

PARTS LIST

STRONGARM™ TL85 VEHICLE RESTRAINT



LEGEND

- | | |
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| <div style="background-color: #0070C0; color: white; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">W</div> | Section or item applies only to Remote Wall-Mounted Powerpack. |
| <div style="background-color: #FFA500; color: white; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">P</div> | Section or item applies only to Remote Pit-Mounted Powerpack. |
| <div style="background-color: #FFFF00; color: black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">S</div> | Section or item applies only to Self-Contained Powerpack. |



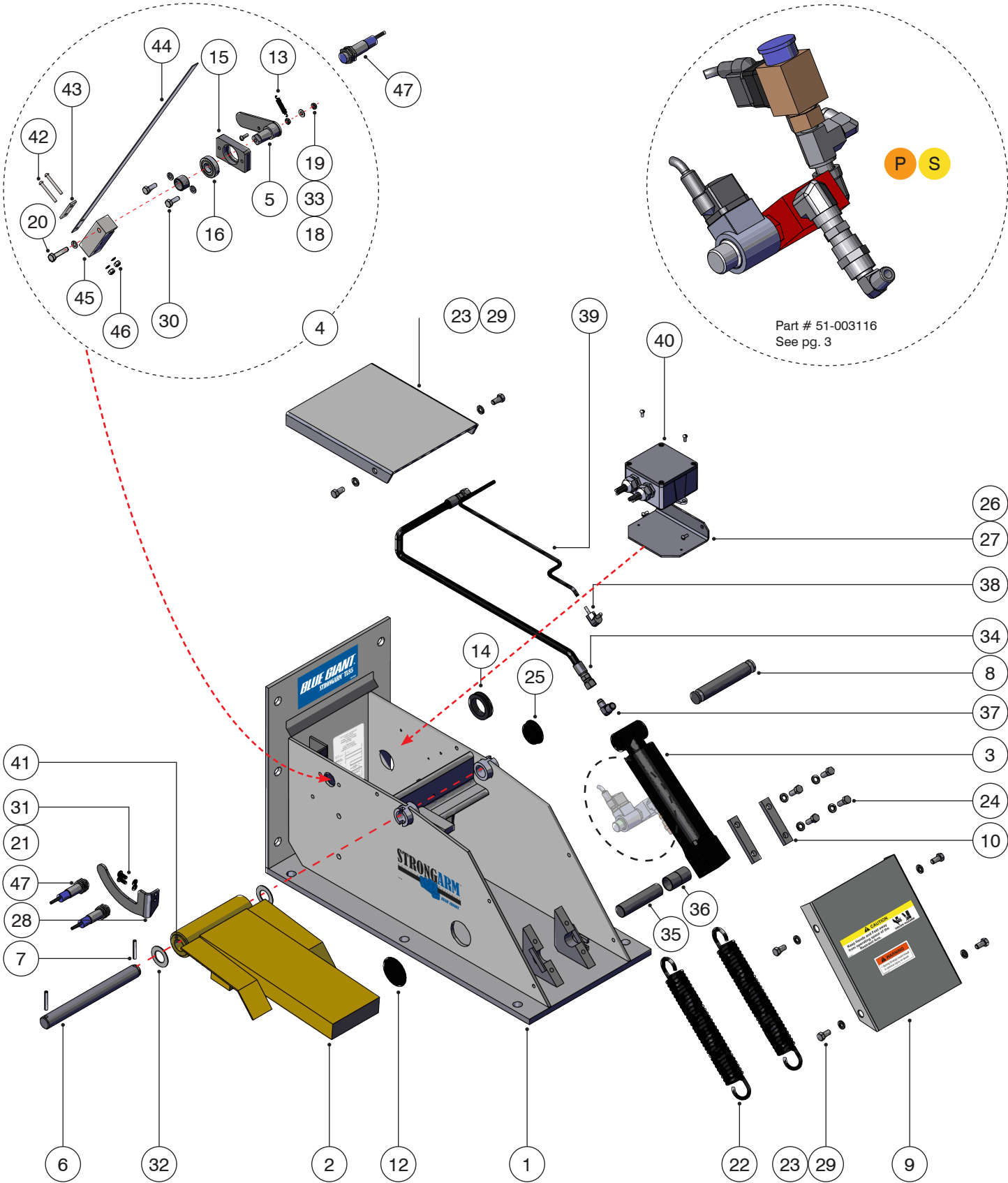
**STARTING FROM: MARCH, 2016
SERIAL # 411892**

BLUE GIANT®

ISSUE DATE: SEPTEMBER 13, 2017 (PART # 038-967EPL)

MECHANICAL ASSEMBLY - 51-013732

W



MECHANICAL ASSEMBLY - 51-013732 CONT'D.

