# PARTS LIST

## VL VERTICAL STORING DOCK LEVELER

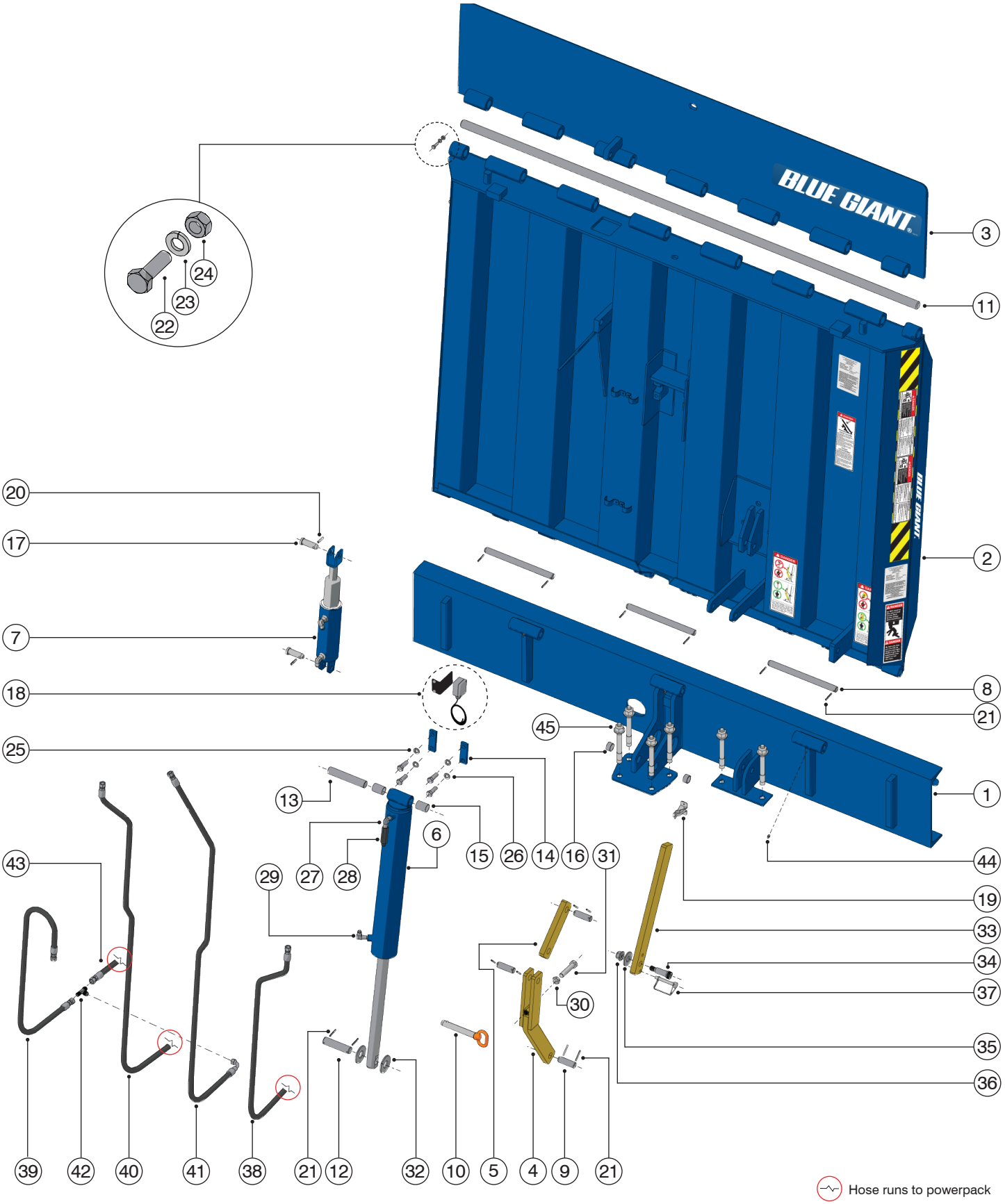



**STARTING FROM: MARCH, 2016**
**SERIAL # 411892**

BLUE GIANT®

ISSUE DATE: SEPTEMBER 13, 2017 (PART # 038-670EPL)

