Exploded Parts Diagrams

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Chapter 1

Carriage Assembly
Chapter 1 Carriage Assembly

Carriage Assembly

The Vector Carriage Frame assembly has three major components. The main outer frame which moves up and down the carwash rails, the shuttle frame which also houses the mount for the “butterfly” components and finally the shuttle beams that the shuttle frame moves side-to-side on.

Carriage Frame Assembly Complete

Carriage Frame Assembly Exploded

Shuttle Frame: 102564
Butterfly Mount
(shown for identification purposes only)

Shuttle Beams: 6061
(With holes for Picket Fence)

Outer Frame: 102312
Chapter 1 Carriage Assembly

Carriage Assembly

The Vector Carriage has a series of fiberglass pieces that make up the outer shell. Image below shows frame side-plates and sonar units.

Shell Components Complete

Parts Not Shown:
- 6480: Entrance Panel Light Package

Shell Components Exploded

<table>
<thead>
<tr>
<th>1FSTNR400</th>
<th>6318</th>
<th>6474</th>
<th>1FSTNR-HH054</th>
<th>1PLSTC-VC234</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.jpg" alt="Image" /></td>
<td><img src="image2.jpg" alt="Image" /></td>
<td><img src="image3.jpg" alt="Image" /></td>
<td><img src="image4.jpg" alt="Image" /></td>
<td><img src="image5.jpg" alt="Image" /></td>
</tr>
</tbody>
</table>
Chapter 1 Carriage Assembly

Carriage Assembly

The Carriage Drive assembly moves the Carriage from one end of the carwash rails to the other end.

<table>
<thead>
<tr>
<th>102337</th>
<th>102335</th>
<th>1ELECT-SN365</th>
<th>Coupling, Key and Shafts</th>
<th>1ELECT-SN815</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

Parts not shown: 1WHEEL-TB550 (Inner Tube)

Fasteners not shown: 1FSTNR-HH398 1WASHR-FL498 1NUT-LC214

Plastic Nuts: Included

Coupling Fasteners: Included

Oil Reservoir

Cable for Encoder

Cable for Over-Travel

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Chapter 1 Carriage Assembly

Carriage Assembly

The Vector Shuttle Drive assembly moves the manifold arms from side-to-side.

Carriage Shuttle Assembly Exploded

Parts Not Shown:
- 1CLAMP100: 1-1/2" Conduit Clamp
- 1ELECT-JB105: Wire Junction Block w/ 60' Cable

Drive Belt Assembly
(Details on following Pages)

Picket Fence Assembly
(Details on following Pages)

<table>
<thead>
<tr>
<th>102743 and 1CAP135</th>
<th>1CAP135</th>
<th>108009</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Image 1" /></td>
<td><img src="image2" alt="Image 2" /></td>
<td><img src="image3" alt="Image 3" /></td>
</tr>
</tbody>
</table>
Chapter 1 Carriage Assembly

Picket Fence Assembly Complete

The Picket Fence detects the Shuttle Proximity Sensor location and movement to determine the side-to-side position of the Carriage Assembly.

Picket Fence Assembly Exploded

Part #6951 acts as a nut to secure the Picket Fence to the rail.

Helpful Hint

6023: Shown above has holes for the Picket Fence
6061: Not shown, has NO holes
Chapter 1 Carriage Assembly

Carriage Assembly

The Shuttle Drive Belt Assembly moves the Arms from side-to-side in the Carriage Assembly.

Shuttle Belt Drive Assembly Exploded

1PULLY250
1/4" key not included

6441, 6427 and 6428

6346 Axle

6248 Sleeve

1ELECT-FS176

1WASHR500

1FSTNR-HH392

1FSTNR-HH414

Securing the Belt to the Mount
Chapter 1 Carriage Assembly

Boom Assembly

Boom Assembly Main Components Exploded

1HOSE-HY022 (28-1/2"
1HOSE-HY034 (50-5/16"
6059
6101
102320 (Long Chase)
6101
1HOSE-HY038 (55-3/16"
1HOSE-HY026 (39"
1ELECT-FS267
1ELECT-FS267
1ELECT-FS265
Ribbed Hose
Chapter 1 Carriage Assembly