W

ITEM	QTY	PART NO.	DESCRIPTION
1	1	51-001977	Body Weldment
2	1	51-012864	Arm Assembly 26" (660 mm) with Bushings
3	1	035-662	Cylinder Assembly 2" dia. (51 mm)
4	1	51-012862	Sensor Wand Assembly
5	1	51-002052	Wand Axle Weldment
6	1	115-099	Hinge Pin
7	2	013-011-1	Spring Pin- SS
8	1	115-094	Spring Holder Pin
9	1	115-100	Front Cover
10	2	113-096	Pivot Block Top Plate
11	1	115-103	Top Cover
12	1	R3-93002	Plug Button 2" dia. x 1/8" (51 x 3 mm)
13	1	017-085	Extension Spring 1/2" OD x .34" THK x 1 1/4 LNG (13 x 9 x 32 mm)
14	1	037-079	Grommet 1 1/2" x 2 1/8" (38 x 54 mm)
15	1	51-002213	Bearing Square Block
16	1	018-640	Bearing- R10-2RS - ID: 5/8" OD :1 3/8" 11/32" (63 x 40 x 9 mm)
17	1	51-002306	Metallic Spacer
18	1	011-005	Screw Machine R/H slot # 8 - 32 x 1/2" (13 mm)
19	2	011-515	Hex Machine Screw Nut # 8 - 32
20	1	010-154	Hex Bolt 1/4 - 20 UNC X 1 1/4 LNG
21	5	012-202	Regular Lock Washer 0.25
22	2	017-034	Spring Wire OD: 1 5/8" x 1/4" Thick (26 x 6 mm)
23	10	012-201	Regular LW 0.375

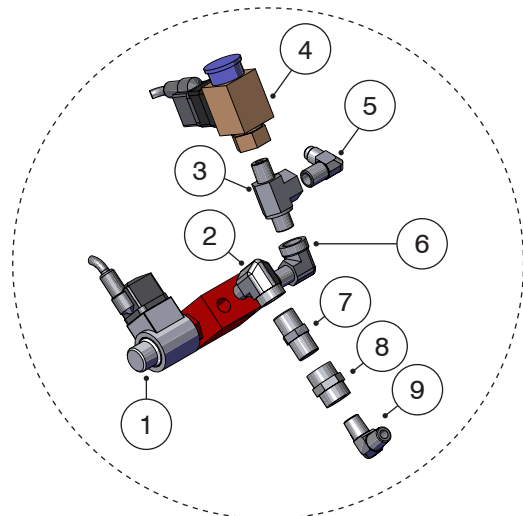
* W † P

ITEM	QTY	PART NO.	DESCRIPTION
24	4	010-039	Hex Bolt 3/8 - 16 UNC X 1 LNG
25	1	037-081	Hole Plug 1 3/4" dia. (44 mm)
26	1	51-002204	Junction Box Bracket
27	4	011-010	SL-RHMS # 10 - 24 x 0.4375
28	1	51-001945	Angular Position Cam
29	6	010-012	Hex Bolt 3/8 - 16 UNC x 3/4 LNG
30	2	010-000	Hex Bolt 0.25 - 20 UNC x 0.75 LNG
31	2	010-215	Machined Screw 1/4 - 20 x 5/8 LG
32	2	106-389	Spacer Washer
33	1	012-206	Flat Washer # 10 OD .5" (13 mm)
34	1	100-5000-41	Hose Assembly # 4 high pressure 22' (6.7 m)*
	1	100-5000-40	Hose Assembly # 4 high pressure 14' (4.3 m)†
35	1	115-307	Cylinder Pin
36	2	018-017	Bushing
37	1	034-511	Fitting, 90 DEG, Elbow *
38	1	040-007	Male Elbow 90 DEG 1/4 tube
39	1	090-909-2400	Tube Polyethylene 20' LG (6.1 m)
40	1	026-H22	TL85 - J-Box Harness* See pg. 11
	1	026-H23	TL85 - J-Box Harness† See pg. 11
41	2	018-013	Bushing, Bronze Oilite Flanged
42	2	011-007	Screw Machine R/H Slot
43	1	116-863	Mounting Block Top Plate
44	1	51-013611	Sensor Wand
45	1	51-002317	Wand Mounting Block
46	2	011-623	Lock Nut 8/32" Nylon Insert
47	3	028-200	Proximity Sensor

ARM LOCK AND PRESSURE SWITCH ASSEMBLY - 51-003116

P S

ITEM	QTY	PART NO.	DESCRIPTION
1	1	033-508-24-K	Arm Lowering Valve
2	1	034-567	Fitting, 90 DEG, 3/8 NPT Female, 1/4 NPT Male
3	1	034-698	Fitting, Tee, 1/4 NPT Male, Female, Male
4	1	035-293-A	Pressure Switch
5	1	034-511	Adapter, 90 DEG, 1/4 NPT Male #5 JIC 37 DEG
6	1	034-566	Fitting, Elbow, 1/4 NPT Male, 1/4 NPT Female
7	1	034-507	Fitting, 3/8 NPT Male Straight
8	1	034-522	Female Coupling 3/8 NPT
9	1	034-599	Adapter, Elbow, 1/4 NPT Male, 3/8 NPT Male