## MECHANICAL ASSEMBLY



## MECHANICAL ASSEMBLY CONT'D.

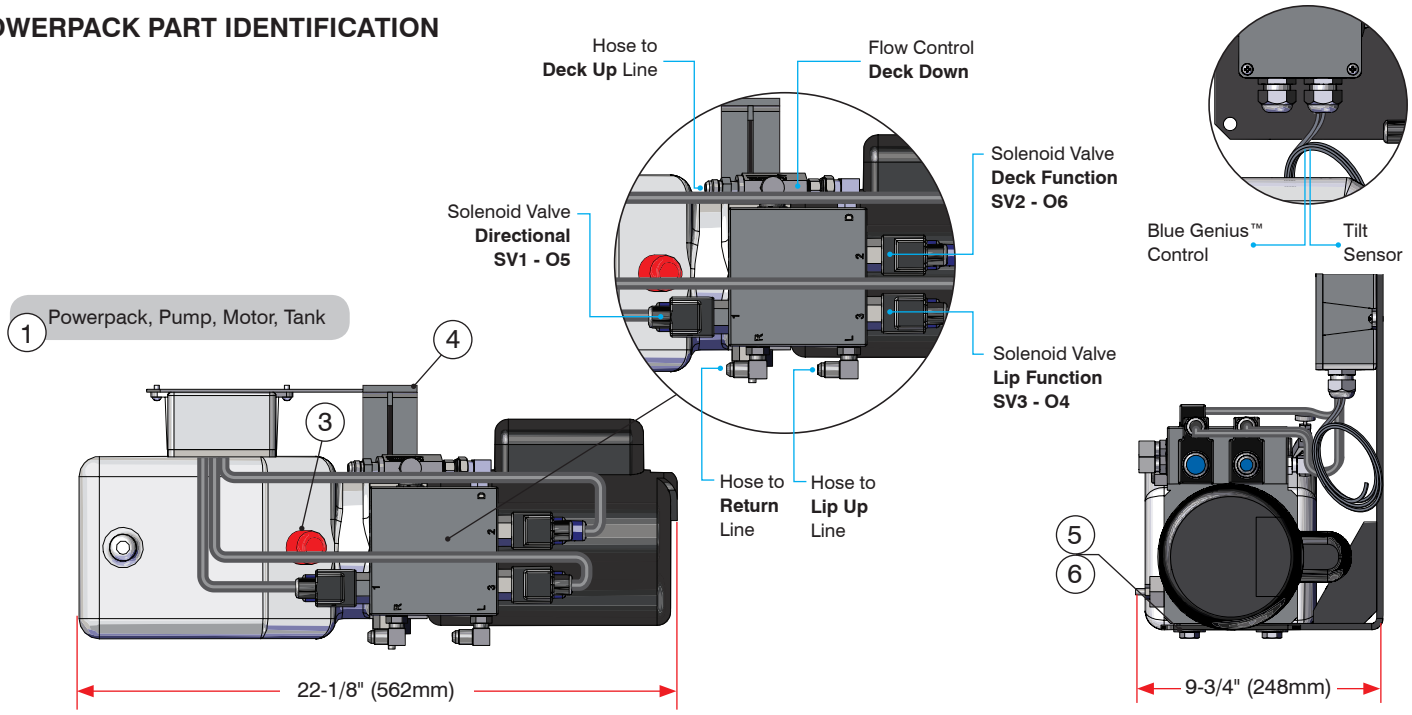
| ITEM | QTY | PART NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | See Owner's Manual (038-670E) | Back Frame Weldment |
| 2 | 1 | See Owner's Manual (038-670E) | Deck Weld |
| 3 | 1 | See Owner's Manual (038-670E) | Lip Plate Weldment |
| 4 | 1 | 23-012655 | Safety Stand |
| 5 | 1 | 23-012654 | Safety Stand - Top Link |
| 6 | 1 | 23-014490 | Deck Cylinder Assembly - 2" Cushion |
| 7 | 1 | 213-5058-1 | Lip Cylinder Assembly, Double Acting |
| 8 | 3 | 23-012803 | Pivot Pin |
| 9 | 3 | 23-012803-1 | Pivot Pin |
| 10 | 1 | 013-077 | Lock Pin |
| 11 | 1 | See Owner's Manual (038-670E) | Shaft |
| 12 | 1 | 23-012717 | Cylinder Pin Rod |
| 13 | 1 | 23-003569 | Pin |
| 14 | 2 | 23-003568 | Clevis Plate |
| 15 | 2 | 018-018 | Bushing |
| 16 | 2 | 018-050 | Bushing 1" x 1-1/8" x 5/8" Long |
| 17 | 2 | 107-196 | Clevis Pin |
| 18 | 1 | 026-G024-A | Inclinometer Assembly |
| | 1 | | Bracket |
| | 2 | — | Self-tapping Screws 1/4" |
| 19 | 1 | 013-537 | Tool Holder - Zinc Plated - 5/8" - 7/8" dia. |