Boom Assembly

Boom Assembly Accessories Exploded

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1WASHR-FL585 (8)</td>
<td>Washer class 4.8 flat head (8)</td>
</tr>
<tr>
<td>1FSTNR-HH145</td>
<td>Fastener class 14.5 (18)</td>
</tr>
<tr>
<td>1NUT-LC210 (18)</td>
<td>Nut class 210 (18)</td>
</tr>
<tr>
<td>1WASHR-LC240 (8)</td>
<td>Washer class 240 (8)</td>
</tr>
<tr>
<td>1FSTNR-HH146</td>
<td>Fastener class 14.6 (9)</td>
</tr>
<tr>
<td>1WASHR-LC585 (8)</td>
<td>Washer class 585 (8)</td>
</tr>
<tr>
<td>1FSTNR-SH815 (8)</td>
<td>Fastener class 815 (8)</td>
</tr>
<tr>
<td>1NUT-LC218 (8)</td>
<td>Nut class 218 (8)</td>
</tr>
<tr>
<td>1FSTNR-HH545 (8)</td>
<td>Fastener class 545 (8)</td>
</tr>
<tr>
<td>6504 (9)</td>
<td>Part number 6504 (9)</td>
</tr>
<tr>
<td>6101</td>
<td>Bearing assembly</td>
</tr>
</tbody>
</table>

Male JIC

Female JIC

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1CLAMP259</td>
<td>Clamp class 259</td>
</tr>
<tr>
<td>6504</td>
<td>Part number 6504</td>
</tr>
<tr>
<td>1ELECT-FS267</td>
<td>Electrical connector class 267</td>
</tr>
<tr>
<td>6101</td>
<td>Bearing assembly</td>
</tr>
</tbody>
</table>
Chapter 1 Carriage Assembly

Down-Tube Assemblies Complete
The Down-Tubes are the manifolds secured to the sides of the shuttle frame. They feed the overhead and side manifolds.
Chapter 1 Carriage Assembly

Butterfly Drive Assembly

The butterfly assembly is secured to the lower portion of the shuttle frame. It pivots the arm into and away from vehicles in the wash.

Butterfly Assembly Exploded

When replacing gears be sure to line up the dots as shown. P/N 6057 has the dot at the tooth and P/N 6058 has the dot between two teeth.

<table>
<thead>
<tr>
<th>6002</th>
<th>6056</th>
<th>1ELECT-SN815</th>
<th>1ELECT-SN827</th>
<th>108007</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Pipe" /></td>
<td><img src="image2.png" alt="Bolt" /></td>
<td><img src="image3.png" alt="Connector" /></td>
<td><img src="image4.png" alt="Washer" /></td>
<td><img src="image5.png" alt="Connector" /></td>
</tr>
</tbody>
</table>
Chapter 1 Carriage Assembly

Hydraulic Hose Information

<table>
<thead>
<tr>
<th>Hose Type</th>
<th>Length</th>
<th>Part Number</th>
<th>I. D.</th>
<th>Fitting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Boom Chase Hoses</td>
<td>28-1/2”</td>
<td>1HOSE-HY022</td>
<td>3/4”</td>
<td>1 male, 1 female JIC</td>
</tr>
<tr>
<td>Radius Connector Hoses</td>
<td>55-3/16”</td>
<td>1HOSE-HY038</td>
<td>3/4”</td>
<td>2 female JIC</td>
</tr>
<tr>
<td>Long Boom Chase Hoses</td>
<td>39”</td>
<td>1HOSE-HY026</td>
<td>3/4”</td>
<td>2 female JIC</td>
</tr>
<tr>
<td>Down-Tube to Manifold</td>
<td>50-5/16”</td>
<td>1HOSE-HY034</td>
<td>3/4”</td>
<td>2 female JIC</td>
</tr>
<tr>
<td>Hose by the Knuckle</td>
<td>44”</td>
<td>1HOSE-HY030</td>
<td>3/4”</td>
<td>2 female JIC</td>
</tr>
<tr>
<td>Pump Station Hose</td>
<td>86”</td>
<td>1HOSE-HY100</td>
<td>1”</td>
<td>2 female JIC</td>
</tr>
</tbody>
</table>
Chapter 2

Water manifold Assemblies

Chapter REV 01
Chapter 2 Water Manifold Assemblies

Water Manifold Assemblies
The water manifolds house the Side Sonar unit, the two Knuckles and the two Whisker Switches.

