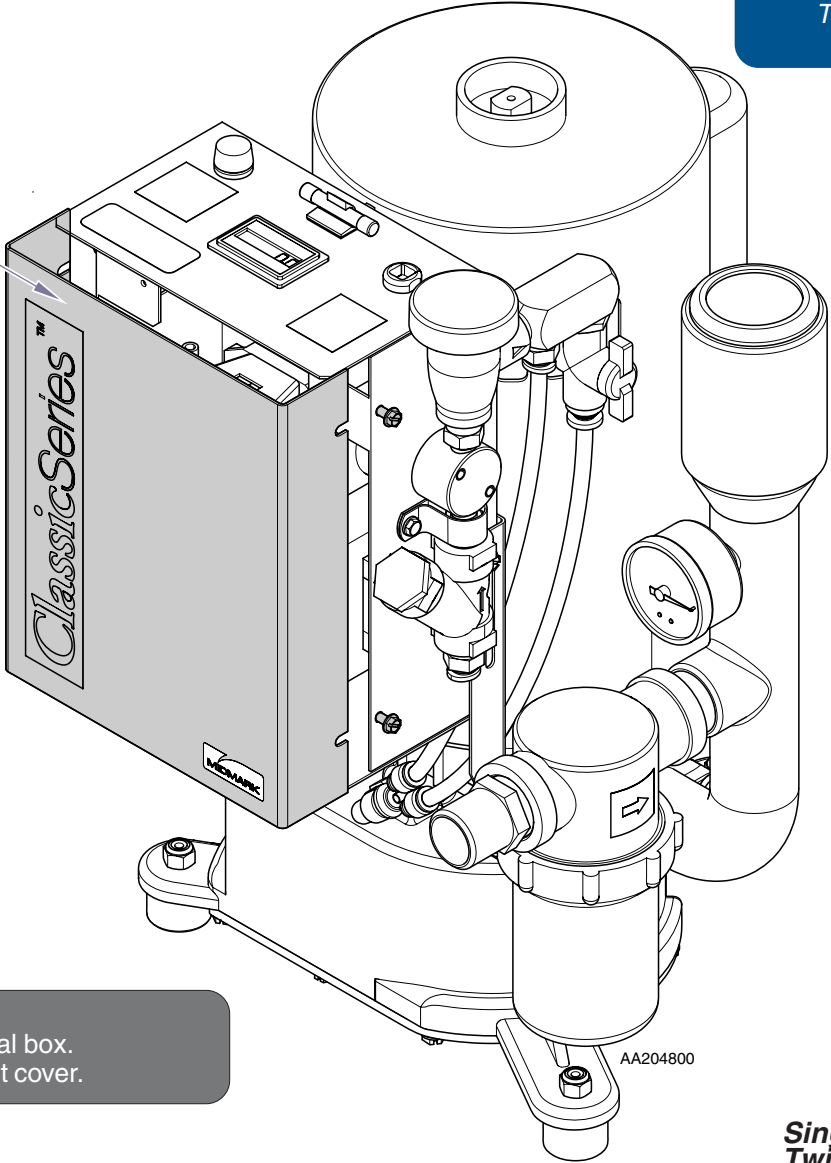
Electrical Box Cover

Removal/Installation

Removal
Step 1: Disconnect power.

Removal
Step 2: Loosen screws.
Pull cover off.

Cover



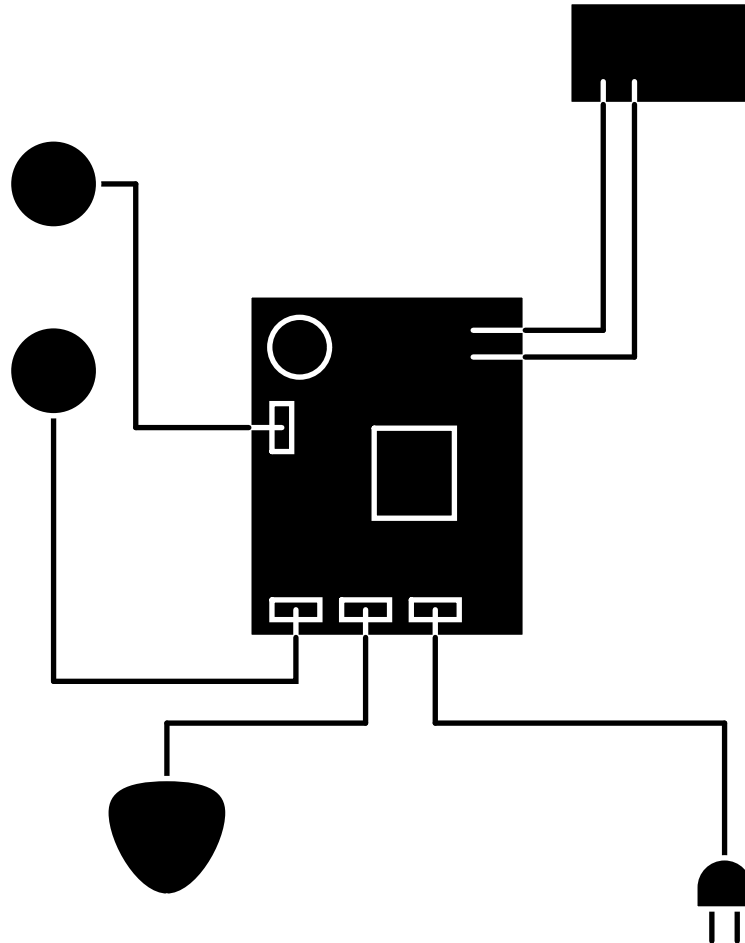
Refer To:	Page
Exploded Views / Part Numbers:	
Single Models	E-2
Twin Models	E-3

Installation
Step 1: Secure cover on front of electrical box.
Tighten four screws through front cover.

*Single Model Shown
Twin Models have the same procedure*

Section D

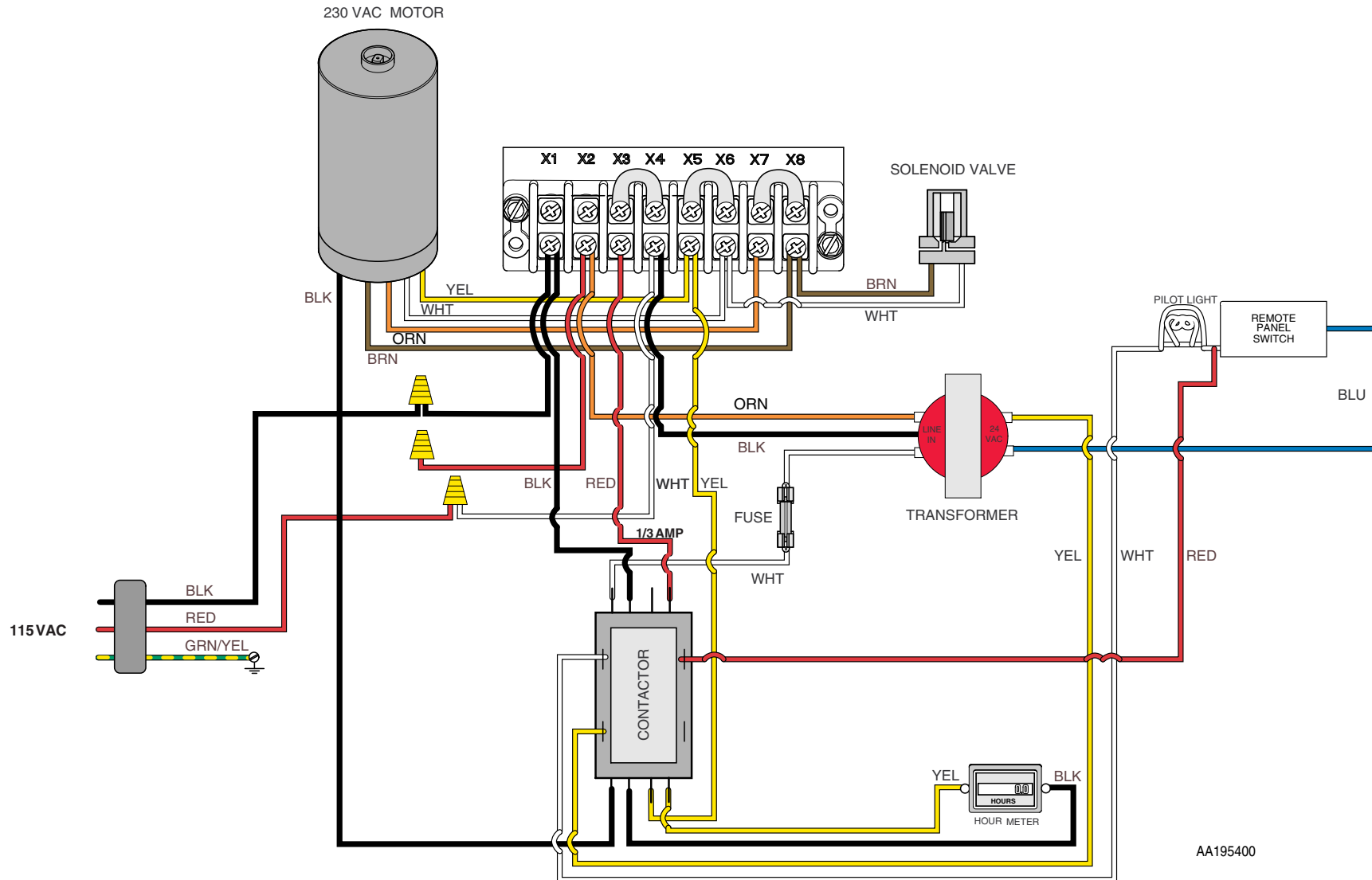
Wiring Diagrams



<u>Model</u>	<u>Page</u>
<i>ClassicSeries® Wet-Ring Vacuum</i>	
Single 1 HP & 1 1/4 HP 115 VAC	D-2
Single 1 HP & 1 1/4 HP 208-230 VAC	D-3
Single 2 HP 208-230 VAC	D-4
Twin 1 HP & 1 1/4 HP 115 VAC	D-5
Twin 1 HP & 1 1/4 HP 208-230 VAC	D-6
Twin 2 HP 208-230 VAC	D-7

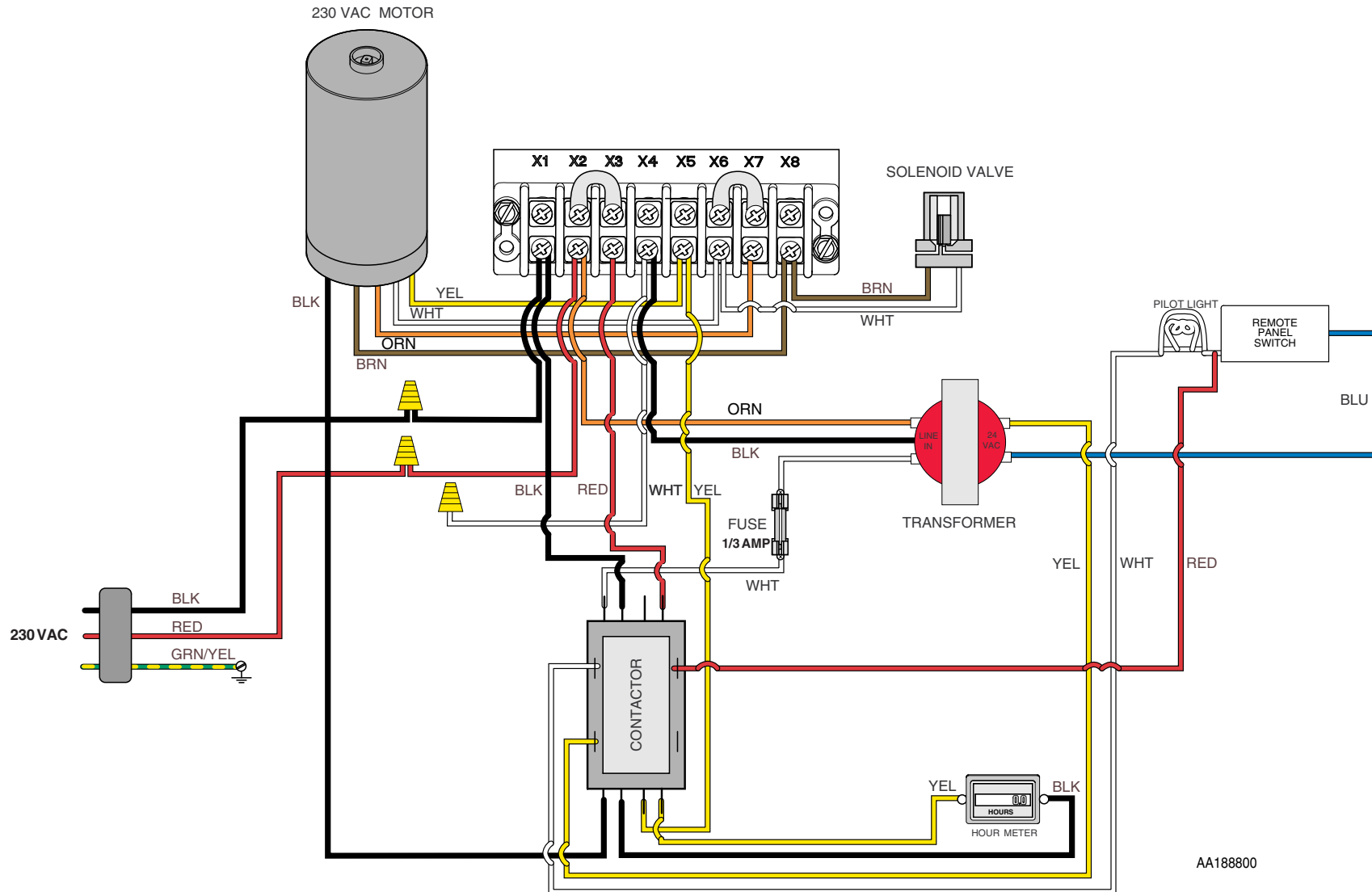
Wiring Diagrams

ClassicSeries® Wet-Ring Vacuum Single - 1 HP & 1 1/4 115 Volts



Wire Kit - 002-1463-00 Includes all loose wires
Note: Wires connected to a component min one end are not included.