| ITEM | QTY | PART NO. | DESCRIPTION |
|---|---|---|---|
| 20 | 2 | 013-010 | 1/4" dia. Spring Pin 1.25" long |
| 21 | 14 | 013-127 | 3/16" dia. Spring Pin x 1.50" long |
| 22 | 2 | 010-006 | HHCS 5/16-18 UNC x 1 GR.5 ZN |
| 23 | 2 | 012-200 | Regular Spring Lock Washers 5/16" (U.S.) |
| 24 | 2 | 011-502 | Hex Nuts (U.S.) |
| 25 | 1 | 012-220 | Regular Spring Lock Washers (U.S.) |
| 26 | 4 | 010-048 | HHCS 1/2-13 UNC x 1-1/2" |
| 27 | 4 | 034-599 | Fitting 90 6MP - 4MP |
| 28 | 1 | 033-661 | Velocity Fuse |
| 29 | 1 | 034-601 | Fitting |
| 30 | 1 | 011-521 | Hex Jam Nut 5/8-18 UNF |
| 31 | 1 | 010-032 | HHCS 5/8-18 UNF x 3 GR.8 |
| 32 | 2 | 012-250 | Flat Washers (U.S.) 1" |
| 33 | 1 | 23-013159 | Maintenance Strut |
| 34 | 1 | 011-078 | Screw Shoulder 3/4 x 1-3/4" long |
| 35 | 1 | 012-214 | Flat Washers (U.S.) 3/4" |
| 36 | 1 | 011-866 | Flange Hex. Locknut 5/8" - 11 |
| 37 | 1 | 013-078 | Linch Pin - 3/8" dia. x 2-1/4" Usable |
| 42 | 1 | 034-665 | Fitting Tee #6 |
| 44 | 3 | 019-500 | Nipple Straight Grease 1/4" |
| 45 | 6 | 010-108 | 5/8" dia x 6" (152 mm) Anchor Wedge (Not Supplied) |

| | | HOSE ASSY. - #6 HIGH PRESSURE | | RUN TO WALL - 18' (5.5m) | | RUN TO POST - 9' (2.7m) | |
|---|---|---|---|---|---|---|---|
| ITEM | DECK LENGTH | DESCRIPTION | | PART NO. | ACTUAL SIZE | PART NO. | ACTUAL SIZE |
| 38 | 5' (1.5m) | Deck | Raise | 300-5000-50 | 22' (6.7m) | 300-5000-40 | 13' (4m) |
| 39 | | | Lower | 300-5000-25 | 6' (1.8m) | 300-5000-25 | 6' (1.8m) |
| 40 | | Lip | Extend | 300-5000-69 | 23' (7m) | 300-5000-42 | 15' (4.6m) |
| 41 | | | Return | 300-50005-1 | 5' (1.5m) | 300-50005-1 | 5' (1.5m) |
| 43 | | Oil Return | | 300-5000-56 | 18' (5.5m) | 300-5000-31 | 9' (2.7m) |
| 38 | 6' (1.8m) | Deck | Raise | 300-5000-50 | 22' (6.7m) | 300-5000-41 | 14' (4.3m) |
| 39 | | | Lower | 300-5000-25 | 6' (1.8m) | 300-5000-25 | 6' (1.8m) |
| 40 | | Lip | Extend | 300-5000-46 | 24' (7.3m) | 300-5000-43 | 16' (4.9m) |
| 41 | | | Return | 300-5005-2 | 6' (1.8m) | 300-5005-2 | 6' (1.8m) |
| 43 | | Oil Return | | 300-5000-56 | 18' (5.5m) | 300-5000-31 | 9' (2.7m) |
| 38 | 8' (2.4m) | Deck | Raise | 300-5000-50 | 22' (6.7m) | 300-5000-43 | 16' (4.9m) |
| 39 | | | Lower | 300-5000-25 | 6' (1.8m) | 300-5000-25 | 6' (1.8m) |
| 40 | | Lip | Extend | 300-5000-51 | 26' (7.9m) | 300-5000-56 | 18' (5.5m) |
| 41 | | | Return | 300-5005-3 | 7' (2.1m) | 300-5005-3 | 7' (2.1m) |
| 43 | | Oil Return | | 300-5000-56 | 18' (5.5m) | 300-5000-31 | 9' (2.7m) |