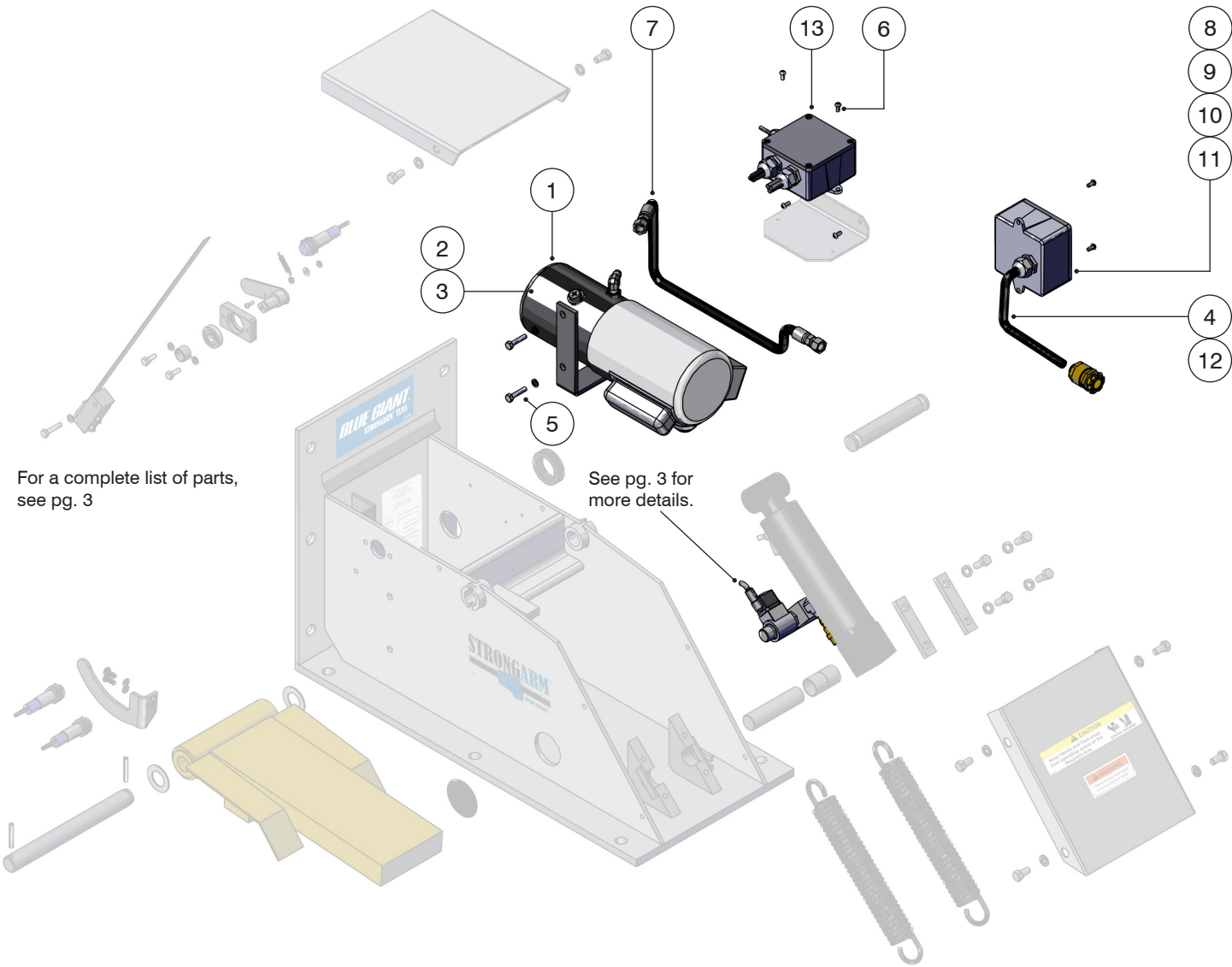


ALTERNATIVE POWERPACK OPTIONS

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The TL85 is also available with a self-contained powerpack to suit site conditions.

MECHANICAL ASSEMBLY (SELF-CONTAINED POWERPACK)- 51-013731



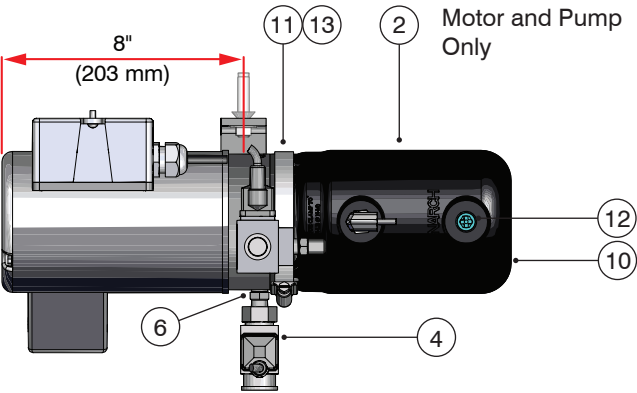
The following items and quantities are unique to the TL85 with self-contained powerpack.