Water Manifold Assemblies Complete

Water Manifold Assemblies Components

- 6524
- 6525
- 102342 (shown on next page)
- 1ELECT-CB882 (Cable for Whisker Switch and Side Sonar)
- 1ELECT-SN945 (Side Sonar Unit, Black)
- 1ELBOW-SS025
- 102428 (Whisker Switch)
Chapter 2 Water Manifold Assemblies

Manifold Manifolds and Covers

Manifold Nozzles

1NOZZL-MG752: 4004, 1 MEG
(this nozzle is to be rotated 10° clockwise)

1NOZZL-MG515: 2504, 1 MEG

1NOZZL-MG754: 4006, 1 MEG

1NOZZL-MG280: 1504, 1 MEG

1NOZZL-MG754: 4006, 1 MEG

1PLUG-SS500

All nozzles are to be set at a 5° clockwise rotation except where stated.
Chapter 2 Water Manifold Assemblies

Knuckle Assembly: 102342

Parts Not Shown:
- 1FSTNR-HH045: 1/4-20 x 3/4" Stainless Steel HHCS (16 pieces)
- 1FSTNR-SH384: 1/4-20 x 1" Stainless Steel SHCS (8 pieces)
- 1WASHR-LC125: 1/4" Stainless Steel Lock Washer (24 pieces)
- 1FSTNR-HH491: 1/2-13 x 1" Stainless Steel HHCS (4 pieces)
- 1WASHR-FL956: 1/2" Flat Washer (4 pieces)
- 1WASHR-LC956: 1/2" Stainless Steel Lock Washer (4 pieces)
Chapter 2 Water Manifold Assemblies

XR Foaming Pod Assembly

* Each plastic pod has a number embossed on it to verify placement.
Chapter 2 Water Manifold Assemblies

XR Foam Generator Assembly

<table>
<thead>
<tr>
<th>Foam Generator Assembly (set of 3)</th>
<th>102595: Foam Generator Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Foam Generator Assembly diagram" /></td>
<td><img src="image2" alt="Foam Generator Assembly diagram" /></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Foam Generator Parts</th>
<th>Air Manifold</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Foam Generator Parts diagram" /></td>
<td><img src="image4" alt="Air Manifold diagram" /></td>
</tr>
</tbody>
</table>
Chapter 2 Water Manifold Assemblies

XR Distribution Manifold Assembly
(Mounted on top of the Carriage Assembly)

XR Foaming MCC Components

<table>
<thead>
<tr>
<th>1VALVE-EL359</th>
<th>1TEE-PL705</th>
<th>1RGLTR800</th>
<th>1FRL400</th>
<th>1ELBOW-PL764</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
<td><img src="image5.png" alt="Image" /></td>
</tr>
</tbody>
</table>
Chapter 3

Pumping Station

Chapter REV 02
Chapter 3 Pumping Station

Complete Assembly Exploded

Sub Assemblies Shown on the Following Pages

Tank Assembly
(see Exploded View)

102406: Distribution Manifold
(see Exploded View)

102370: Frame Assembly
(see Exploded View)

Motor and Pump Assembly
(see Exploded View)
Chapter 3 Pumping Station

Pumping Station Frame Assembly: 102386
Chapter 3 Pumping Station

Water Tank Assemblies

Sub Assemblies Shown on the Following Pages

Water Tank Overflow Assembly (2)
- 1PLSTC-EX070
- RSRVR853: Large Tank (Includes Cover)

Water Tank Fill and Float Assembly (2)
- 7.5 Kilowatt Immersion Water Heater
- 6258: Foam Insulation

Water Tank Drain Assembly

Water Tank Low-Level Assembly (2)
- RSRVR851: Small Tank (Includes Cover)