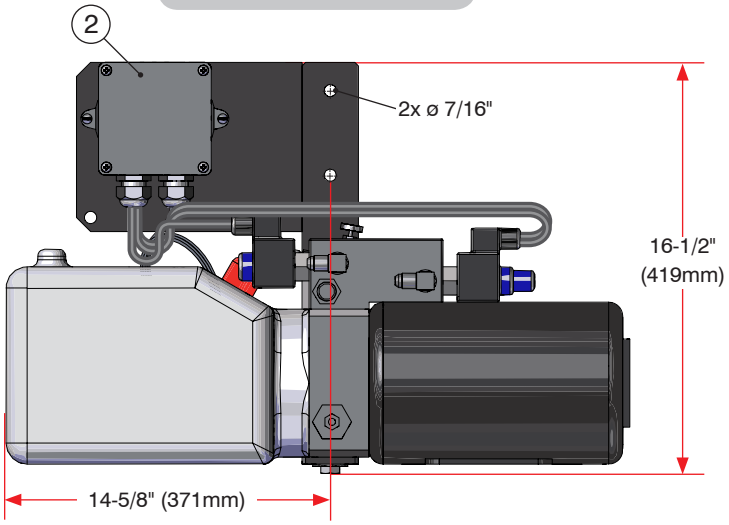
Run = Backframe to powerpack

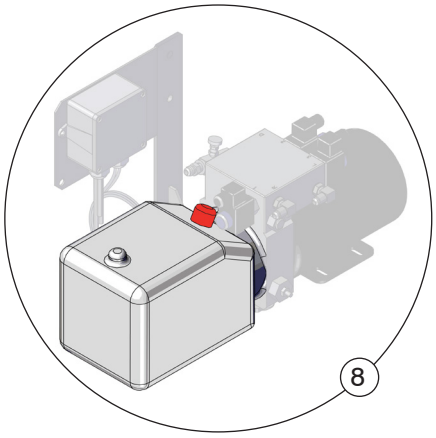
## POWERPACK PART IDENTIFICATION




Top View – Wall Mount

Side View (Tank End) – Wall Mount



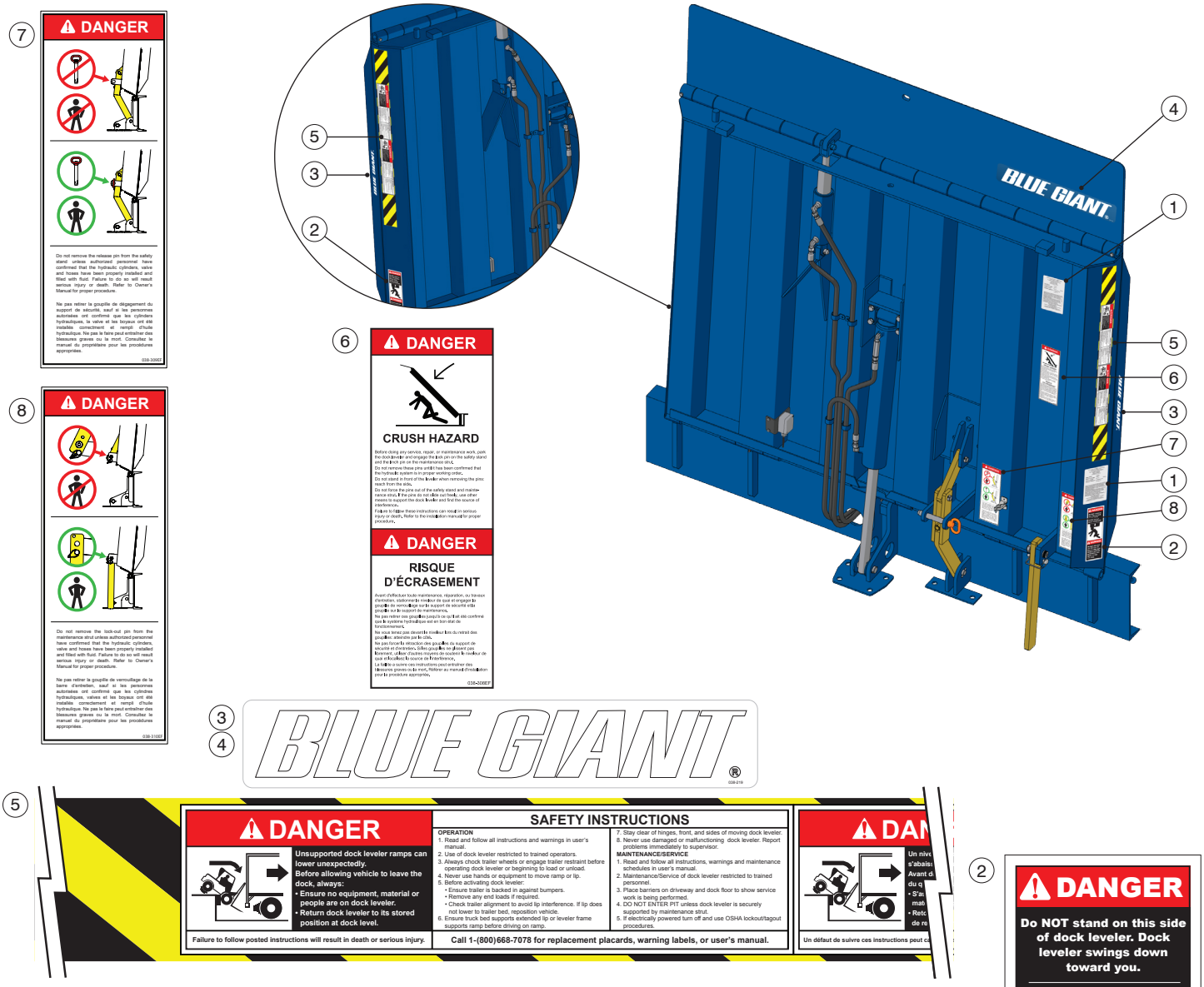

Front View – Wall Mount

Powerpack Tank Kit

| VL POWERPACK ASSEMBLY # 23-014530 | | | | |
|---|---|---|---|---|
| ITEM | QTY | PART NO. | DESCRIPTION | ITEM#1 |
| 1 | 1 | 23-014530 | VL PPACK - REMOTE 1PH-115V-230V-60HZ | 033-461 |
| | | 23-014530-1 | VL PPACK - REMOTE 3PH-230/460V-60HZ | 033-462 |
| | | 23-014530-2 | VL PPACK REMOTE 3PH-575V-60HZ | 033-463 |
| 2 | 1 | 026-H28 | VL Remote I/O Harness (See pg. 8) | |
| 3 | 1 | 080-527 | VL Powerpack Tank Breather Cap | |