ClassicSeries® Wet-Ring Vacuum Single - 1 HP & 1 1/4 HP 208-230 Volts



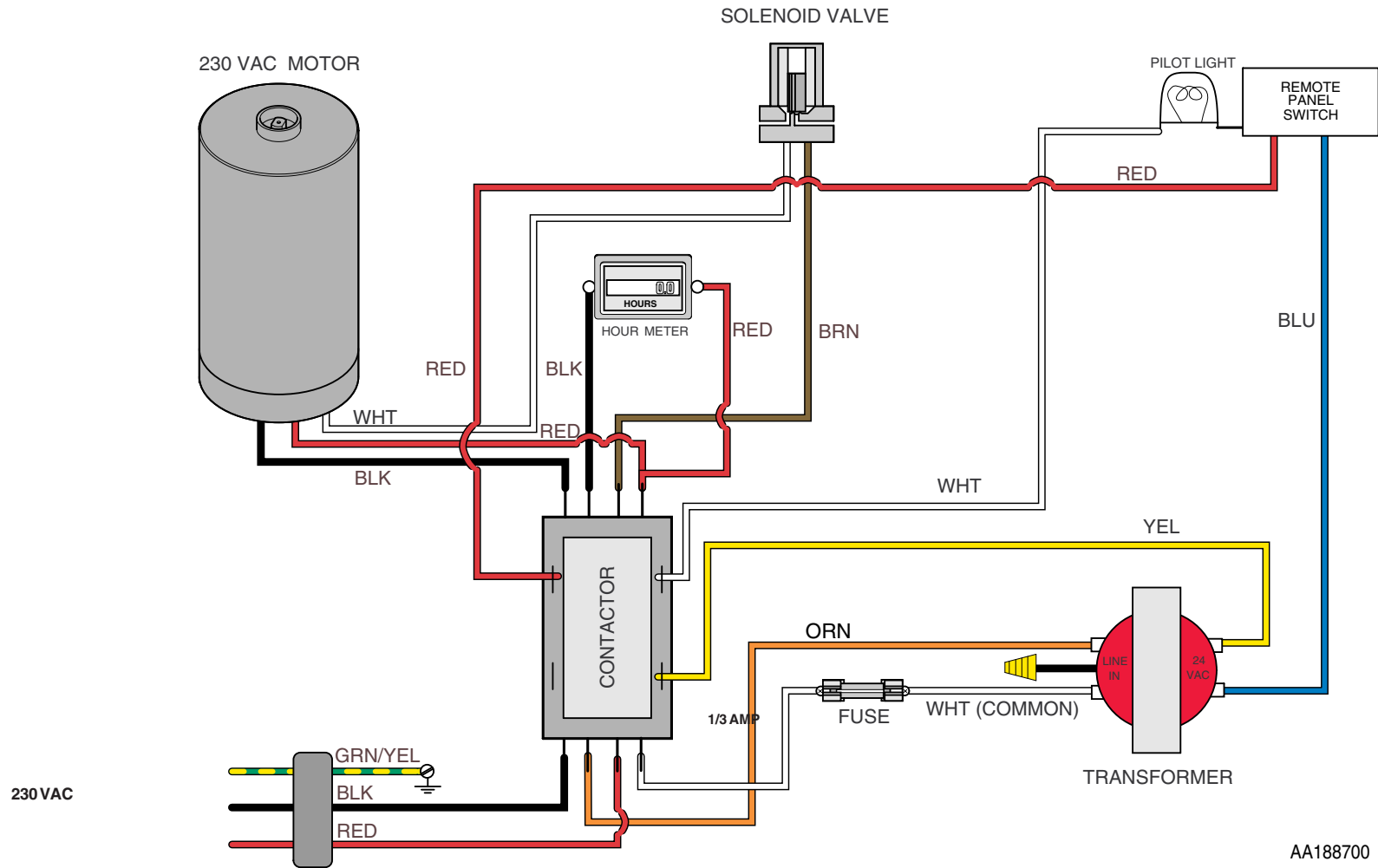
Wire Kit - 002-1463-00 Includes all loose wires
Note: Wires connected to a component min one end are not included.

Models: CV3 and CV3R can be configured for 115V or 208-230V
Serial Numbers: All

Wiring Diagrams

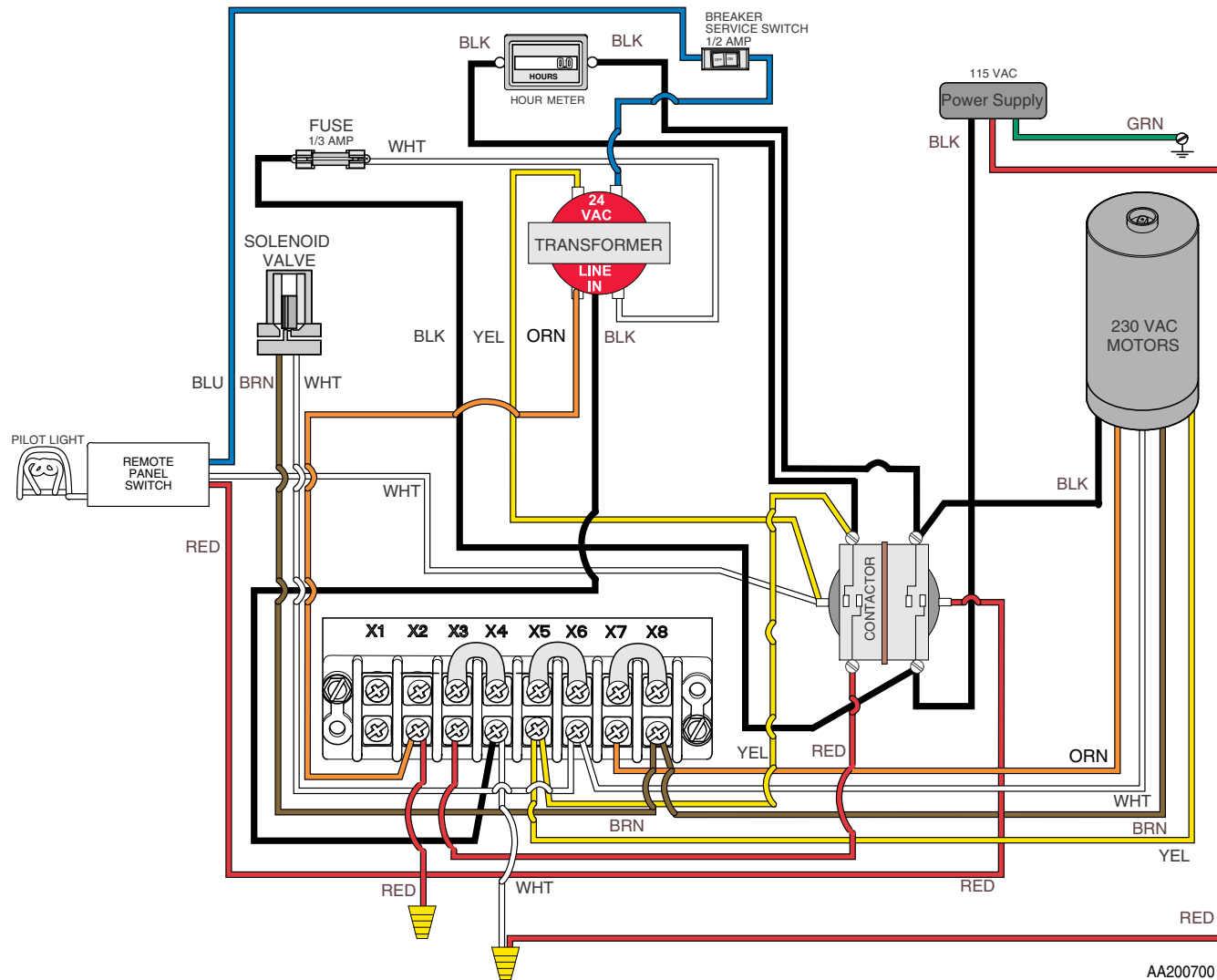
Wiring Diagrams

ClassicSeries® Wet-Ring Vacuum Single - 2 HP 208-230 Volts



Wire Kit - 002-1464-00 Includes all loose wires.
Note: Wires connected to a component min one end are not included.

ClassicSeries® Wet-Ring Vacuum Twin - 1 HP & 1 1/4 HP 115 Volts



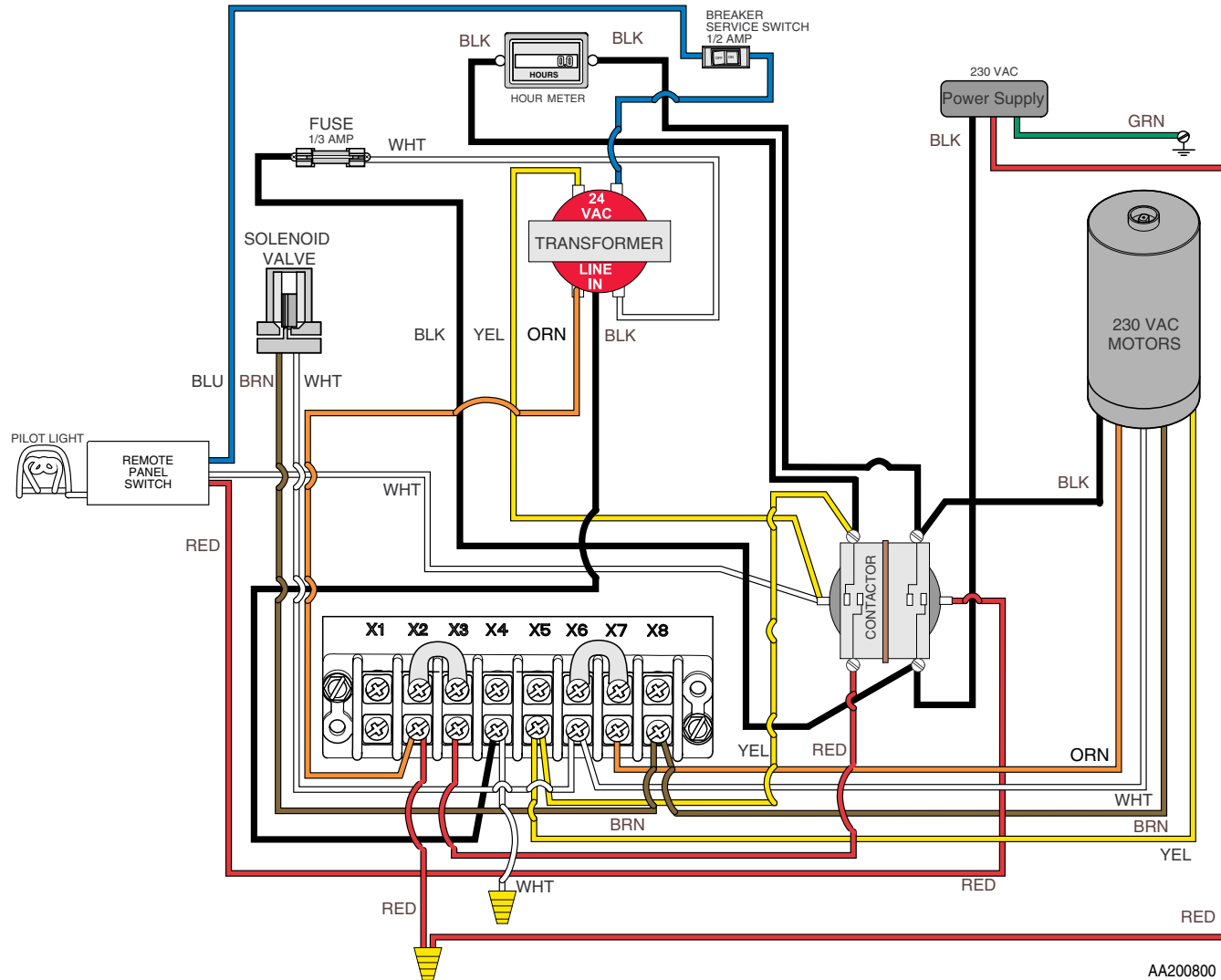
Wire Kit - 002-1465-00 Includes all loose wires.
Note: Wires connected to a component min one end are not included.

Models: **CV6 and CV6R can be configured for 115V or 208-230V**
Serial Numbers: *All*

Wiring Diagrams

Wiring Diagrams

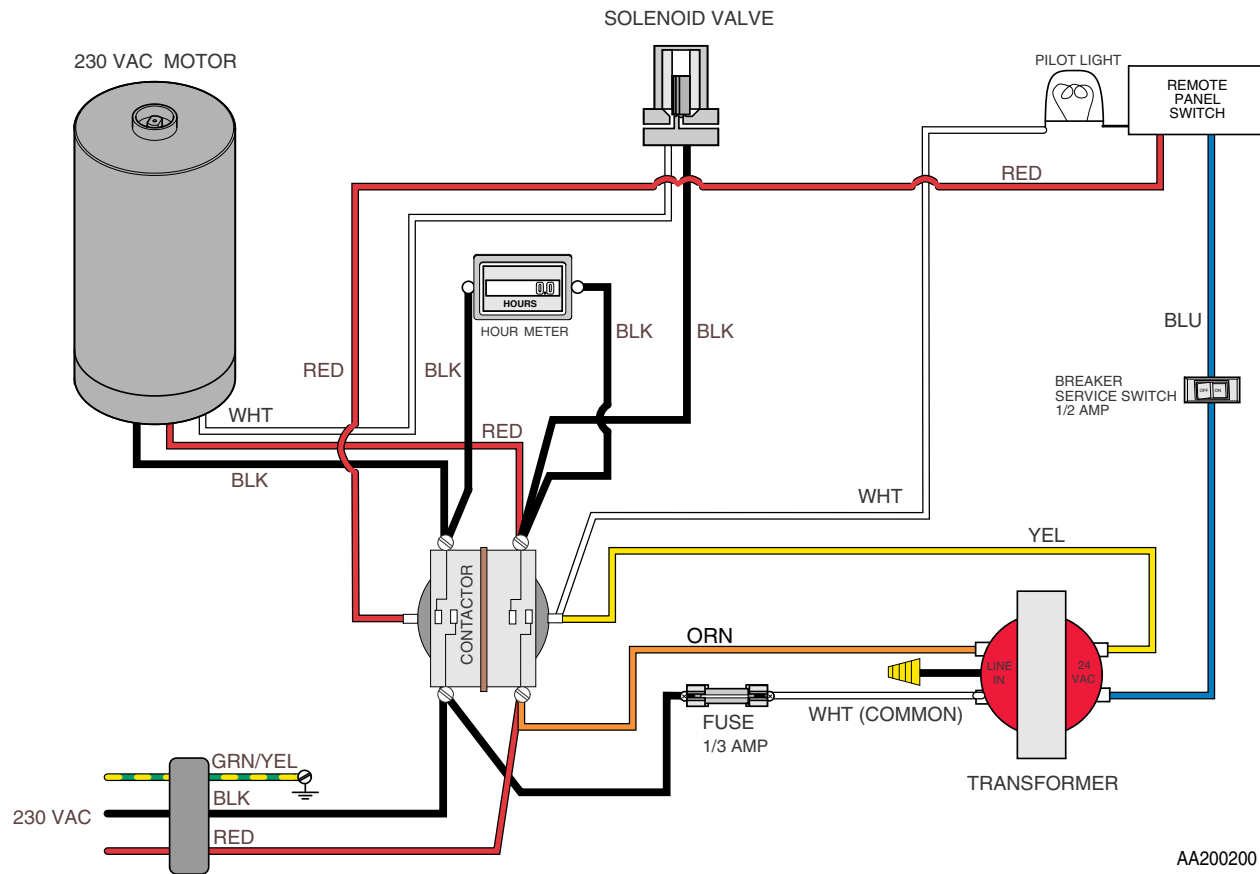
ClassicSeries® Wet-Ring Vacuum Twin - 1 HP & 1 1/4 HP 208-230 Volts



Wire Kit - 002-1465-00 Includes all loose wires.
Note: Wires connected to a component min one end are not included.