ITEM	QTY	PART NO.	DESCRIPTION
1	1	033-697	Powerpack, 1PH-115-230V-50-60HZ
		033-690	Powerpack, 3PH-230-460V-50-60HZ
		033-143	Powerpack, 3PH-575V-60HZ
2	1	035-436	Tank and Bolts (Included in Item 1)
3	1	036-197	"O" Ring for Tank
4	1	026-H07-1	Harness with Cable, 1PH
		026-H08	Harness with Cable, 3PH
5	6	010-039	Hex Bolt 3/8 - 16 UNC X 1 LNG

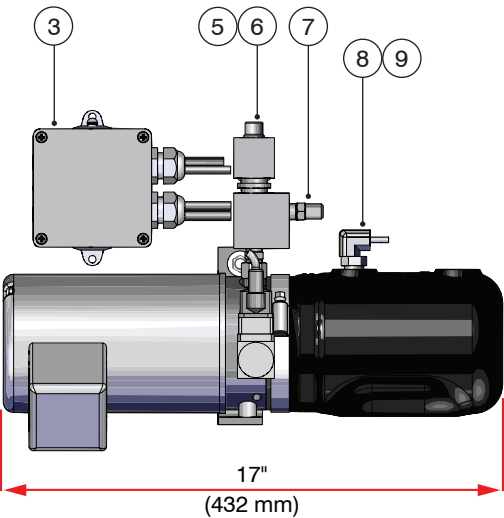
ITEM	QTY	PART NO.	DESCRIPTION
6	6	011-010	SL-RHMS #10 - 24 x 0.4375
7	1	100-5000-5	Hose Assembly #4 High Pressure 20" (.5m)
8	1	025-G020-C	Junction Box 4" x 4" (102 x 102 mm)
9	1	025-174	PG16 Cable Gland
10	1	025-177	PG16 Metal Locknut
11	1	025-172	Terminal Strip
12	1	025-016	Fitting SR-50-625 3/4" (19 mm)
13	1	026-H25	J-Box (See Sec. 13.9)

POWERPACK PART IDENTIFICATION - REMOTE WALL-MOUNTED

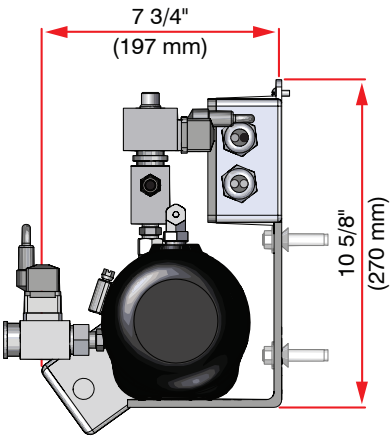
1 Full Powerpack Assembly



Top View – Wall Mount



Front View – Wall Mount



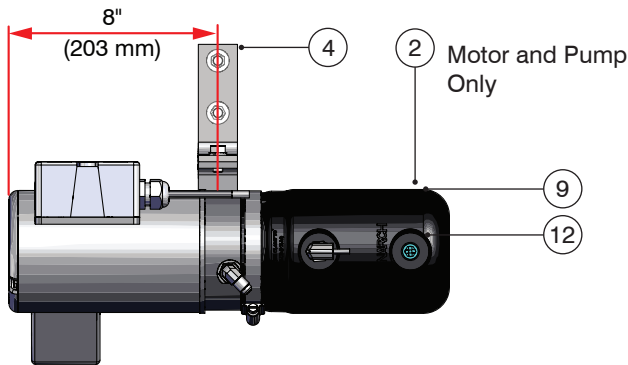
Side View (Tank End) – Wall Mount

TL85 POWERPACK - WALL BRACKET ASSEMBLY # 51-009410				
ITEM	QTY	PART NO.	DESCRIPTION	ITEM #1
2	1	033-897	TL85 PPACK - Wall	1PH-115-230V-50-60HZ 51-009410-1
		033-899		3PH-230-460V-50-60HZ 51-009410-2
		033-900		3PH-575V-60HZ 51-009410-3
		033-898		1PH-240V-50HZ 51-009410-4
3	1	026-H21	Junction Box Assembly (See pg. 10)	
4	1	035-293-A	Pressure Switch	
5	1	033-508-24-K	Solenoid Valve, 24V DC Connector	

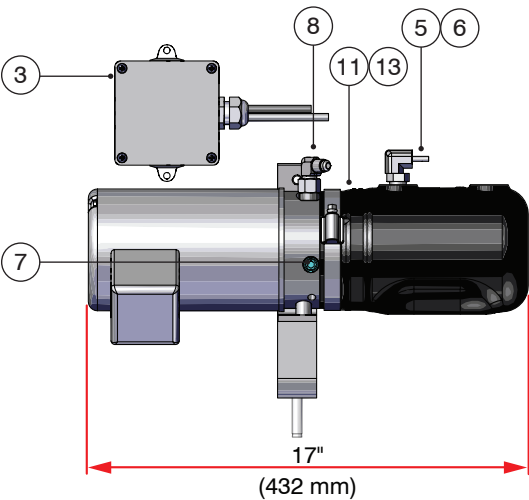
ITEM	QTY	PART NO.	DESCRIPTION
6	2	034-560	Adapter
7	1	034-517	Straight Steel Adapter
8	1	034-726	Reducer Bushing
9	1	040-007	Elbow, Male, 90 DEG for 1/4" dia Rigid Type Tube
10	1	033-901	Tank
11	1	036-197	"O" Ring for Tank
12	1	021-331	Breather Plug
13	1	FP7900	Clamp