7.5 Kilowatt Immersion Water Heater
Chapter 3 Pumping Station

Water Tank Sub-Assemblies

Component Identification

<table>
<thead>
<tr>
<th>Overflow Assembly</th>
<th>Low-Level Assembly</th>
<th>Tank Filling Assembly</th>
<th>Immersion Heater 7.5kW</th>
</tr>
</thead>
</table>

Small Tank Drain Assembly

Large Tank Drain Assembly

Water-Tank Overflow Assemblies

2 Required per System

1BLKHD-PL765 (Reverse Threaded)

1BLKHD-PL765 Exploded

1ELBOW-PL970

1BLKHD-PL765
EXPLODED PART DIAGRAMS

Chapter 3 Pumping Station

Water Tank Sub-Assemblies
Low-Level Sensor Assembly
2 Required per System

Helpful Hint

When replacing the Low-Level Sensor (1ELECT-SW550), be sure to verify orientation as shown.

Water-Tank Filler and Float Assemblies
2 Required per System

Immersion Water Heater Assemblies (Optional)

Helpful Hint

Details of Warning Label

Small hole located on the bottom when installed properly.
Chapter 3 Pumping Station

Pumping Station Water-Tank Assembly

Small Tank Drain Assembly

Large Tank Drain Assemblies

1BLKHD-PL770 (Reverse Threaded) 1BLKHD-PL770 Exploded

1BLKHD-PL770 1NIPPL-PL820 1SCREEN400

1BLKHD-PL770 1NIPPL-PL825

1BLKHD-PL775 1SCREEN450

1BLKHD-PL775 1NIPPL-PL825

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Chapter 3 Pumping Station

Pumping Station Motor and Pump Assembly

1MOTOR-EL996
1REDUC-PL500
1TEE-PL978
1HOSE830 (2 pieces)
1CLAMP924 (2 per hose)
1FTTING-BH550
1ELBOW-PL666

1PLUG666
1REDUC-PL500
1TEE-PL978
1HOSE830 (2 pieces)
1CLAMP924 (2 per hose)
1FTTING-BH550
1ELBOW-PL666

1MCONC-BR757 (2 pieces)
1HOSE-HY100

1ELBOW-PL666
1STEEL-KY110
6256 Cove Support
1PULLY550
1BSHNG958
1BELT800 (3)

1CLAMP924 (2 per hose)
1FTTING-BH550
1HOSE830 (2 pieces)
1REDUC-PL500
1TEE-PL978
1HOSE830 (2 pieces)
1CLAMP924 (2 per hose)
1FTTING-BH550
1ELBOW-PL666

1MCONC-BR757 (2 pieces)
1HOSE-HY100

1ELBOW-PL666
1STEEL-KY110
6256 Cove Support
1PULLY550
1BSHNG958
1BELT800 (3)
Chapter 4

Solution Delivery Module (SDM)
Chapter 4 Solution Delivery Module (SDM)

SDM Frame and Pump Assemblies

**Helpful Hint**
Optional 1PUMP725 is a Non-Concentrate Pump that uses Concentrated Chemicals

1PUMP730 ONLY

1VALVE-WA182
Suction Valve

1VALVE-WA184
Discharge Valve

Cable from J-Box to Pumps

1ELECT-FS460

See Pump Info Above

1ELECT-JB100

1PUMP73

1GRMNT750 (typical)

1PUMP630 ONLY

1VALVE-WA192
Suction Valve

1VALVE-WA194
Discharge Valve

1PUMP630

1PUMP730
Chapter 4 Solution Delivery Module (SDM)

SDM Main Manifold Assembly

[Diagram of SDM Main Manifold Assembly with part numbers and descriptions]
Chapter 4 Solution Delivery Module (SDM)

SDM Valve Assemblies

The following items are not shown in the above images:

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snap-In Wire Retainer</td>
<td>1ELECT-FS194</td>
<td>1</td>
</tr>
<tr>
<td>Micro Splitter with 90° Connector</td>
<td>1ELECT-FS460</td>
<td>3</td>
</tr>
<tr>
<td>1/4-20 x 3&quot; Fastener</td>
<td>1FSTNR-HH142</td>
<td>4</td>
</tr>
<tr>
<td>1/4&quot; Lock Washer</td>
<td>1WASHR-LC125</td>
<td>4</td>
</tr>
<tr>
<td>8-32 x 3/4&quot; Socket Head Cap Screw</td>
<td>1FSTNR-SH030</td>
<td>3</td>
</tr>
<tr>
<td>#8 Internal Tooth Washer</td>
<td>1WASHR-IT063</td>
<td>3</td>
</tr>
<tr>
<td>10-32 x 3/4&quot; Socket Head Cap Screw</td>
<td>1FSTNR-SH058</td>
<td>12</td>
</tr>
<tr>
<td>10-32 Nylock Nut</td>
<td>1NUT-LC077</td>
<td>12</td>
</tr>
<tr>
<td>#10 Stainless Steel Flat Washer</td>
<td>1WASHR-FL185</td>
<td>12</td>
</tr>
<tr>
<td>1/4&quot;ID x 3/8&quot;OD Clear Tubing</td>
<td>1AIRLN740</td>
<td>24ft</td>
</tr>
<tr>
<td>1/4&quot;ID x 3/8&quot;OD Clear Tubing</td>
<td>1AIRLN798</td>
<td>42in</td>
</tr>
</tbody>
</table>
Chapter 4 Solution Delivery Module (SDM)

SDM XR Triple Foam Manifold Assembly

1MCONC-PL500

1VALVE-WA950

1NIPPL-PL178

1TEE-PL915

1VALVE-WA180

(This valve not included in assembly)

1REDUC-PL120

1VALVE-WA210

1ELBOW-BR365

1REDUC-BR275

1MCONC-BR745

Complete Assembly
Chapter 5

Wall Manifold

Chapter REV 03
Chapter 5 Wall Manifold

Rev 1, Style 1

The image on this page shows the first version of the Vector Wall Manifold. It is strictly for those that may also own an older version of the Vector. The current version is “REV 3”
Chapter 5 Wall Manifold

Rev 2, Style 1

The image on this page shows the second version of the Vector Wall Manifold. It is strictly for those that may also own an older version of the Vector. The current version is "REV 3"
Chapter 5 Wall Manifold

Rev 3, Style 1

Complete Assembly: 102572 (includes mounting plate)

Note:  *= 1VALVE-WA290
Chapter 5 Wall Manifold

Rev 3, Style 2

Complete Assembly: 102572 (includes mounting plate)
Chapter 5 Wall Manifold

REV 3, Style 3 (Current)

Complete Assembly

Part Number: 102572 (includes mounting plate)
Chapter 6 Wall Mounted Water Heater (Super Heat)

REV 1 - Complete Assembly: 106803

The image on this page shows the first version of the Vector Wall Mounted Water Heater. It is strictly for Vector™ systems built prior to June 2004. You can identify your style by the thermostat. The first version does NOT have a digital display (see below). The heating element is also style specific.

**Electrical Enclosure REV 1**

1HTR-EL123: Over-Temp Thermocouple

1HTR-EL123: Over-Temp Module

1 Amp-250V Fuse

1HTR-EL137: Thermostat
Chapter 6 Wall Mounted Water Heater (Super Heat)

REV 2 - Complete Assembly: 106803

The image on this page shows the current version of the Vector Wall Mounted Water Heater. It is strictly for Vector™ systems built after June 2004. You can identify your style by the thermostat. The current version has a digital display (see below). The heating element is also style specific.