Wiring Diagrams

ClassicSeries® Wet-Ring Vacuum Twin - 2 HP 208-230 Volts

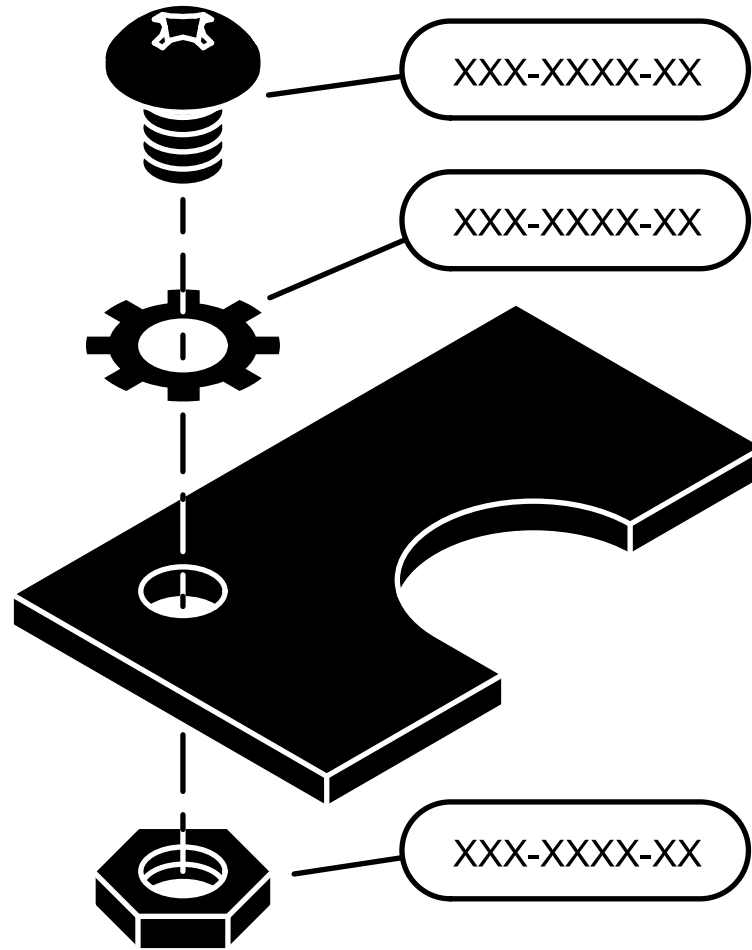


Wire Kit - 002-1466-00 Includes all loose wires.
Note: Wires connected to a component min one end are not included.

Section E

Exploded Views & Parts Lists

<u>Model:</u>	<u>Page</u>
Single Vacuums	E-2
Twin Vacuums	E-3



ClassicSeries®

CV3

CV3R

CV5

CV5R

Installation Kit E-4

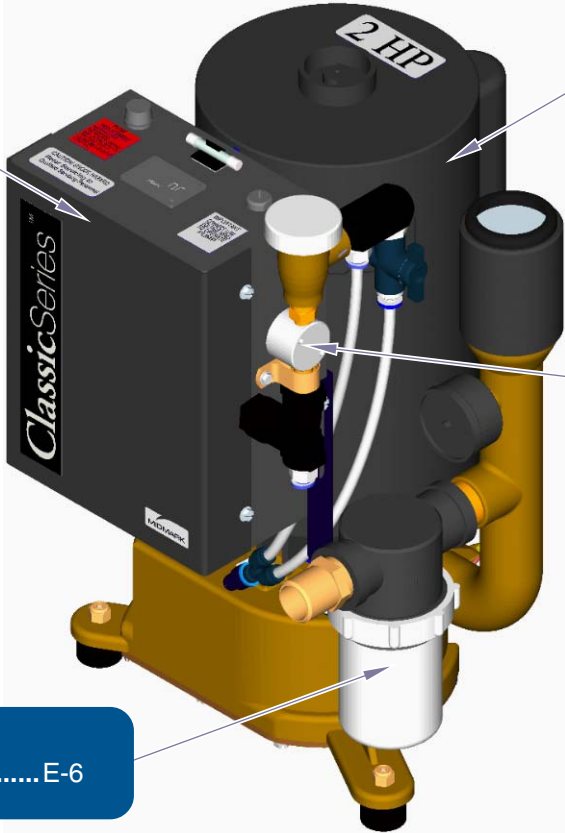
Label Locations E-14

Electrical Box E-10

Pump Assembly Components.....E-12

Vacuum Solenoid Assembly E-8*

Vacuum Intake Assembly E-6



* Indicates multiple pages due to a model / serial number break for the parts illustration

ClassicSeries®

CV6

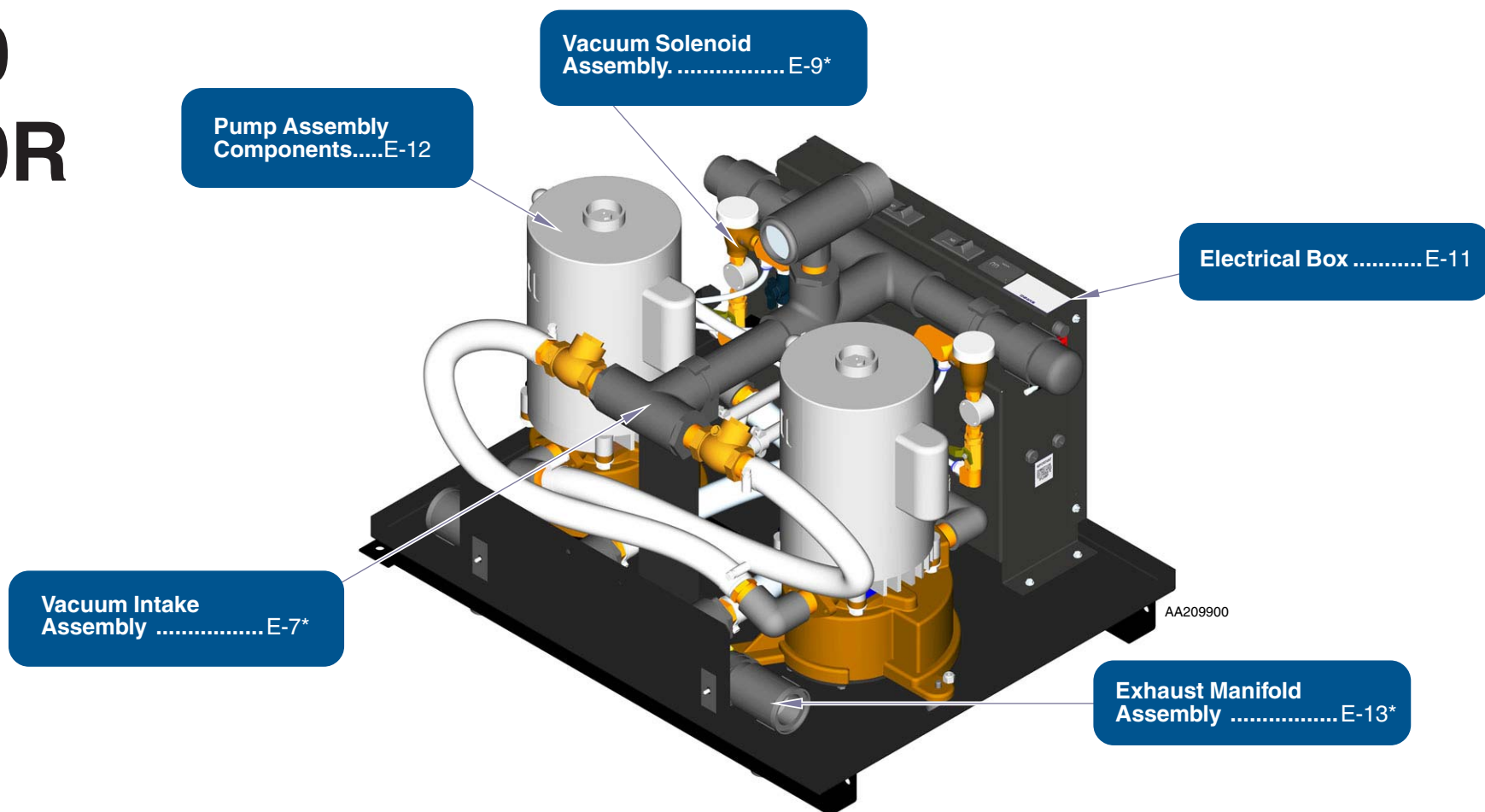
CV6R

CV10

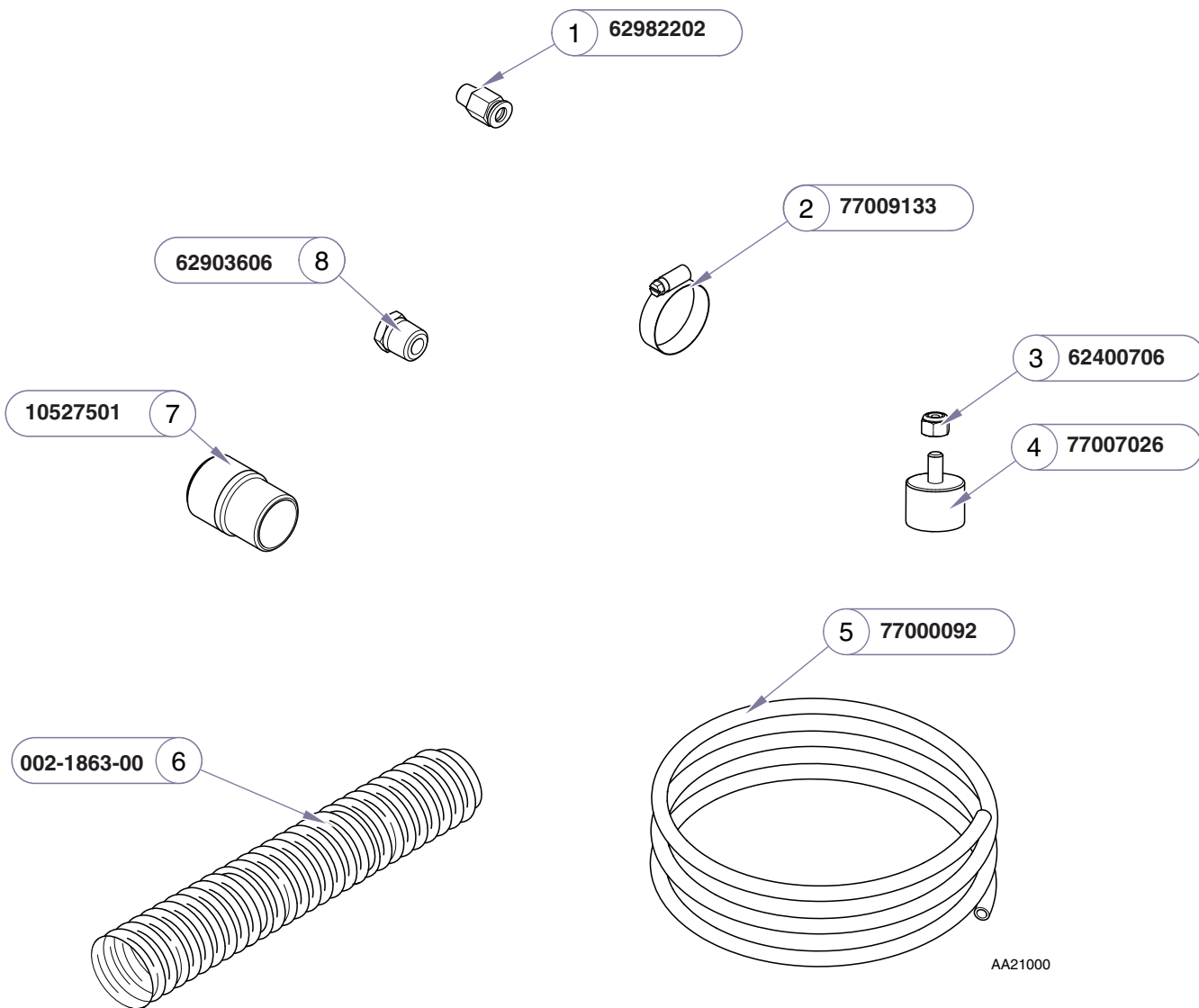
CV10R

Installation KitE-5

Label LocationsE-15



* Indicates multiple pages due to a model / serial number break for the parts illustration

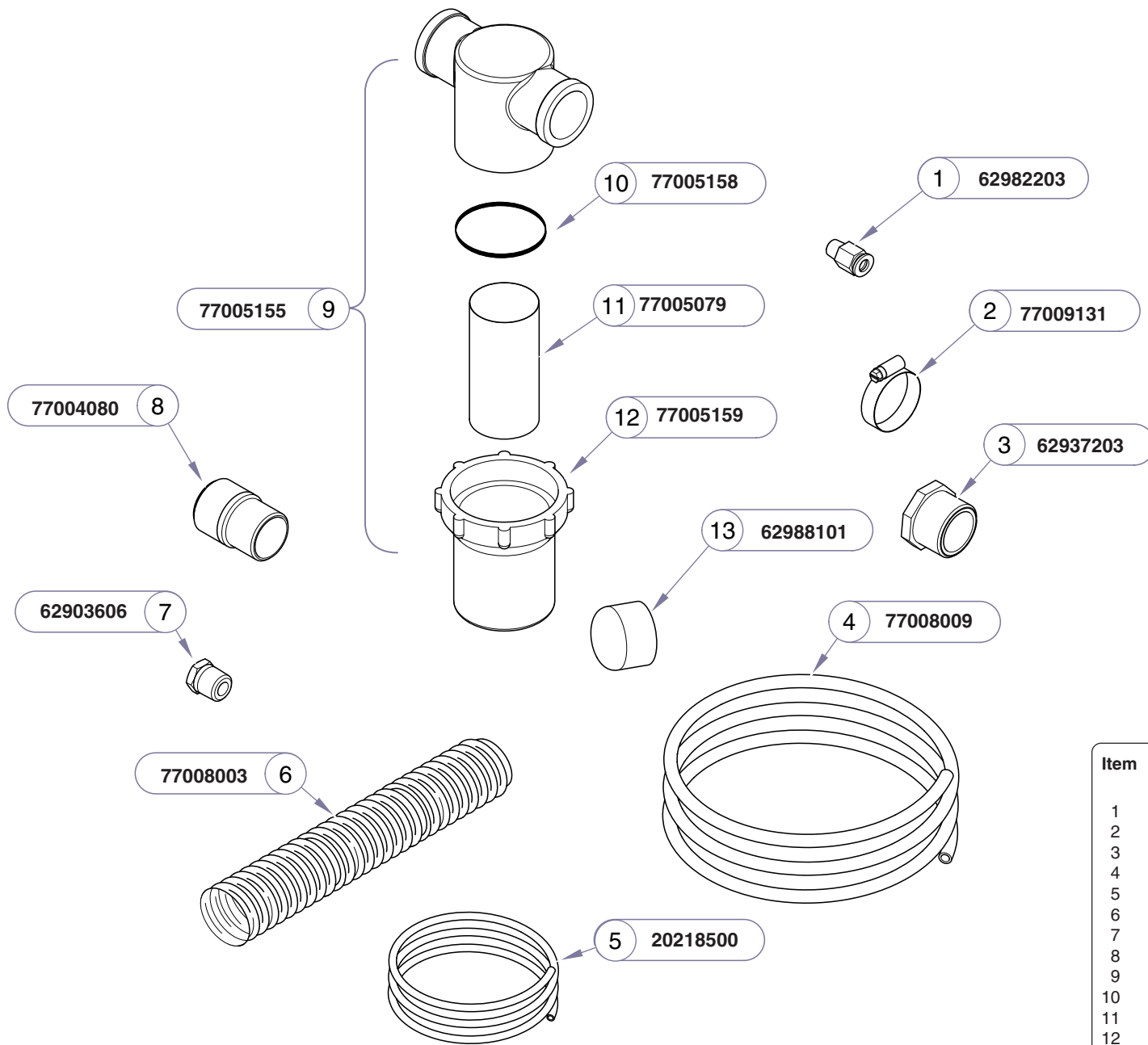


Item	Description	Qty.
	77000145 Kit (includes items 1 - 7)	
1	• Quick Connect Fitting (1/4"QC x 1/4")	1
2	• Clamp (1")	4
3	• Lock Nut	3
4	• Rubber Feet	3
5	• Poly Tube (1/4" OD x 6')	1
6	• Exhaust Hose (1" ID x 8')	1
7	• Nipple (3/4" NPT)	2
8	• Bushing (1/2"M x 1/4F)	1