POWERPACK PART IDENTIFICATION - REMOTE PIT-MOUNTED

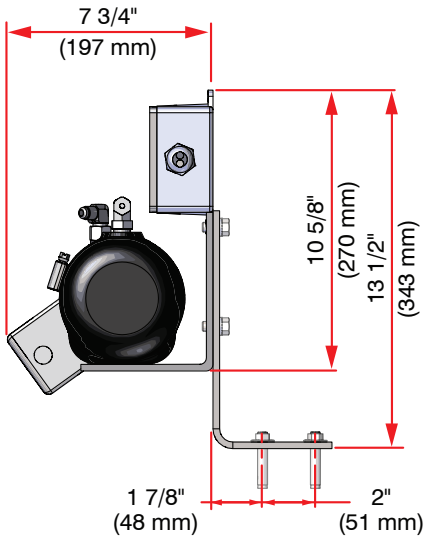
1 Full Powerpack Assembly



Top View – Wall Mount



Front View – Wall Mount



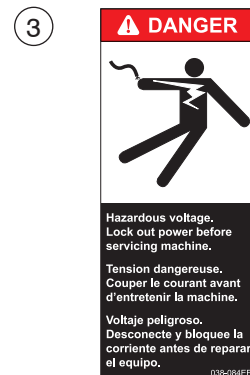
Side View (Tank End) – Wall Mount

TL85 POWERPACK - WALL BRACKET ASSEMBLY # 51-012894				
ITEM	QTY	PART NO.	DESCRIPTION	ITEM #1
2	1	033-897	TL85 PPACK - Pit	1PH-115-230V-50-60HZ 51-012894-1
		033-899		3PH-230-460V-50-60HZ 51-012894-2
		033-900		3PH-575V-60HZ 51-012894-3
		033-898		1PH-240V-50HZ 51-012894-4
3	1	026-H25	Junction Box Assembly (See pg. 10)	
4	1	51-012818	L Bracket	
5	1	034-726	Reducer Bushing	

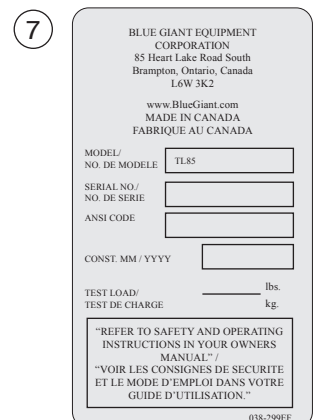
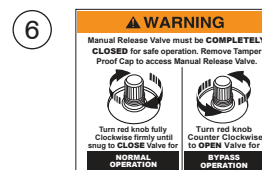
ITEM	QTY	PART NO.	DESCRIPTION
6	1	040-007	Elbow, Male, 90 DEG for 1/4" dia. Rigid Type Tube
7	2	021-090	Plug Socket Pipe
8	1	034-511	Adapter 90 DEG
9	1	033-901	Tank
11	1	036-197	"O" Ring for Tank
12	1	021-331	Breather Plug
13	1	#FP7900	Clamp

Top cover removed for clarity.

Inside of plug button shown.