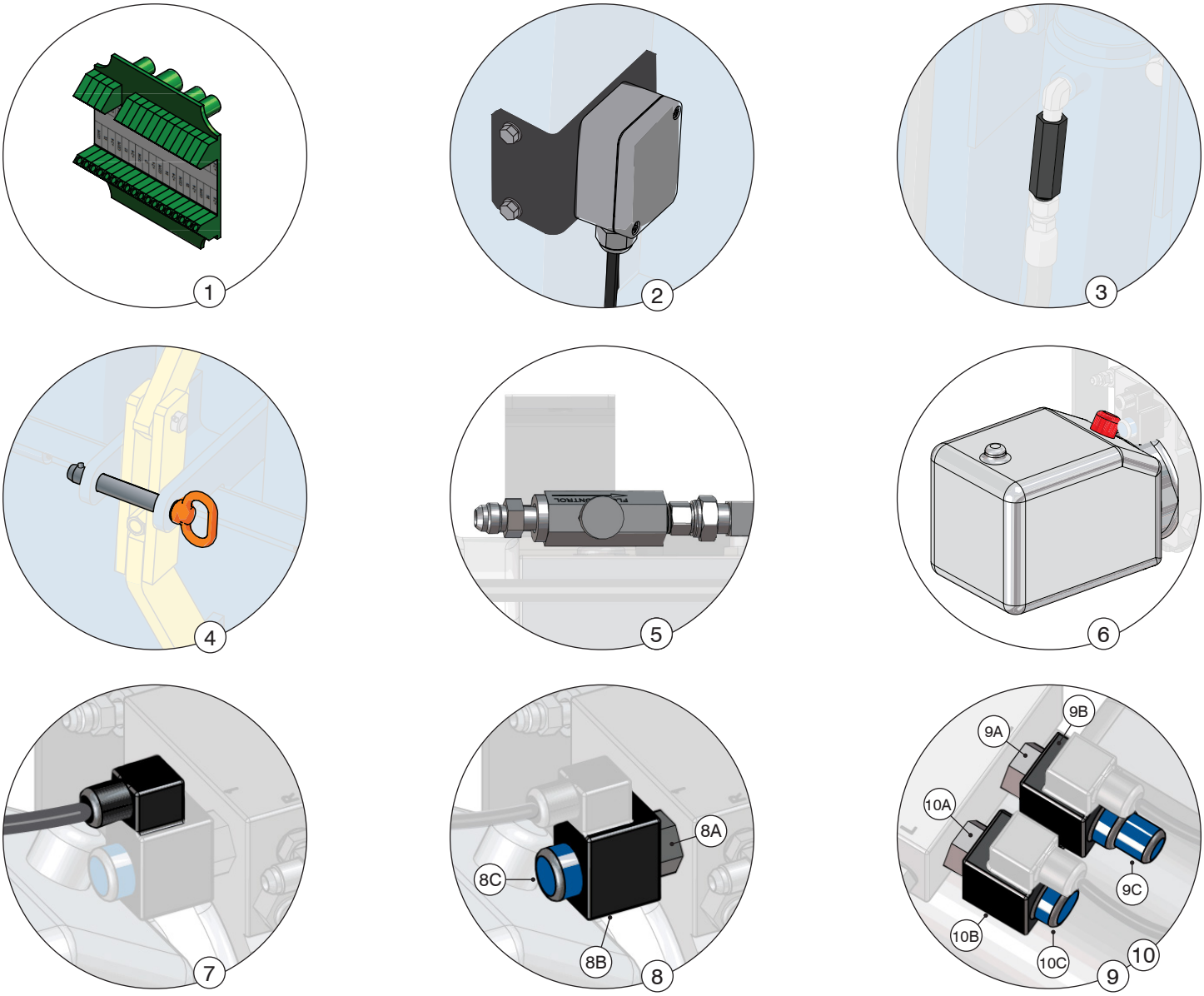
| VL POWERPACK ASSEMBLY # 23-014530 | | | | |
|---|---|---|---|---|
| ITEM | QTY | PART NO. | DESCRIPTION | ITEM#1 |
| 4 | 1 | 23-014537 | Wall Bracket | |
| 5 | 2 | 010-170 | Hex Head Cap Screws M10x20 | |
| 6 | 2 | 012-263 | Flat Washers (U.S.) 7/16" | |
| 7 | 1 | See Sec. 7.6 | Hydraulic Oil | |
| 8 | 1 | 080-510 | Tank (Reservoir Oil) Kit | |

## DECAL IDENTIFICATION AND LOCATION




| ITEM | QTY | PART NO. | | DESCRIPTION |
|---|---|---|---|---|
| 1 | 2 | 108-120 | EF<br>ES | Decal - Serial Plate |
| 2 | 2 | 038-230EFS | | Decal - Danger Do Not Stand |
| 3 | 2 | 038-218 | | Decal - Blue Giant - Large |
| 4 | 1 | 038-219 | | Decal - Blue Giant - Small |
| 5 | 2 | 038-226 | EF<br>ES | Decal - Danger Safety Instructions |
| 6 | 1 | 038-308 | EF<br>ES | Decal - VL Crush Hazard |
| 7 | 1 | 038-309 | EF<br>ES | Decal - Danger Safety Stand Operation |
| 8 | 1 | 038-310 | EF<br>ES | Decal - Danger Maintenance Strut Operation |