Always Specify Model & Serial Number

Single Vacuum Installation Kit

Models:	CV3	CV3R	CV5	CV5R	All
Serial Numbers:	0705CV30001 thru Present	0705CV3R0001 thru Present	0705CV50001 thru Present	0705CV5R0001 thru Present	V785000 thru Present



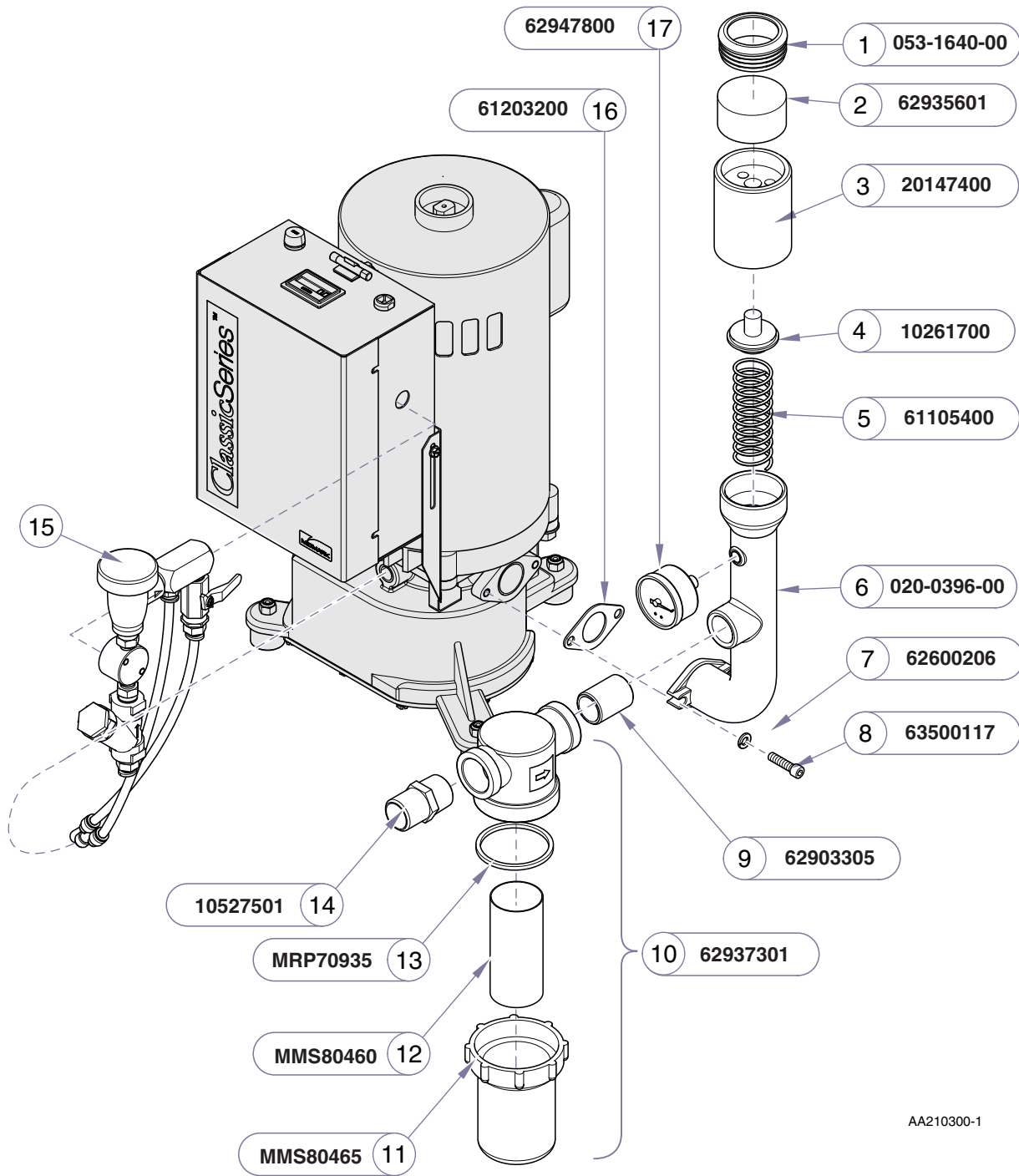
AA210100

Item	Description	Qty.
20204600 Kit (includes items 1 - 9)		
1	• Quick Connect Fitting (3/8" QC x 1/4")	2
2	• Clamp (2")	4
3	• Pipe Plug (1 1/4" NPT)	1
4	• Poly Tube (3/8" OD x 5')	1
5	• Drain Hose (3/8" OD x 8' [sold in inches])	96
6	• Intake Hose (1 1/2" ID x 8')	1
7	• Bushing (1/2" MNPT x 1/4" FNPT)	1
8	• Nipple, PVC (1 1/4")	4
9	• In-Line Strainer Assembly	1 set
10	• Gasket	1
11	• Strainer	1
12	• Bowl	1
13	Cap (1 1/4" NPT)	1

Always Specify Model & Serial Number

Models:	CV6	CV6R	CV10	CV10R	All
Serial Numbers:	0705CV60001 thru Present	0705CV6R0001 thru Present	0705CV10001 thru Present	0705CV10R0001 thru Present	V785000 thru Present

**Twin Platform
Installation Kit**



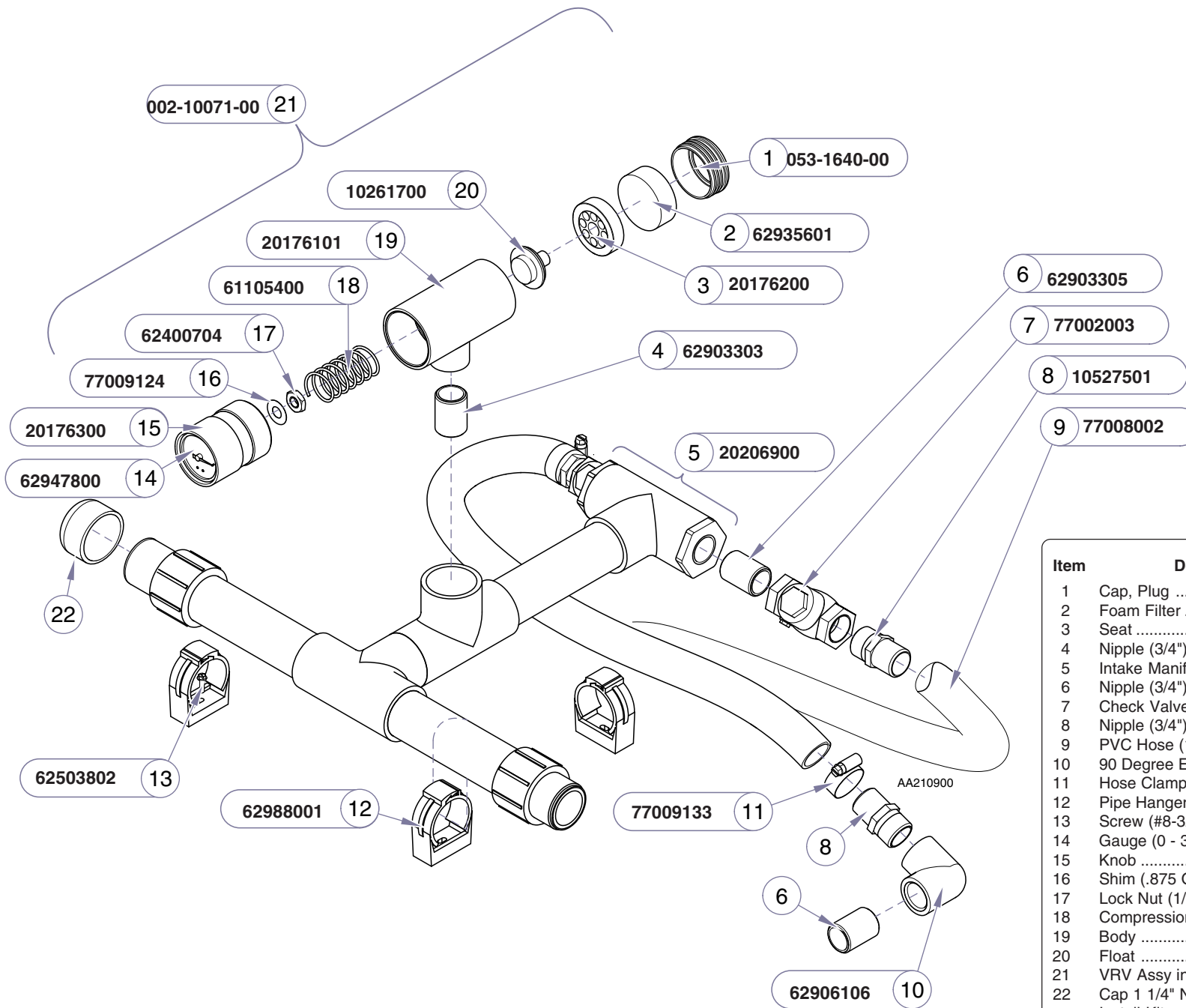
Item	Description	Qty.
1	2" Black Plug	1
2	VRV Foam Filter (2" OD x 1"L)	1
3	VRV Body	1
4	VRV Float	1
5	Compression Spring	1
6	Intake Manifold	1
7	Lock Washer (1/4 PLD)	2
8	Screw (1/4"-20 x 1")	2
9	Nipple (3/4")	1
10	Vacuum Inlet Strainer Assembly	1
11	Bowl	1
12	Strainer	1
13	Gasket	1
14	Nipple (3/4")	1
15	"Refer to Vacuum Solenoid Assembly"	1
16	Manifold Gasket	1
17	Pressure Gauge	1

Always Specify Model & Serial Number

AA210300-1

Single Vacuum Intake Assembly

Models:	CV3	CV3R	CV5	CV5R	All
Serial Numbers:	0705CV30001 thru Present	0705CV3R0001 thru Present	0705CV50001 thru Present	0705CV5R0001 thru Present	V785000 thru Present

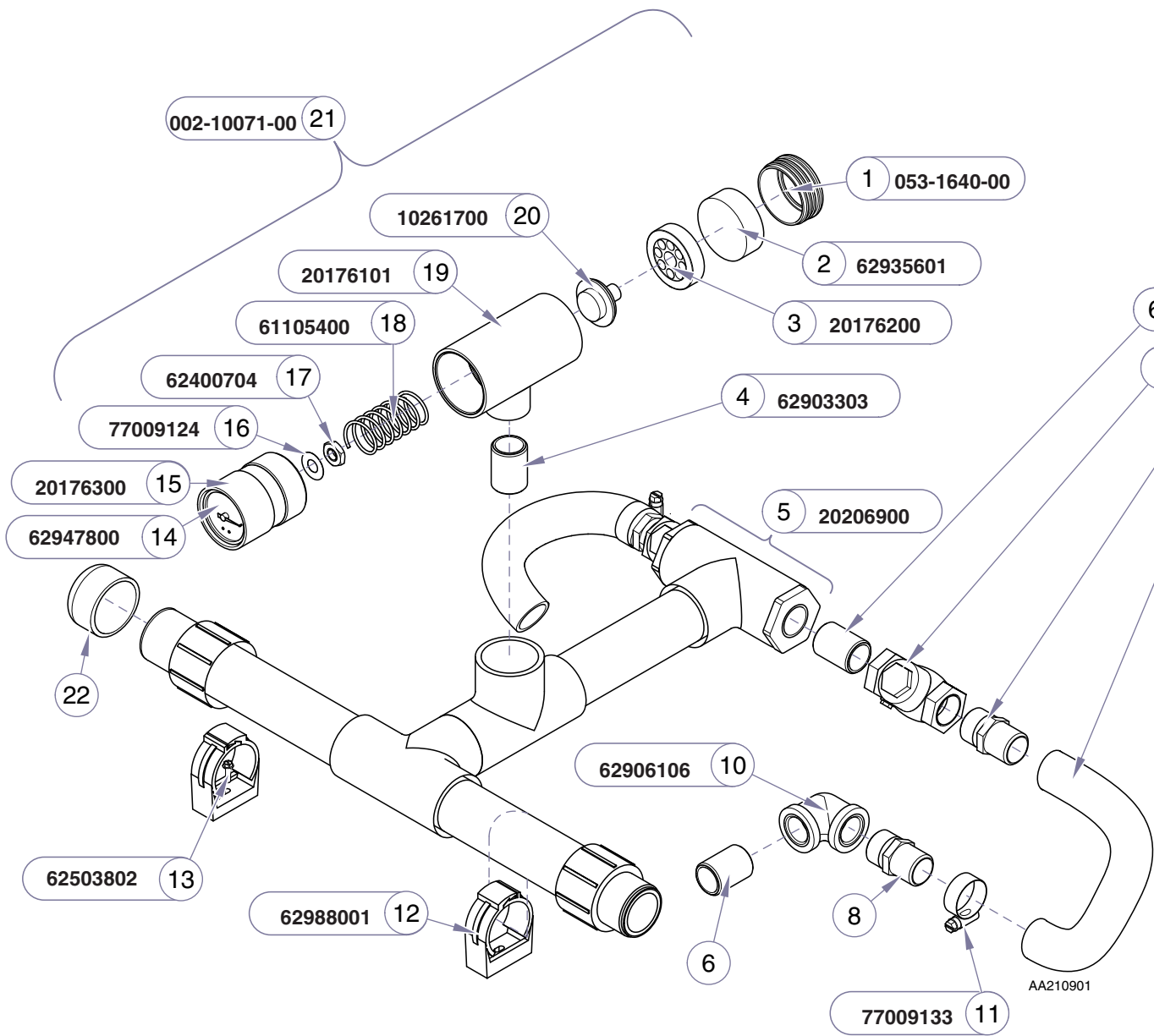


Item	Description	Qty.
1	Cap, Plug	1
2	Foam Filter	1
3	Seat	1
4	Nipple (3/4")	1
5	Intake Manifold Assembly	1
6	Nipple (3/4")	4
7	Check Valve	2
8	Nipple (3/4")	2
9	PVC Hose (1" ID x 26")(sold by the inch)	2
10	90 Degree Elbow	2
11	Hose Clamp	4
12	Pipe Hanger	3
13	Screw (#8-32 x 5/8")	3
14	Gauge (0 - 30"Hg)	1
15	Knob	1
16	Shim (.875 OD x .406 ID x .010 THK)	1
17	Lock Nut (1/8" NPT)	1
18	Compression Spring	1
19	Body	1
20	Float	1
21	VRV Assy includes Items 1-3 & 15-21	1
22	Cap 1 1/4" NPT.. Refer to: Twin Platform Install Kit.....	1