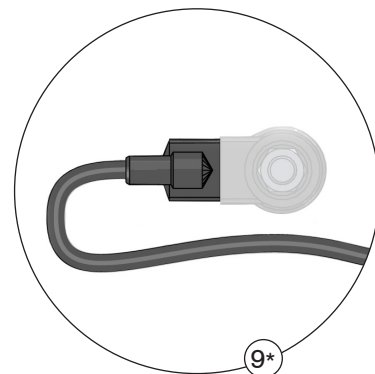
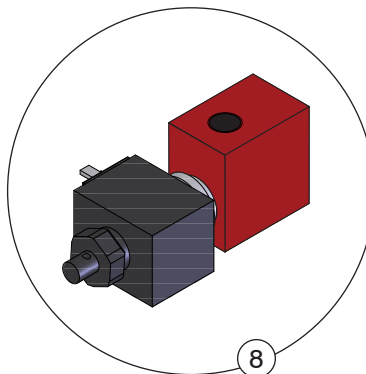
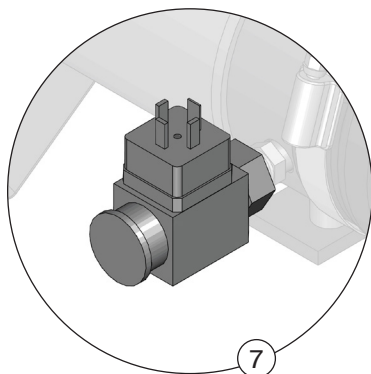
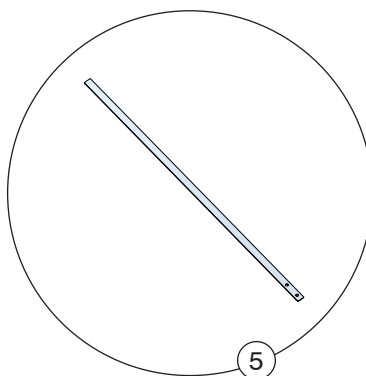
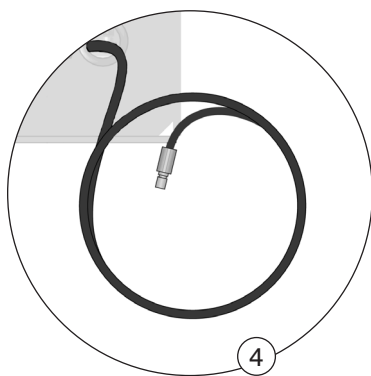
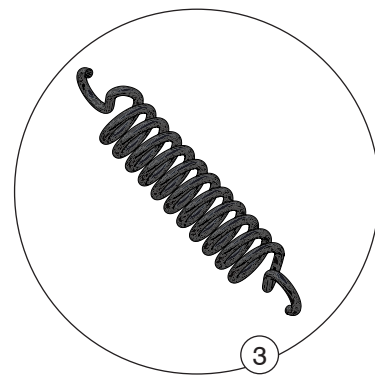
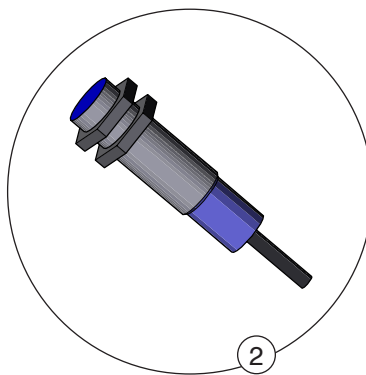
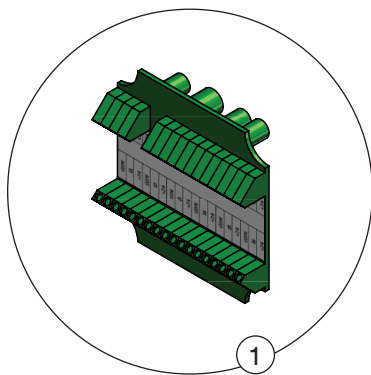


ITEM	QTY	PART NO.	DESCRIPTION
1	1	038-863	Decal - BG StrongArm™ TL85
2	2	038-240	Decal - StrongArm™ - Vehicle Restraint
3	1	038-084EFS	Warning Decal - Hazardous Voltage
4	1	038-048-2	Warning Decal - Spring Energy
5	1	038-243E	Decal- Crush Hazard
6	1	038-057	Decal - Manual Release Valve
7	1	038-299EF	Decal - Serial Plate - English / French
		038-299ES	Decal - Serial Plate - English / Spanish



RECOMMENDED SPARE PARTS - STANDARD OPERATIONAL COMPONENTS

W P S



RSP FOR TL85 – STANDARD OPERATIONAL COMPONENTS

ITEM	PART NO.	DESCRIPTION	QTY REQ'D
1	026-G025M	Remote I/O Board (Resistor)	1
2	028-200	Proximity Sensor, 18 mm	1
3	017-085	Extension Spring, Wand Return	1
4	100-5000-41	Hose Assembly #4 high pressure 22' (6.7m) W	1
	100-5000-40	Hose Assembly #4 high pressure 14' (4.3m) P	
	100-5000-5	Hose Assembly #4 high pressure 20' (.5m) S	

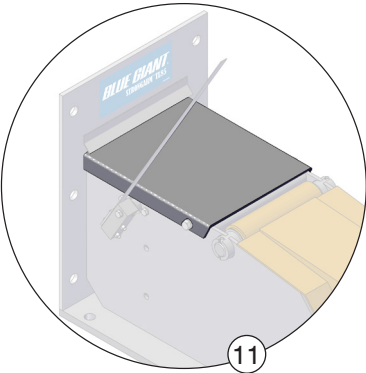
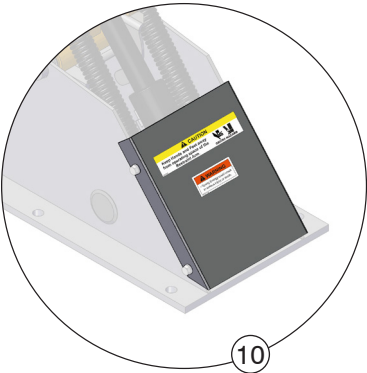
RSP FOR TL85 – STANDARD OPERATIONAL COMPONENTS

ITEM	PART NO.	DESCRIPTION	QTY REQ'D
5	51-013611	Sensor Wand	1
6	035-662	Cylinder Assembly	1
7	035-293-A	Pressure Switch	1
8	033-508-24K	Solenoid Valve, Arm Lock Valve with Manual Release	1
9*	026-G074	Solenoid Valve Connector with Cable	1