Electrical Enclosure REV 2

- 1HTR-EL133: Over-Temp Thermocouple
- 1HTR-EL137: Thermostat w/Digital Display
- 1HTR-EL135: Over-Temp Module
- 1 Amp-250V Fuse
Chapter 7

Undercarriage Wash and Rocker Spin Cleans

Chapter REV 01
Chapter 7 Undercarriage Wash and Rocker Spin Cleans

Rocker Spin Clean Undercarriage Manifold

Rocker Spin Clean Undercarriage Components

| 1MCONC-BR753 | 1VALVE-WA269 | 1REDUC-SS225 | 1NIPPL-SS102 | 1TEE-SS100 |
Rocker Spin Clean Exploded

**Rocker Spin Clean Undercarriage Components**

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6288</td>
<td>1FTTNG-SW420</td>
</tr>
<tr>
<td>1ELBOW-BR510</td>
<td>1NOZZL-MG200</td>
</tr>
<tr>
<td>1FTTNG-SW420</td>
<td>1FSTNR-FH842</td>
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</table>

- 6292: Red
- 6293: Blue
- 6288 (2)
- 1FSTNR-HH610 (2)
- 1NOZZL-MG200 (4)
- 6288 (2)
- 1WASHR-LC456 (2)
- 1ELBOW-BR510
- 1FSTNR-FH842 (2)
- 102416
- 1ROTO100
- 1FTTNG-SW420
- 1ELBOW-BR510
Chapter 7 Undercarriage Wash and Rocker Spin Cleans

Standard Undercarriage Manifold

Overview

Undercarriage Wash Components

<table>
<thead>
<tr>
<th>1MCONC-BR753</th>
<th>1VALVE-WA267</th>
<th>1REDUC-SS225</th>
<th>1NIPPL-SS102</th>
<th>1TEE-SS100</th>
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<tr>
<td><img src="image1" alt="1MCONC-BR753" /></td>
<td><img src="image2" alt="1VALVE-WA267" /></td>
<td><img src="image3" alt="1REDUC-SS225" /></td>
<td><img src="image4" alt="1NIPPL-SS102" /></td>
<td><img src="image5" alt="1TEE-SS100" /></td>
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</tbody>
</table>
Chapter 8

Floor Treadle and “Y” Section

Chapter REV 01
Chapter 8 Floor Treadle and “Y” Section

Treadle Assembly Complete

102397: Complete Entrance “Y” Section
102399: Complete Treadle Assembly

Treadle Assembly Exploded

6139: Axel (2 pieces)
102364: Stainless Steel Roller (Includes Plastic Ends #1838 and Rollers #1SS-TB535, 4 pieces)
6140
102364: Stainless Steel Roller (Includes Plastic Ends #1838 and Rollers #1SS-TB535, 2 pieces)
6139: Axel (2 pieces)
102364: Stainless Steel Roller (Includes Plastic Ends #1838 and Rollers #1SS-TB535, 4 pieces)
6140
1SPOOL920 (Not Shown, 2 pieces)
102355
102357
102352
102353
102354
102351: Base Weldment
102360
102363
102351
102358 (Includes 2 sleeves, 6"
1ELECT-CB118 (2 pieces)
6142 (6 pieces)
1ELECT-SN374 (2 pieces)
6140
102360
102363
102359
Chapter 9

Photo Eyes (Basic)

Chapter REV 01
Chapter 9 Photo Eyes (Basic)

Floor Mounted and Wall Mounted Emitters

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>For</th>
<th>Part Number</th>
<th>Description</th>
<th>For</th>
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<tbody>
<tr>
<td>1ELECT-SN215</td>
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<td>1ELECT-EN500</td>
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<tr>
<td>1MOUNT-VC225</td>
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<td>2575</td>
<td>101492</td>
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<tr>
<td></td>
<td></td>
<td>For Floor</td>
<td>101491</td>
<td></td>
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<td></td>
<td></td>
<td>Mounted</td>
<td></td>
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<td></td>
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<tr>
<td>1GRMIT666</td>
<td></td>
<td></td>
<td>1CAP084</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1FSTNR-SH148</td>
<td></td>
<td></td>
<td>2643</td>
<td></td>
<td></td>
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<tr>
<td>1ELECT-FS176</td>
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Chapter 9 Photo Eyes (Basic)

Floor Mounted and Wall Mounted Receivers

<table>
<thead>
<tr>
<th>101461</th>
<th>101789</th>
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For Floor Mounted

<table>
<thead>
<tr>
<th>1ELECT-SN220</th>
<th>1MOUNT-VC225</th>
<th>2575 For Floor Mounted</th>
<th>1ELECT-EN500 For Wall Mounted</th>
<th>101492</th>
<th>101787</th>
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</table>