Always Specify Model & Serial Number

Models:	CV6	CV6R	CV10	CV10R
Serial Numbers:	0705CV60001 thru 0902CV60228	0705CV6R0001 thru 0903CVR0777	0705CV10001 thru 0902CV100109	0705CV10R0001 thru 0902CV10R0401

Twin Intake Manifold Assembly

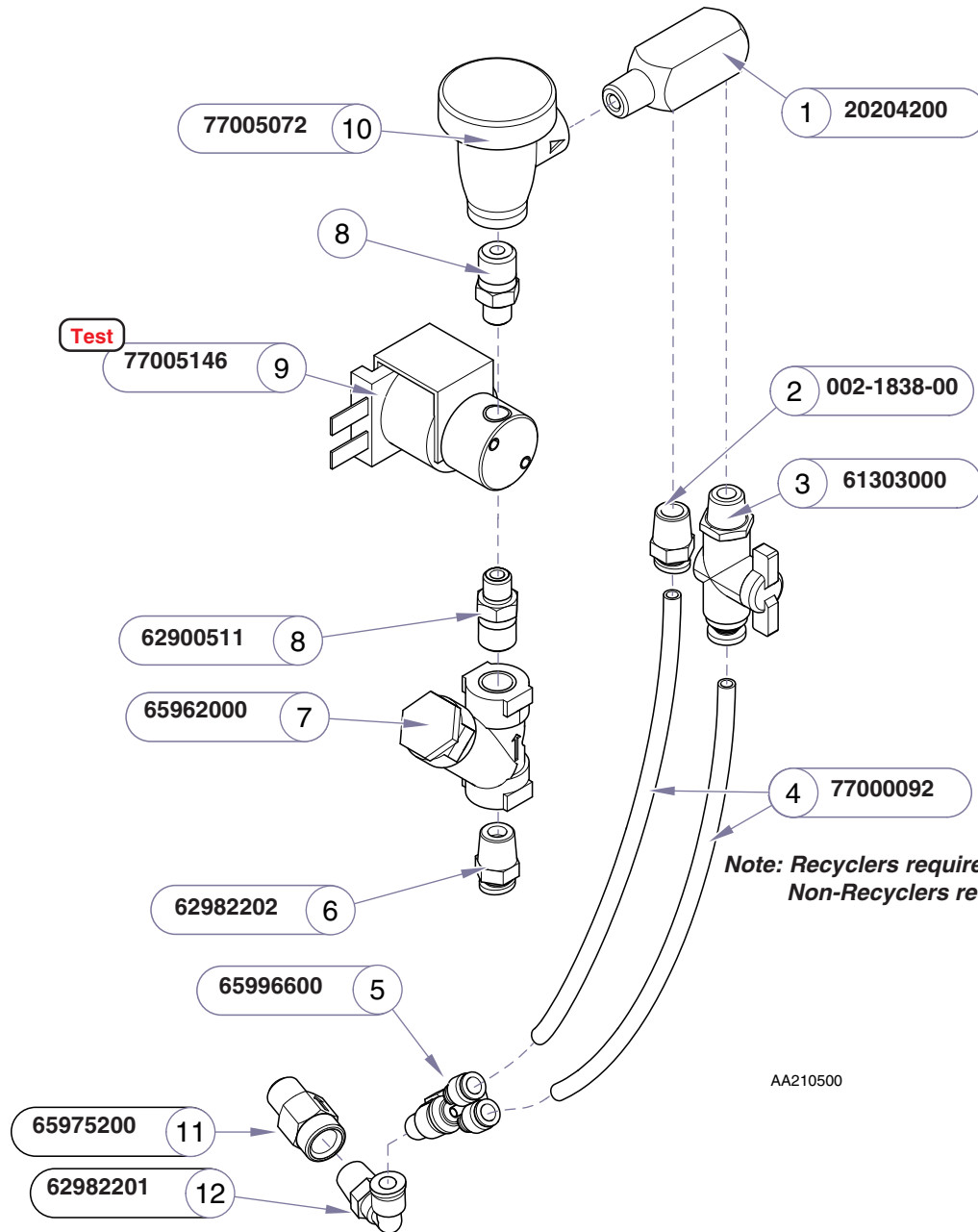


Item	Description	Qty.
1	Cap, Plug	1
2	Foam Filter	1
3	Seat	1
4	Nipple (3/4")	1
5	Intake Manifold Assembly	1
6	Nipple (3/4")	4
7	Check Valve	2
8	Nipple (3/4")	2
9	PVC Hose (1" ID x 17")(sold by the inch)	2
10	90 Degree Brass Elbow	2
11	Hose Clamp	4
12	Pipe Hanger	3
13	Screw (#8-32 x 5/8")	3
14	Gauge (0 - 30"Hg)	1
15	Knob	1
16	Shim (.875 OD x .406 ID x .010 THK)	1
17	Lock Nut (1/8" NPT)	1
18	Compression Spring	1
19	Body	1
20	Float	1
21	VRV Assy includes Items 1-3 & 15-21	1
22	Cap 1 1/4" NPT.. Refer to: Twin Platform Install Kit	1

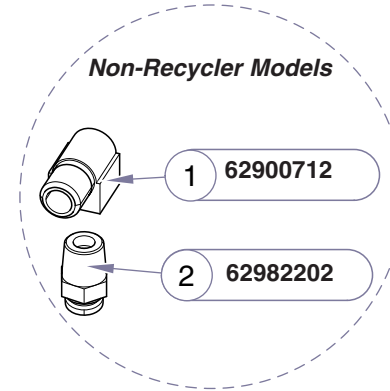
Always Specify Model & Serial Number

Twin Intake Manifold Assembly

Models:	CV6	CV6R	CV10	CV10R	All
Serial Numbers:	0903CV60229 thru Present	0903CVR0785 thru Present	0902CV100111 thru Present	0902CV10R0404 thru Present	V785000 thru Present



**Note: Recyclers require 2 poly tubes.
 Non-Recyclers require 1 poly tube.**

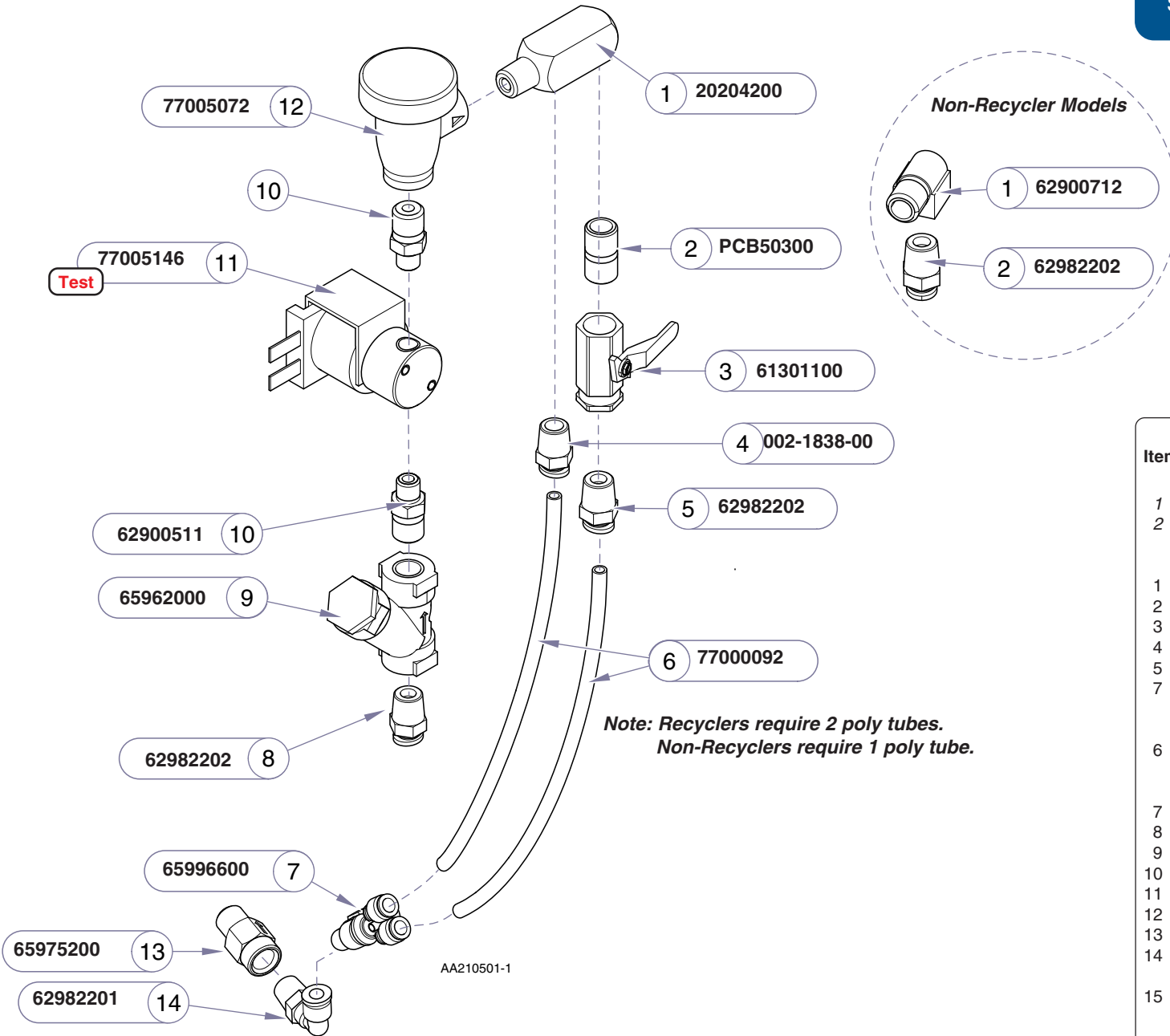


Item	Description	Qty
<i>Non-Recycler Models</i>		
1	Elbow	1
2	Quick Connect	1
<i>Recycler Models</i>		
1	Double Street Elbow	1
2	Flow Control Assembly	1
3	Ball Valve	1
5	Y-Quick Connect Fitting	1
<i>All Models</i>		
4	Poly Tube (1/4" OD)(sold by the inch)	AR
6	Quick Connect Fitting	1
7	Y-Strainer	1
8	Nipple (1/4" NPT x 1/8" NPT)	2
9	Solenoid	1
10	Vacuum Breaker	1
11	Check Valve	1
12	90 Degree Elbow	1
Not Shown		
13	Vacuum Breaker repair Kit (77005073)	1

Always Specify Model & Serial Number

Models:	CV3	CV3R	CV5	CV5R
Serial Numbers:	0705CV30001 thru 0902CV30702	0705CV3R0001 thru 0902CV3R1136	0705CV50001 thru 0901CV50372	0705CV5R0001 thru 0902CV5R0807

**Single Vacuum Solenoid
 Assembly**

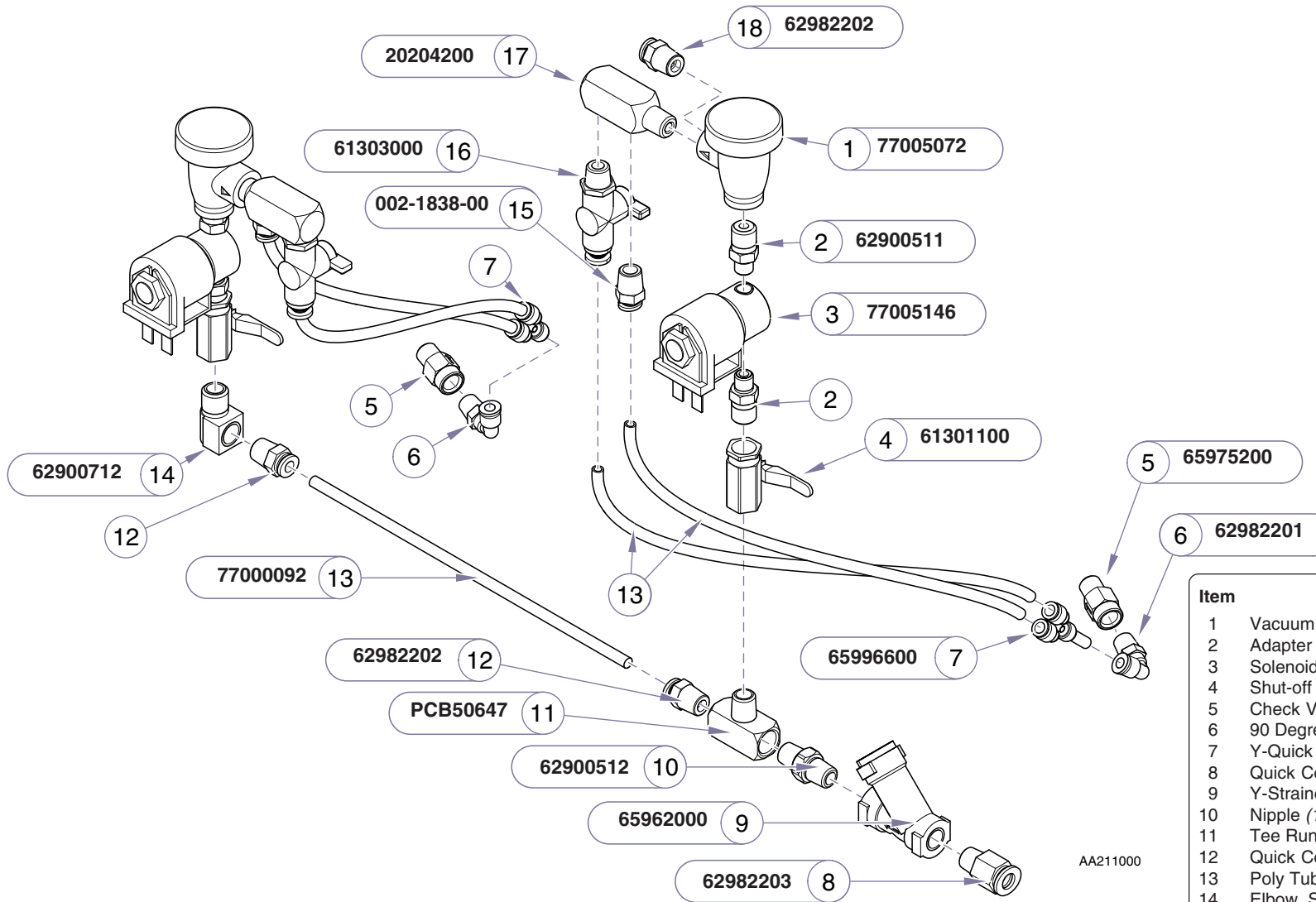


Item	Description	Qty
<i>Non-Recycler Models</i>		
1	Elbow	1
2	Quick Connect	1
<i>Recycler Models</i>		
1	Double Street Elbow	1
2	Nipple	1
3	Shut-Off Valve	1
4	Flow Control Assembly	1
5	QC Connector	1
7	Y-Quick Connect Fitting	1
<i>All Models</i>		
6	Poly Tube (1/4" OD)(sold by the inch) AR (CV3 - 11"), (CV3R - 9.5" & 11"), (CV5 - 12.5"), (CV5R - 11" & 12.5")	1
7	Y-Quick Connect Fitting	1
8	Quick Connect Fitting	1
9	Y-Strainer	2
10	Nipple (1/4" NPT x 1/8" NPT)	2
11	Solenoid	1
12	Vacuum Breaker	1
13	Check Valve	1
14	90 Degree Elbow	1
Not Shown		
15	Vacuum Breaker repair Kit (77005073)	1