* Optional

RECOMMENDED SPARE PARTS - COMPONENT SHIELDS

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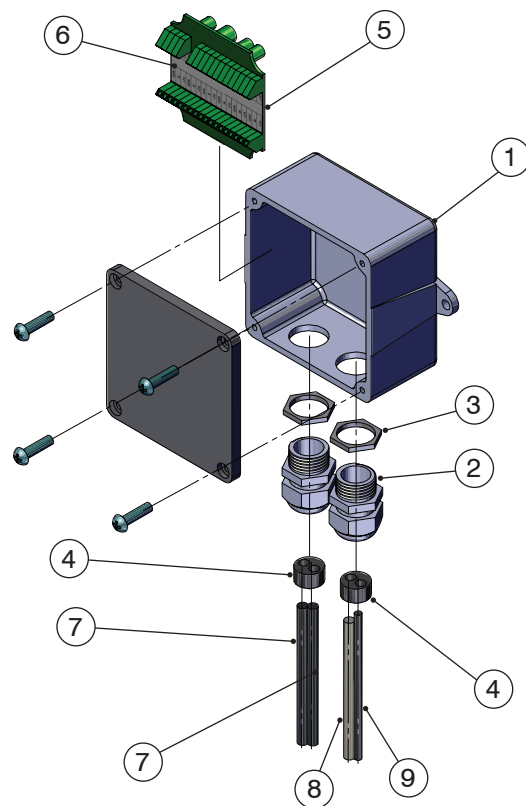


RSP FOR TL85 – COMPONENT SHIELDS			
ITEM	PART NO.	DESCRIPTION	QTY REQ'D
10	115-100	Front Cover	1
11	115-103	Top Cover	1

JUNCTION BOX WITH REMOTE I/O - REMOTE WALL-MOUNTED POWERPACK

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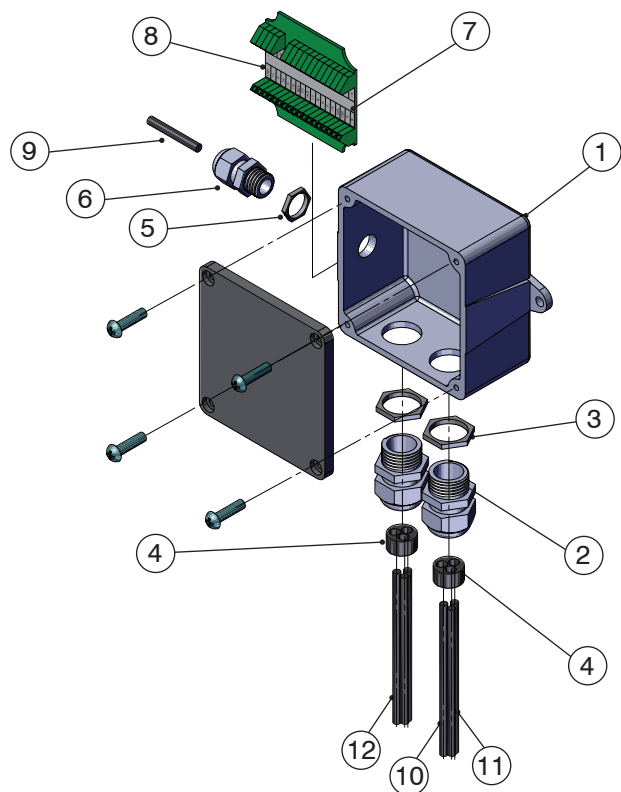
TL85 REMOTE I/O HARNESS ASSEMBLY # 026-H21			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	025-G020-1M	Junction Box 4" x 4" (2 Holes)
2	2	025-174	PG16 Cable Gland
3	2	025-177	PG16 Metal Locknut
4	2	025-179	PG16 Multi-Hole Seal (2 Holes)
5	1	026-G025M	Remote I/O Board (Resistor)
6	1	038-279	Circuit Board Decal
7	2	026-G074	Solenoid Valve Connector - 5' (1.52 m)
8	1	026-H16-1	Communication Cable to Blue Genius™ - 30' (9.14 m)
9	1	026-G034-2400	Unshielded Cable #20 AWG - 7 Wire - 20' (6.09 m)



JUNCTION BOX WITH REMOTE I/O - REMOTE PIT-MOUNTED POWERPACK

P

TL85 REMOTE I/O HARNESS ASSEMBLY # 026-H25			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	025-G020-1N	Junction Box 4" x 4" (3 Holes)
2	2	025-174	PG16 Cable Gland
3	2	025-177	PG16 Metal Locknut
4	2	025-175	PG16 Multi-Hole Seal (3 Holes)
5	1	025-176	PG9 Metal Locknut
6	1	025-173	Cable Gland 2-8mm Range
7	1	026-G025	Remote I/O Board
8	1	038-279	Circuit Board Decal
9	1	028-199	Proximity Sensor (30mm Unshielded)
10	2	026-G074	Solenoid Valve Connector - 5' (1.52 m)
11	1	026-H16-1	Communication Cable to Blue Genius™ - 30' (9.14 m)
12	3	028-200	Proximity Sensor (18mm Shielded) 10-30V