For Wall Mounted

<table>
<thead>
<tr>
<th>1GRMIT666</th>
<th>1FSTNR-SH148</th>
<th>1ELECT-FS176</th>
<th>2643</th>
<th>1CAP084</th>
</tr>
</thead>
</table>

[Image of exploded parts diagrams]
Chapter 10

Photo Eyes (Deluxe)

Chapter REV 01
Chapter 10 Photo Eyes (Deluxe)

Photo Eye Assembly

- 1FSTNR-HH023 (3)
- 1ELECT-SN213 (Emitter)
- 1ELECT-SN222 (Receiver)
- 6986
- 6964
- 6963
- 1WASHR-FL332 (3)

- 1ELECT-SN213 (Emitter)
- 1ELECT-SN222 (Receiver)
- 102793
  (for Heat Kit #PE105858 and PE105859 ONLY)

- 1WASHR-FL500 (2)
- 1ELECT-FS176 (2)
- 1WASHR-FL332 (4)
- 1FSTNR-SH354 (3)
- 1FSTNR-SH406 (1)
Chapter 9 Photo Eyes (Deluxe)

Mounting Styles

Wall Mount Assembly

Floor Mount Assembly

Assembly: PE105857

Assembly: PE105856
Chapter 11 Replacement Parts Exploded Views

Parts Details and Requirements

<table>
<thead>
<tr>
<th>1ELECT-VD026</th>
<th>1ELECT-VD010</th>
<th>1ELECT-VD015</th>
<th>1CNTRL020</th>
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<tbody>
<tr>
<td>[Diagram]</td>
<td>[Diagram]</td>
<td>[Diagram]</td>
<td>[Diagram]</td>
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</table>

These Components Require Programming Prior to Use

- REV 1 Vector – Program #102760
- REV 2 Vector – Program #102761
- REV 3 Vector – Program #102762

The Items Below Include a Circuit Board and a Cover

<table>
<thead>
<tr>
<th>105826</th>
<th>105827</th>
<th>105828</th>
<th>105829</th>
<th>105830</th>
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<tr>
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<td>[Diagram]</td>
<td>[Diagram]</td>
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<td>[Diagram]</td>
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</tbody>
</table>

The Items Below are Covers ONLY

<table>
<thead>
<tr>
<th>1DECAL121</th>
<th>1DECAL123</th>
<th>1DECAL125</th>
<th>1DECAL127</th>
<th>1DECAL129</th>
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<tbody>
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<td>[Diagram]</td>
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</table>

<table>
<thead>
<tr>
<th>1DECAL131</th>
<th>1ELECT-RL855</th>
<th>1ELECT-RL907</th>
<th>1FRL400</th>
<th>1RGLTR800</th>
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<tbody>
<tr>
<td>[Diagram]</td>
<td>[Diagram]</td>
<td>[Diagram]</td>
<td>[Diagram]</td>
<td>[Diagram]</td>
</tr>
</tbody>
</table>

- Blank Cover
- Output Board
Chapter 11 Replacement Parts Exploded Views

MCC – FRL Assembly and Replaceable Parts (for 1FRL400)

Inspecting and Cleaning the MCC Main and Coalescent Filters

There are two filters to be inspected and cleaned. The Main Filter and the Coalescent Filter. Both located on the side of the MCC.

1) Turn OFF the air supply to the Filter Assembly.
2) Remove the bowl of the Main Filter by lifting up and turning clockwise while looking down on it.
3) Remove the “star shaped” nut and the white, tapered filter element. Clean both of these components. Notice that the white filter element is positioned “wide side up”.
4) Remove the float from inside of the bowl and clean it. Notice the float is positioned “star side down”.
5) Wash out the inside of the bowl. You may need to disassemble the valve assembly if it appears clogged.
6) Reassemble the Main Filter.
7) Remove the bowl of the Coalescent Filter by lifting up and turning counter-clockwise.
8) Remove the green, foam covered filter element. Clean it.
9) Wash out the inside of the bowl. You may need to disassemble the valve assembly if it appears clogged.
10) Reassemble the Coalescent Filter.
Chapter 12

Vector Dryer

Chapter REV 01
Chapter 12 Vector Dryer

Frame Components

EXPLODED PARTS DIAGRAMS
Chapter 12 Vector Dryer

Upper Bracket

Fasteners for attaching the motor assembly to the mounting plate shown later in this section.