Always Specify Model & Serial Number

Single Vacuum Solenoid Assembly

Models:	CV3	CV3R	CV5	CV5R	All
Serial Numbers:	0903CV30706 thru Present	0903CV3R1139 thru Present	0901CV50373 thru Present	0902CV5R0809 thru Present	V785000 thru Present

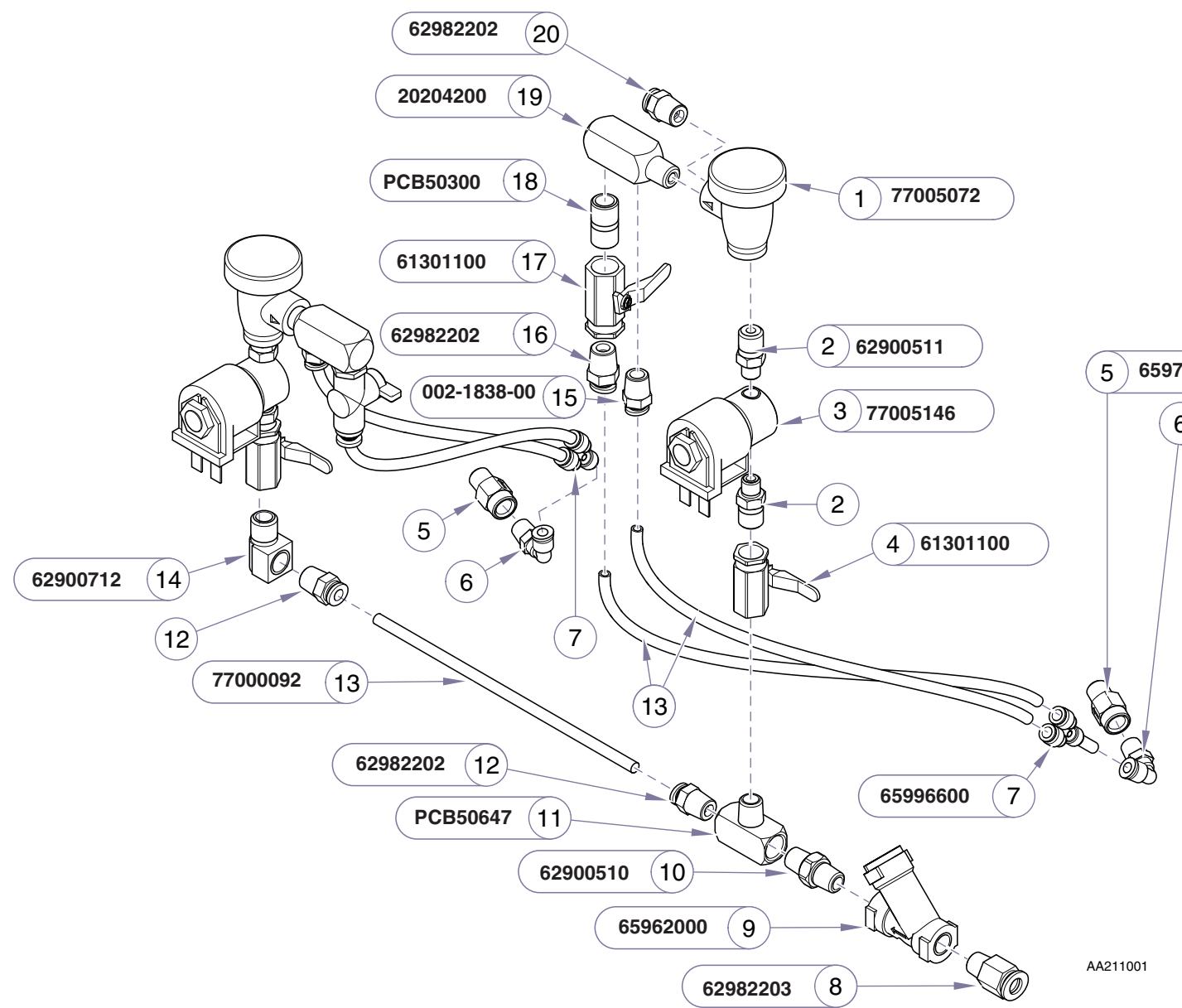


Item	Description	Qty.
1	Vacuum Breaker	2
2	Adapter	4
3	Solenoid	2
4	Shut-off Valve	2
5	Check Valve	2
6	90 Degree Elbow	2
7	Y-Quick Connect Fitting (Recycler Only)	2
8	Quick Connect	1
9	Y-Strainer	1
10	Nipple (1/4" NPT x 1/4" NPT)	1
11	Tee Run (1/4")	1
12	Quick Connect	2
13	Poly Tubing (1/4" OD)(sold by the inch) ...	AR
14	Elbow, Street (1/4" NPT)	1
15	Flow Control Assembly	1
16	Ball Valve (Recycler Only)	1
17	Double Street Elbow (Recycler Only)	1
18	Quick Connect (Non-Recycler Only)	1
Not Shown		
19	Vacuum Breaker repair Kit (77005073)	1

Always Specify Model & Serial Number

Models:	CV6	CV6R	CV10	CV10R
Serial Numbers:	0705CV60001 thru 0902CV60228	0705CV6R0001 thru 0903CV6R0777	0705CV10001 thru 0902CV100109	0705CV10R0001 thru 0902CV10R0401

**Twin Vacuum Solenoid
Assembly**



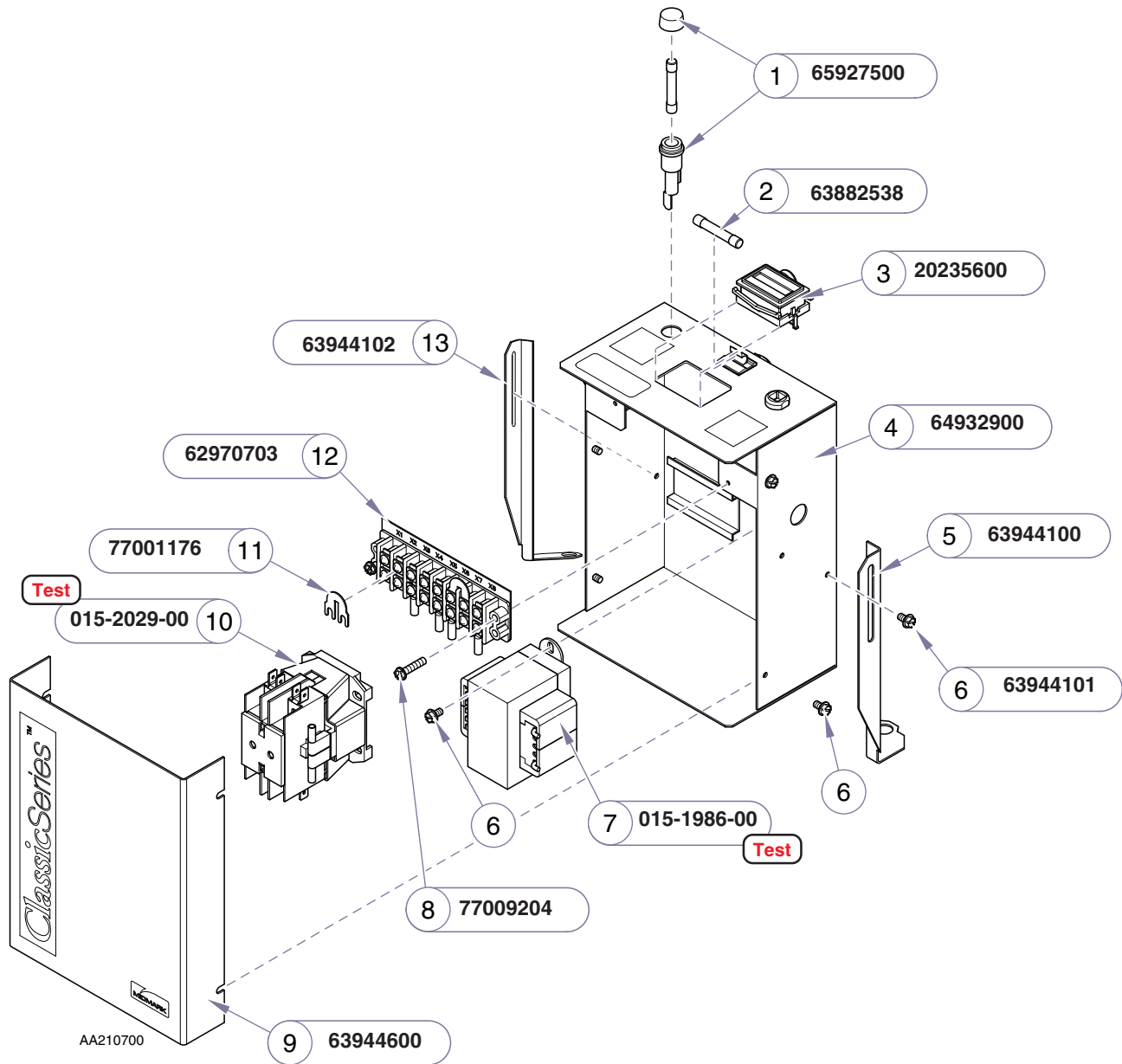
Item	Description	Qty.
1	Vacuum Breaker	2
2	Adapter	4
3	Solenoid	2
4	Shut-off Valve	2
5	Check Valve	2
6	90 Degree Elbow	2
7	Y-Quick Connect Fitting (Recycler Only)	2
8	Quick Connect	1
9	Y-Strainer	1
10	Nipple (1/4" NPT x 1/4" NPT)	1
11	Tee Run (1/4")	1
12	Quick Connect	12
13	Poly Tubing (1/4" OD)(sold by the inch) ... AR	
	CV6 - 11"(x2) & 12.5"	
	CV6R - 11" & 12.5"(x4)	
	CV10 - 11"(x2) & 12.5"	
	CV10R - 11" & 12.5"(x4)	
14	Elbow, Street (1/4" NPT)	1
15	Flow Control Assembly	1
16	QC Connector	2
17	Shut-Off Valve (Recycler Only)	2
18	Nipple	2
19	Double Street Elbow (Recycler Only)	2
20	Quick Connect (Non-Recycler Only)	2
	Not Shown	
21	Vacuum Breaker repair Kit (77005073)	1

AA211001

Twin Vacuum Solenoid Assembly

Models:	CV6	CV6R	CV10	CV10R	All
Serial Numbers:	0903CV60229 thru Present	0903CV6R0785 thru Present	0902CV100111 thru Present	0902CV10R0404 thru Present	V785000 thru Present

Refer To:	Page
Fuse	B-2
Transformer (Low Voltage)	B-4
Contactor	B-12



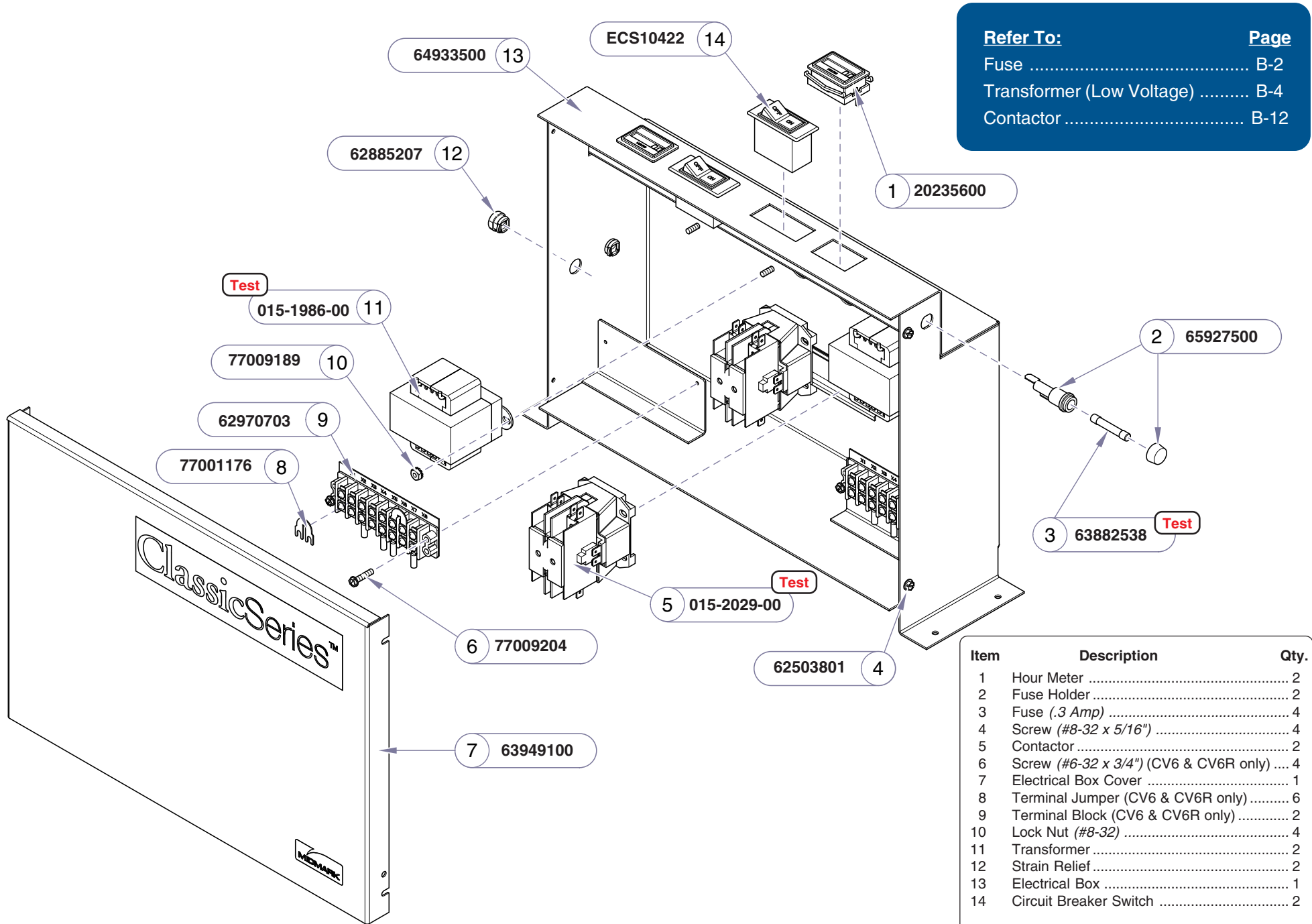
Item	Description	Qty.
1	Fuse Holder	1
2	Fuse (.3 Amp)	2
3	Hour Meter	1
4	Electrical Box	1
5	Right Hand Bracket	1
6	Screw (#8-32 x 5/16")	8
7	Transformer	1
8	Screw (#6-32 x 3/4") (CV3 & CV3R only) ...	2
9	Electrical Box Cover	1
10	Contactor	1
11	Terminal Jumper (CV3 & CV3R only)	3
12	Terminal Block (CV3 & CV3R only)	1
13	Left Hand Bracket	1