## RECOMMENDED SPARE PARTS – STANDARD OPERATIONAL COMPONENTS



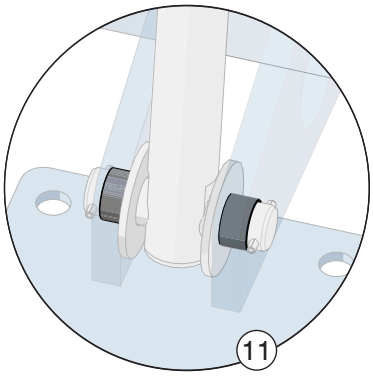

### RSP FOR VL – STD OPERATIONAL COMPONENTS

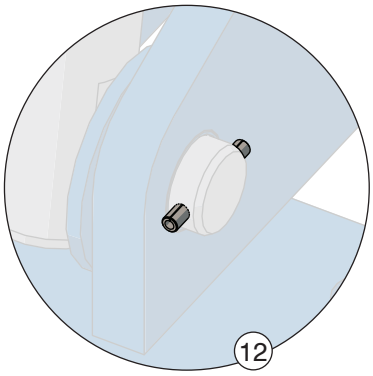
| ITEM | PART NO. | DESCRIPTION | QTY REQ'D |
|---|---|---|---|
| 1 | 026-G025BM | Remote I/O Board (No Resistor) | 1 |
| 2 | 026-G024-A | IntelliTilt™ Sensor Assembly | 1 |
| 3 | 033-661 | Velocity Fuse | 1 |
| 4 | 013-077 | Safety Stand Lock Pin w/ Ball Plunger | 1 |
| 5 | 080-511 | Deck Flow Control - VL Powerpack | 1 |
| 6 | 080-510 | Reservoir Kit - VL Powerpack | 1 |
| 7 | 026-G074 | Solenoid Valve Connector with Cable | 1 |

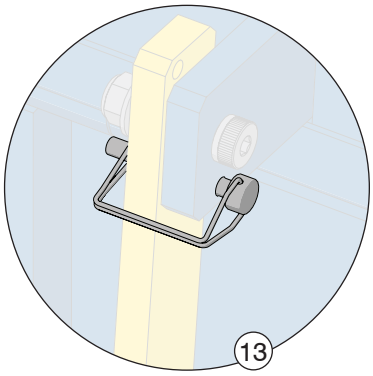
### RSP FOR VL – STD OPERATIONAL COMPONENTS

| ITEM | PART NO. | DESCRIPTION | | QTY REQ'D |
|---|---|---|---|---|
| 8 | 080-K001 | SV1 Kit | 8A: 080-513 - Dir. Valve | 1 |
| | | | 8B: 080-515 - 24VDC Coil | |
| | | | 8C: 033-508-1N Nut | |
| 9 | 080-K002 | SV2 Kit | 9A: 080-512 - Deck Valve | 1 |
| | | | 9B: 080-525 - 24VDC Coil | |
| | | | 9C: 033-508-1C Cap | |
| 10 | 080-K003 | SV3 Kit | 10A: 080-516 - Lip Valve | 1 |
| | | | 10B: 080-525 - 24VDC Coil | |
| | | | 10C: 033-508-1N Nut | |

## RECOMMENDED SPARE PARTS – STANDARD OPERATIONAL COMPONENTS

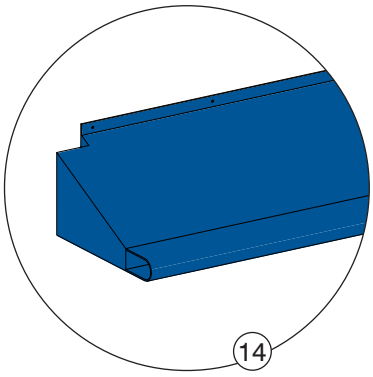


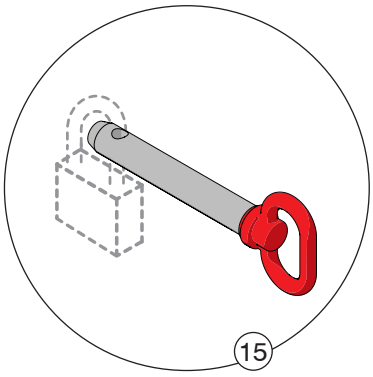




| RSP FOR VL – STD OPERATIONAL COMPONENTS | | | |
|---|---|---|---|
| ITEM | PART NO. | DESCRIPTION | QTY REQ'D |
| 11 | 018-050 | Bushings | 2 |
| 12 | 013-127 | 3/16" Dia. Spring Pin x 1.50 | 8 |
| 13 | 013-078 | Linch Pin 3/8" Dia. x 2-1/4" Usable | 1 |