Upper Bracket Misc. Parts

<table>
<thead>
<tr>
<th>102433</th>
<th>102432</th>
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<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
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</table>
Chapter 12 Vector Dryer

Side Bracket

Fasteners for attaching the motor assembly to the mounting plate shown later in this section.

Side Bracket Misc. Parts

<table>
<thead>
<tr>
<th>102431</th>
<th>102430</th>
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<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
</tbody>
</table>
Chapter 12 Vector Dryer

Blower Housing Assembly

Blower Housing Assemblies

1SCREEN560
Air Output Safety Screen
(8" x 8-1/2")

See following pages for more close-ups of parts and assembly details.
Chapter 12 Vector Dryer

Misc. Parts and Close-Up Images

**Impeller Rotation is Referenced from the Motor Side of the Impeller**

Clockwise Impeller Rotation

Counter Clockwise Impeller Rotation

<table>
<thead>
<tr>
<th>102436: Counter Clockwise Assembly</th>
<th>1IMLR775: Counter Clockwise Impeller (10HP Hi-Flow Green)</th>
<th>102435: Clockwise Assembly</th>
<th>1IMLR750: Clockwise Impeller (10HP Hi-Flow Green)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Counter Clockwise Assembly" /></td>
<td><img src="image2" alt="Counter Clockwise Impeller (10HP Hi-Flow Green)" /></td>
<td><img src="image3" alt="Clockwise Assembly" /></td>
<td><img src="image4" alt="Clockwise Impeller (10HP Hi-Flow Green)" /></td>
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</table>

**Helpful Hint**

For replacement Impellers outside of the United States, motor may be different, please contact Belanger for assistance.

<table>
<thead>
<tr>
<th>Close-ups of Motor Mounting Bolts</th>
<th>Close-ups of part # 1IMLR275 Mounting Bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Motor Mounting Bolts" /></td>
<td><img src="image6" alt="Part # 1IMLR275 Mounting Bolts" /></td>
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</table>

<table>
<thead>
<tr>
<th>1RETNR650</th>
<th>Close-ups of part # 3832 (Boomerang) Mounting Bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7" alt="Part # 3832 (Boomerang) Mounting Bolts" /></td>
<td><img src="image8" alt="Part # 3832 (Boomerang) Mounting Bolts" /></td>
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</table>
Chapter 12 Vector Dryer

Impeller and Motor Assembly

Helpful Hint
For replacement motors outside of the United States, motor may be different, please contact Belanger for assistance.

All Impellers by Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1MPLR450</td>
<td>Clockwise – Brown – 50Hz</td>
</tr>
<tr>
<td>1MPLR475</td>
<td>Counter-Clockwise – Brown – 50Hz</td>
</tr>
<tr>
<td>1MPLR516</td>
<td>Clockwise – Black – 60Hz</td>
</tr>
<tr>
<td>1MPLR532</td>
<td>Counter-Clockwise – Black – 60Hz</td>
</tr>
<tr>
<td>1MPLR610</td>
<td>Clockwise – Gray – 60Hz</td>
</tr>
<tr>
<td>1MPLR645</td>
<td>Counter-Clockwise – Gray – 60Hz</td>
</tr>
<tr>
<td>1MPLR750</td>
<td>Clockwise – Green – 60Hz</td>
</tr>
<tr>
<td>1MPLR775</td>
<td>Counter-Clockwise – Green – 60Hz</td>
</tr>
</tbody>
</table>

Misc. Impeller Parts

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1MPLR-TM500</td>
<td>Yellow “Inlet” Template</td>
</tr>
<tr>
<td>1MPLR-CO750</td>
<td>Includes: 11MPLR-CO500 and 1GASKT750</td>
</tr>
</tbody>
</table>