Always Specify Model & Serial Number

Note: CV5 / CV5R

Models:	CV3	CV3R	CV5	CV5R	All
Serial Numbers:	0705CV30001 thru Present	0705CV3R0001 thru Present	0705CV50001 thru Present	0705CV5R0001 thru Present	V785000 thru Present

**Single
Electrical Box**



Refer To:	Page
Fuse	B-2
Transformer (Low Voltage)	B-4
Contactor	B-12

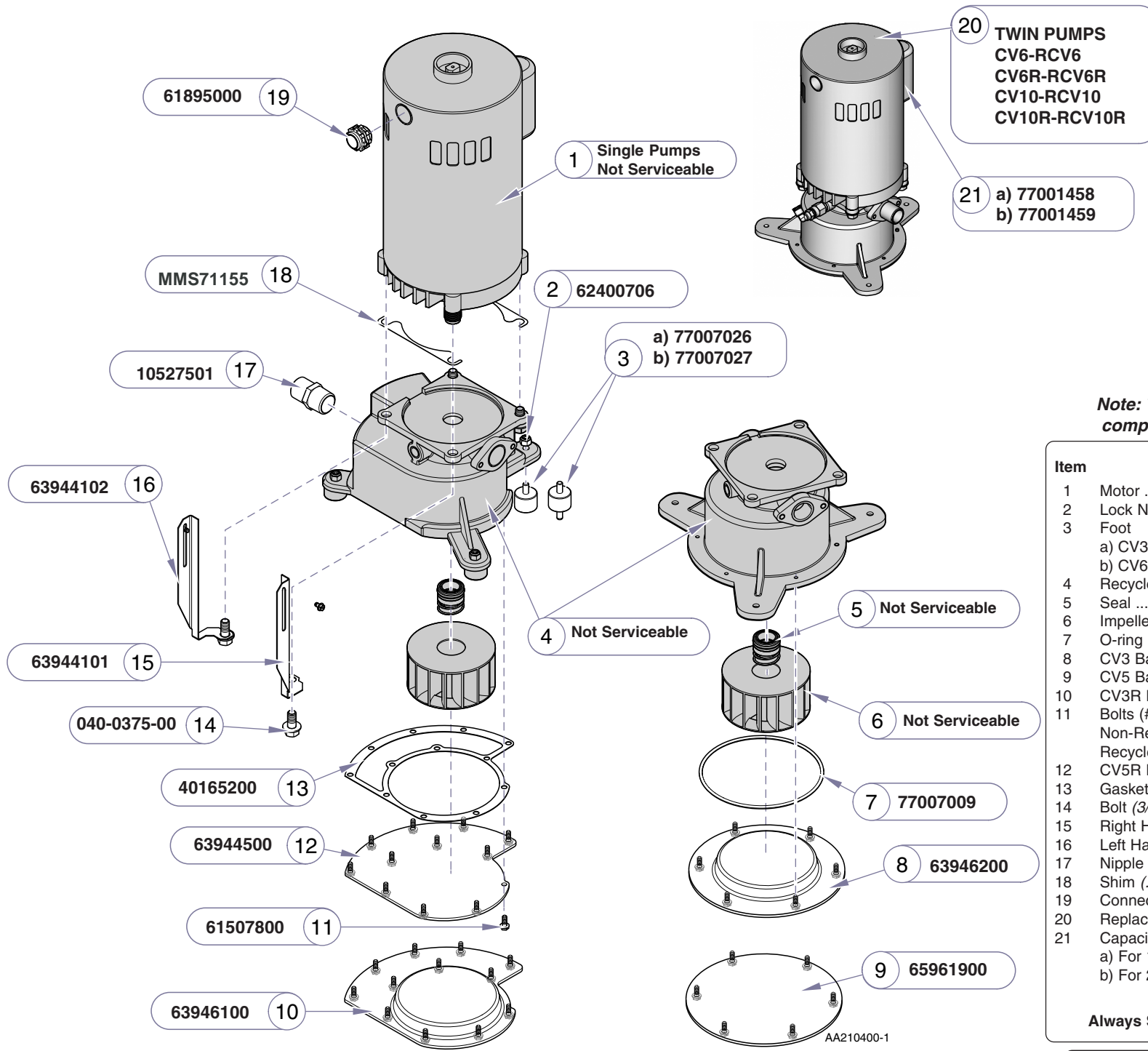
Item	Description	Qty.
1	Hour Meter	2
2	Fuse Holder	2
3	Fuse (.3 Amp)	4
4	Screw (#8-32 x 5/16")	4
5	Contactor	2
6	Screw (#6-32 x 3/4") (CV6 & CV6R only)	4
7	Electrical Box Cover	1
8	Terminal Jumper (CV6 & CV6R only)	6
9	Terminal Block (CV6 & CV6R only)	2
10	Lock Nut (#8-32)	4
11	Transformer	2
12	Strain Relief	2
13	Electrical Box	1
14	Circuit Breaker Switch	2

Always Specify Model & Serial Number

AA210600

E-11 **Twin Electrical Box**

Models:	CV6	CV6R	CV10	CV10R	All
Serial Numbers:	0705CV60001 thru Present	0705CV6R0001 thru Present	0705CV10001 thru Present	0705CV10R0001 thru Present	V785000 thru Present



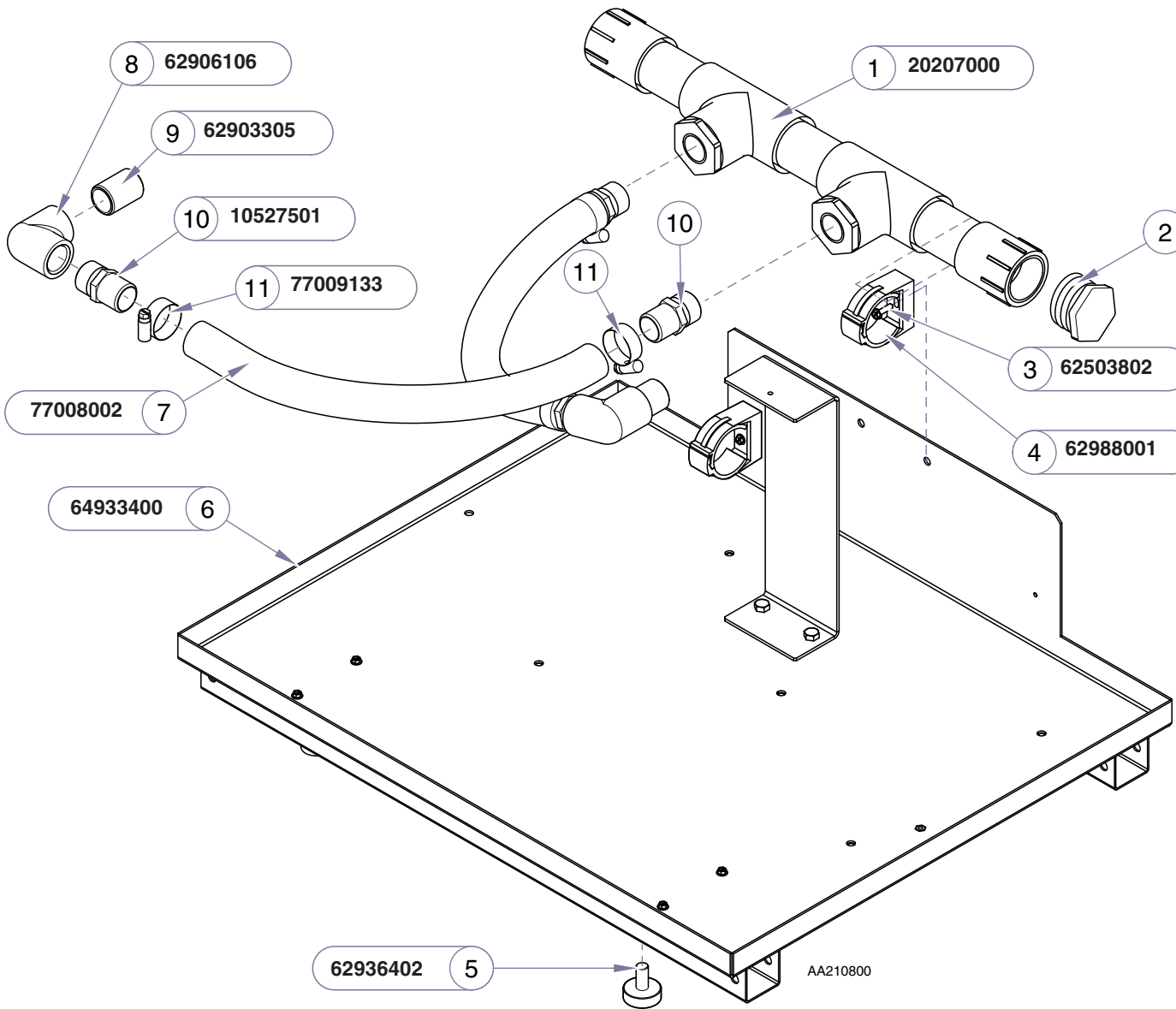
Note: Twin units require two complete motor/pump assemblies.

Item	Description	Qty.
1	Motor	1
2	Lock Nut	3
3	Foot	
	a) CV3(R) CV5(R)	3
	b) CV6(R) CV10(R)	3
4	Recycler and Non-Recycler Housings	1
5	Seal	1
6	Impeller	1
7	O-ring (<i>Non-Recycler Only</i>)	1
8	CV3 Baseplate	1
9	CV5 Baseplate	1
10	CV3R Baseplate	1
11	Bolts (#10-24 x 1/2")	
	Non-Recycler (<i>CV3 & CV5</i>)	6
	Recycler (<i>CV3R & CV5R</i>)	12
12	CV5R Baseplate	1
13	Gasket (<i>Recycler Only</i>)	1
14	Bolt (3/8"-16 x 3/4")	4
15	Right Hand Bracket (<i>Single Units Only</i>)	1
16	Left Hand Bracket (<i>Single Units Only</i>)	1
17	Nipple (3/4")	1
18	Shim (.005)	Varies
19	Connector	1
20	Replacement Pumps	(Twin Units Only)
21	Capacitor	
	a) For 1HP motors	1
	b) For 2HP motors	1

Always Specify Model & Serial Number

Models: All
Serial Numbers:

Pump Assembly Components

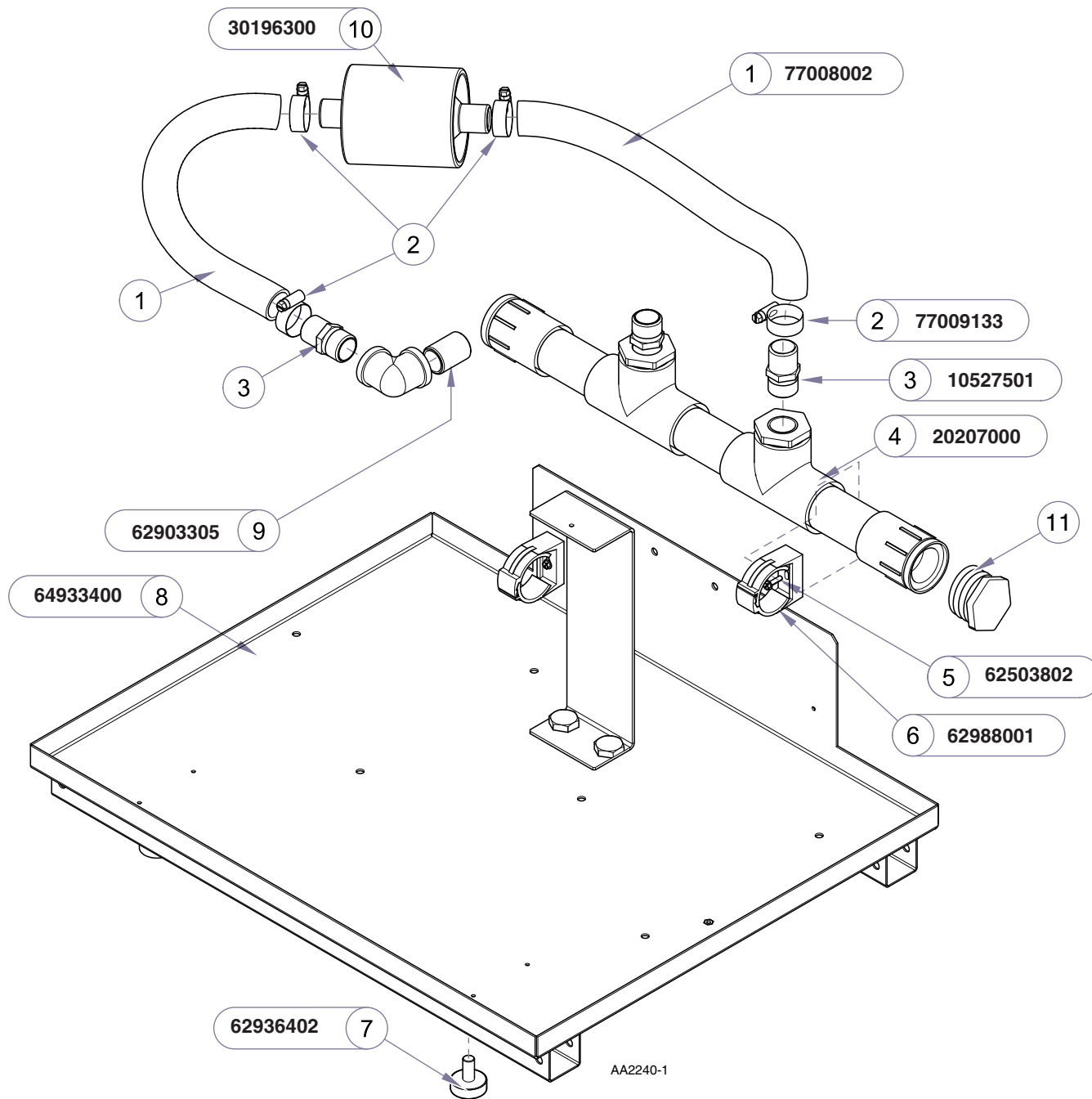


Item	Description	Qty.
1	Exhaust Manifold	1
2	Pipe Plug ... Refer to: Twin Platform Install kit	1
3	Screw (#8-32 x 5/8")	2
4	Pipe Hanger	2
5	Rubber Foot	4
6	Platform	1
7	PVC Hose 1" ID (sold by the inch)	AR
8	90 Degree Elbow	2
9	Nipple (3/4")	2
10	Nipple (3/4")	4
11	Clamp	4