## RECOMMENDED SPARE PARTS – OPTIONAL SUPPORT COMPONENTS

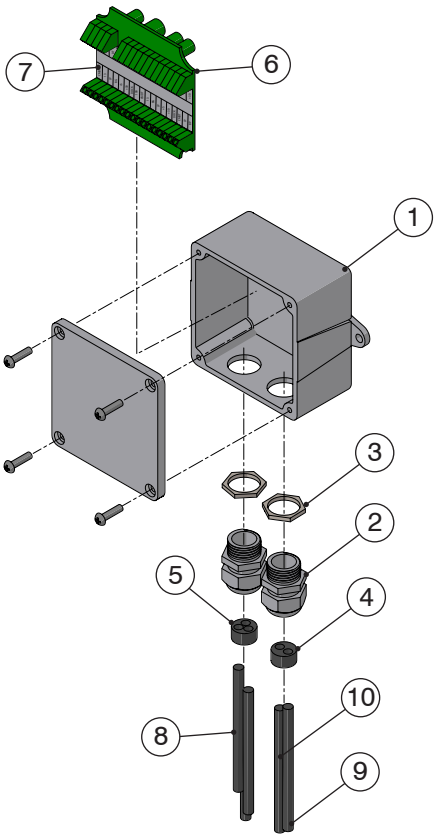



| RSP FOR VL (OPTIONAL) | | | |
|---|---|---|---|
| ITEM | PART NO. | DESCRIPTION | QTY REQ'D |
| 14 | 23-013158-_ | Draft Pad (Specify Door Width) | 1 |
| 15 | 013-092 | Lock-out/Tag-out Safety Stand Pin | 1 |

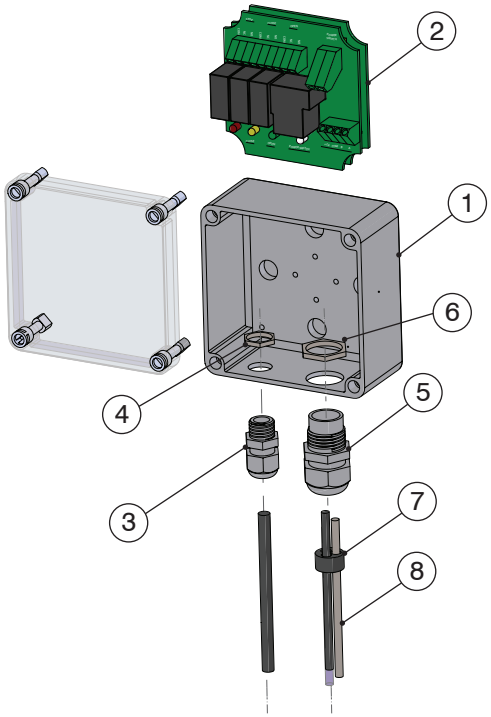
## STANDARD REMOTE I/O

| STANDARD REMOTE I/O PART # 026-H28 | | | |
|---|---|---|---|
| **ITEM** | **QTY** | **PART NO.** | **DESCRIPTION** |
| 1 | 1 | 025-G020-M | Junction Box 4" x 4" |
| 2 | 2 | 025-174 | PG16 Cable Gland |
| 3 | 2 | 025-177 | PG16 Metal Locknut |
| 4 | 1 | 025-179 | PG16 Multi-Hole Seal - 2 Holes |
| 5 | 1 | 025-175 | PG16 Multi-Hole Seal - 3 Holes |
| 6 | 1 | 026-G025BM | Remote I/O Board (No Resistor) |
| 7 | 1 | 038-279 | Circuit Board Decal |
| 8 | 3 | 026-G074 | Solenoid Valve Connector - 5' (1.5 m) |
| 9 | 1 | 026-H16-1 | Communication Harness with cable - 30' (9.1 m) |
| 10 | 1 | 026-H01-1 | Communication Cable - 3 Wire - 20' (6 m) |




## OPTIONAL DOOR REMOTE I/O

| OPTIONAL DOOR REMOTE I/O PART # 70-0020 | | | |
|---|---|---|---|
| **ITEM** | **QTY** | **PART NO.** | **DESCRIPTION** |
| 1 | 1 | 110-404 | Junction Box |
| 2 | 1 | 026-G025-99 | Remote I/O Board (Door Control) |
| 3 | 1 | 025-173 | PG9 Cable Gland |
| 4 | 1 | 025-176 | PG9 Metal Locknut |
| 5 | 1 | 025-174 | PG16 Cable Gland |
| 6 | 1 | 025-177 | PG16 Metal Locknut |
| 7 | 1 | 025-175 | PG16 Multi-Hole Seal - 3 holes |
| 8 | 1 | 026-G031-C | Communication Cable Shielded - 15' (4.5 m) |




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