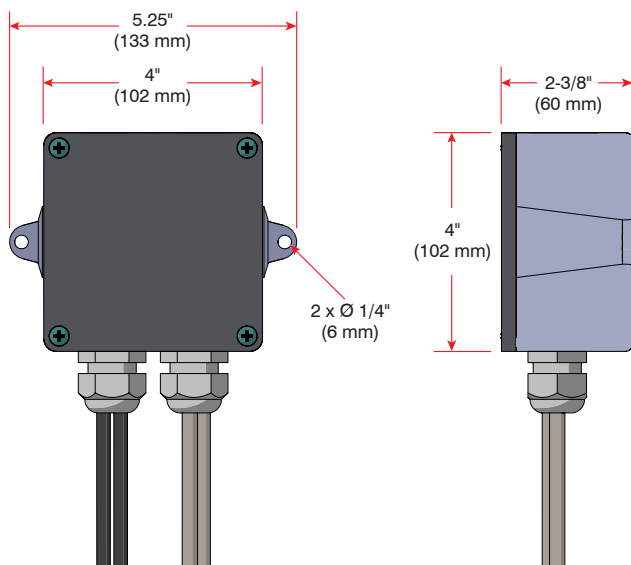


JUNCTION BOX HARNESS

TL85 JUNCTION BOX ASSEMBLY - WALL (IN UNIT) # 026-H22			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	025-G020-1M	Junction Box 4" x 4" (2 Holes)
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	025-172	Terminal Strip - 12 Poles
7	1	028-199	Proximity Sensor (30mm Unshielded)
8	3	028-200	Proximity Sensor (18mm Shielded) 10-30V
9	1	026-G034-2400	Unshielded Cable #20 AWG - 7 Wire - 20' (6.09 m)

TL85 JUNCTION BOX ASSEMBLY - PIT (IN UNIT) # 026-H23			
4	-1	025-179	PG16 Multi-Hole Seal (2 Holes)
5	+1	025-172	PG16 Multi-Hole Seal (3 Holes)
9	-1	026-G034-2400	Unshielded Cable #20 AWG - 7 Wire - 20' (6.09 m)
10	+2	026-G074	Solenoid Valve Connector - 5' (1.52 m)

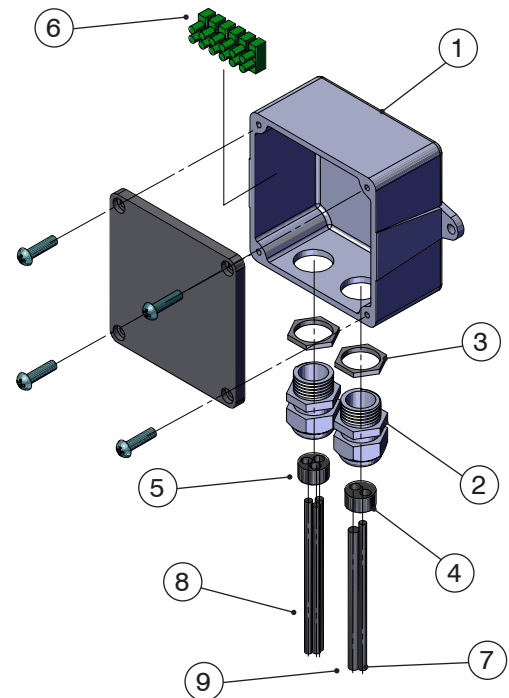
JUNCTION BOX DIMENSIONS



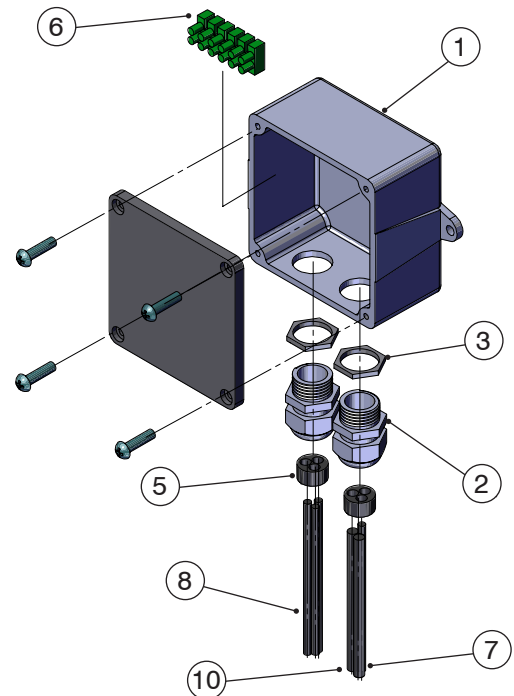
Junction Box - Front View

Junction Box - Side View

TL85 JUNCTION BOX ASSEMBLY - WALL (IN UNIT)



TL85 JUNCTION BOX ASSEMBLY - PIT (IN UNIT)



NOTE: 026-H23 contains the same parts and quantity of parts as 026-H22, except where noted by a + or -.



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