Always Specify Model & Serial Number

**Twin Exhaust
Manifold Assembly**

Models:	CV6	CV6R	CV10	CV10R
Serial Numbers:	0705CV60001 thru 0808CV60180	0705CV6R0001 0808CV6R0594	0705CV10001 thru 0808CV100080	0705CV10R0001 thru 0808CV10R0308



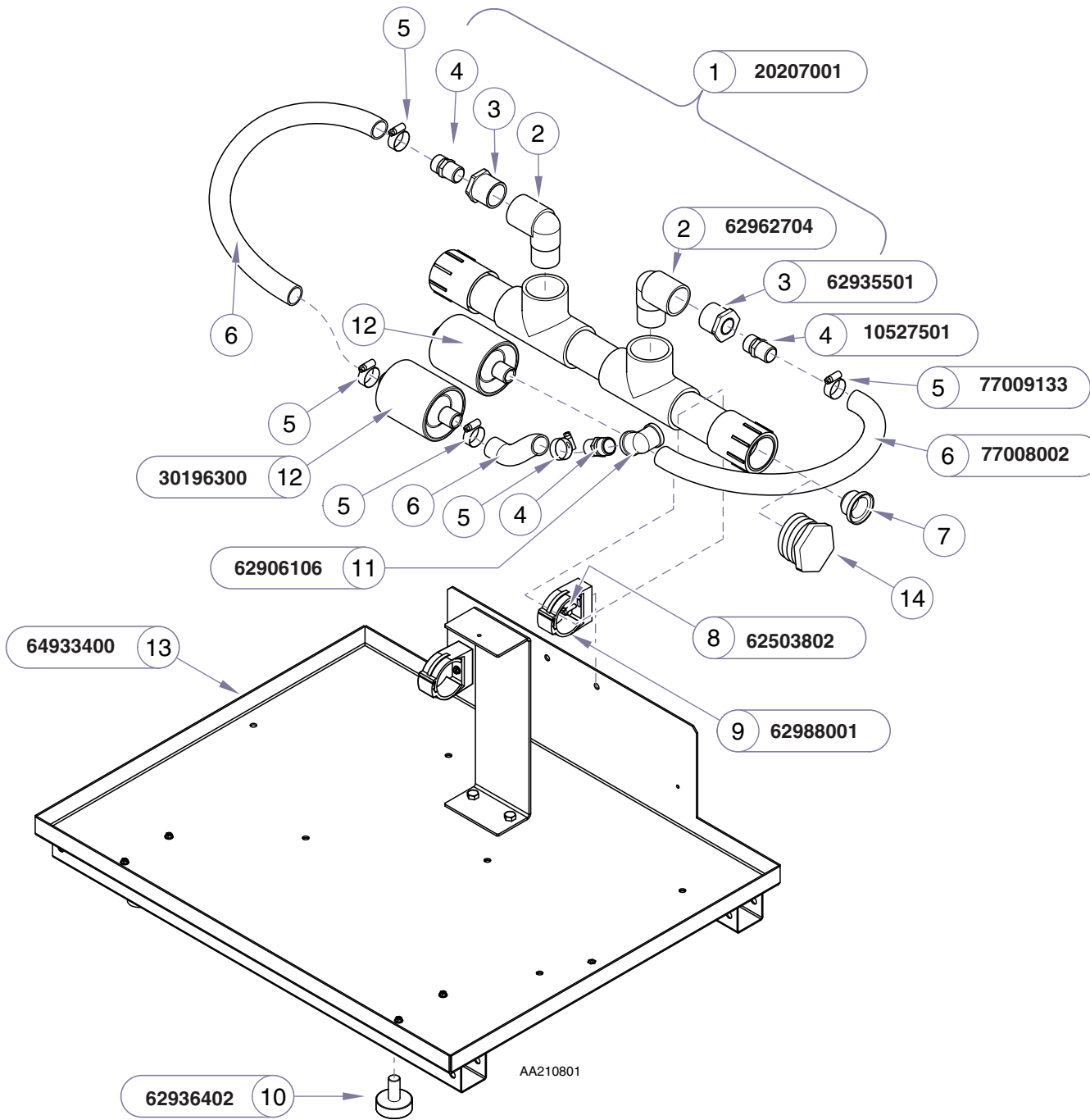
Item	Description	Qty.
1	PVC Hose 1" ID (sold by the inch)	AR
2	Clamp	8
3	Nipple (3/4")	4
4	Exhaust Manifold	1
5	Screw	2
6	Pipe Hanger	2
7	Rubber Foot	4
8	Platform	1
9	Nipple (3/4")	2
10	Exhaust Silencer	2
11	Pipe Plug ... Refer to: Twin Platform Install kit	

Always Specify Model & Serial Number

Models:	CV6	CV6R	CV10	CV10R
Serial Numbers:	0808CV60181 thru 0902CV60228	0809CV6R0595 thru 0903CV6R0777	0808CV100081 thru 0902CV100109	0808CV10R0308 thru 0902CV10R0401

**Twin Exhaust
Manifold Assembly**

E-13.1



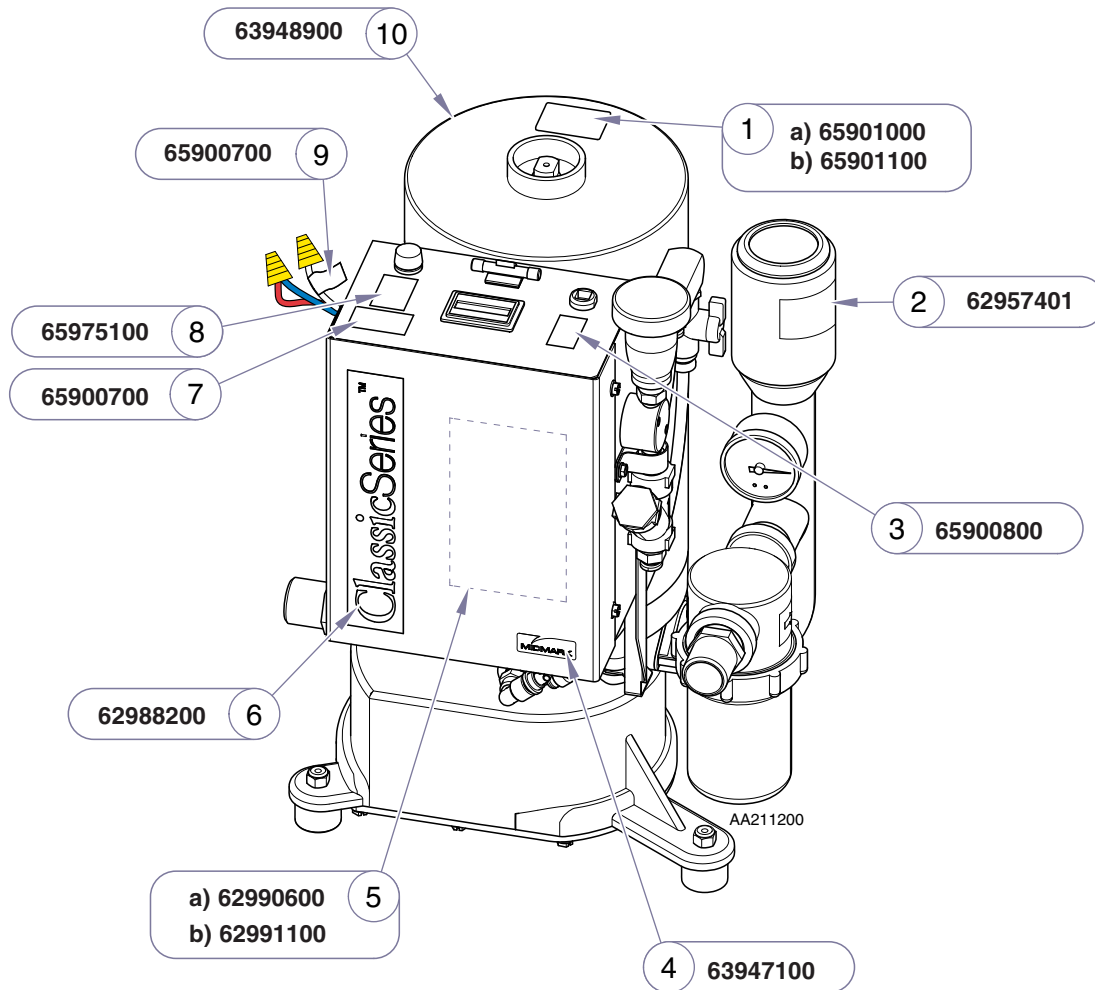
Item	Description	Qty.
1	Exhaust Manifold <i>Includes Items 2 thru 4</i>	1
2	• Elbow	2
3	• Reducer	2
4	• Nipple	AR
5	Clamp	8
6	PVC Hose 1"ID (sold by the inch) long- 24" (x2) Short- 3" (x2)	AR
7	Shipping Cap used on early units <i>Note: Plug thrown away during installation.</i>	
8	Pipe Hanger	2
9	Screw	2
10	Rubber Foot	4
11	Elbow	2
12	Exhaust Silencer	2
13	Platform	1
14	Pipe Plug ... Refer to: Twin Platform Install kit	

Always Specify Model & Serial Number

E-13.2

Twin Exhaust Manifold Assembly

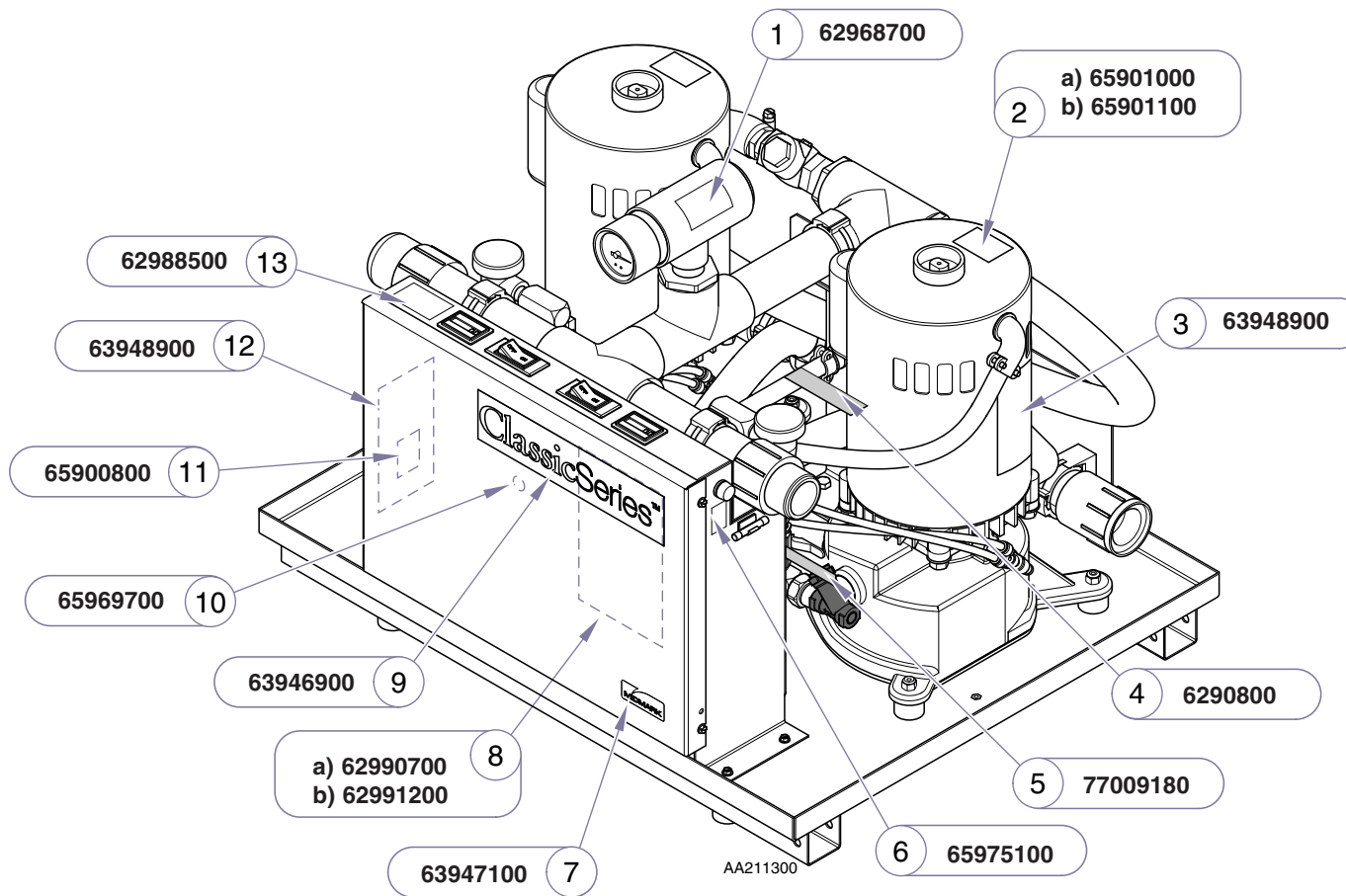
Models:	CV6	CV6R	CV10	CV10R	All
Serial Numbers:	0903CV60229 thru Present	0903CV6R0785 thru Present	0902CV100111 thru Present	0902CV10R0404 thru Present	V785000 thru Present



Item	Description	Qty.
1	a) 1 HP Decal	1
	b) 2 HP Decal	1
2	VRV, Factory Set Label	1
3	Low Voltage	1
4	Midmark Logo	1
5	Electrical Diagram (Inside Cover)	
	a) CV3 and CV3R	1
	b) CV5 and CV5R	1
6	ClassicSeries® Label	1
7	Caution, Shock Label	1
8	Fuse Replacement Lab	1
9	24V Light Label	1
10	Serial Number Label	1
	<i>Not Shown</i>	
11	77009180 - Caution Tag	1
12	77009306 - 220VAC Con, Tag	1
Always Specify Model & Serial Number		

Models:	CV3	CV3R	CV5	CV5R	All
Serial Numbers:	0705CV30001 thru Present	0705CV3R0001 thru Present	0705CV50001 thru Present	0705CV5R0001 thru Present	V785000 thru Present

**Single Model
Label Locations**



Item	Description	Qty.
1	VRV Factory Set Label	1
2	a) 1 HP Decal	1
	b) 2 HP Decal	1
3	Serial Number Label	1
4	Electrical Hookup Label	1
5	Caution Tag	1
6	Fuse Replacement Label	1
7	Midmark Logo	1
8	Electrical Diagram (Inside Cover)	
	CV6 / CV6R	1
	CV10 / CV10R	1
9	ClassicSeries® Label	1
10	Earth (Ground) Label	1
11	Low Voltage	1
12	Platform Serial Label	1
13	Platform Warning Label	1
	Not Shown	
14	65976800 Hot Neutral Wire	15
15	MPM60658 24V Light Label	1

Always Specify Model & Serial Number

**Twin Model
Label Locations**

Models:	CV6	CV6R	CV10	CV10R	All
Serial Numbers:	0705CV60001 thru Present	0705CV6R0001 thru Present	0705CV10001 thru Present	0705CV10R0001 thru Present	V785000 thru Present

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