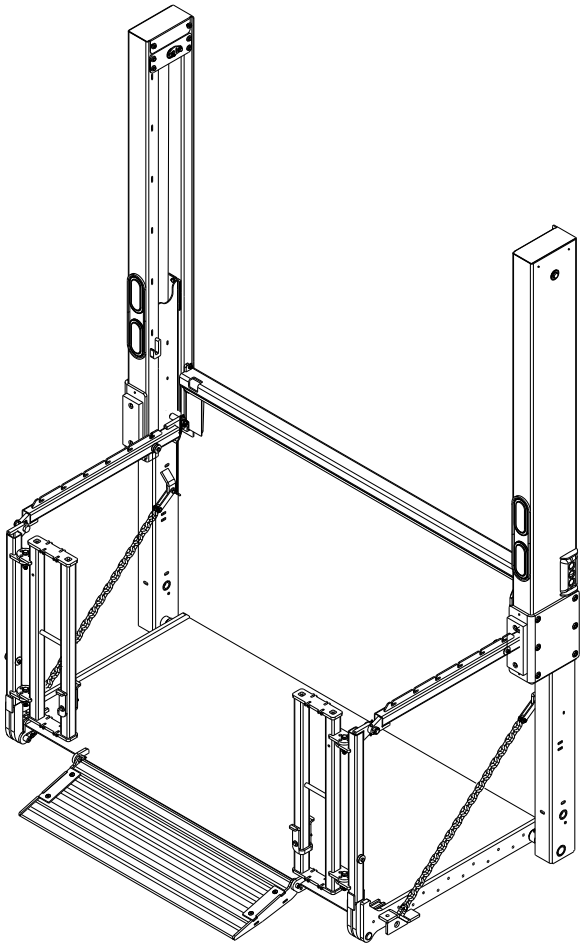
PALFINGER

LIFTGATES

PARTS MANUAL

PTV-BG 35, 3500 lbs. Capacity
PTV-BG 44, 4400 lbs. Capacity



07/21

PTV-BG 35/44 Parts Manual
Document Part Number: 90-1121-103 / 21-680_90-00_01-03
ECN-M1582, Rev. 1.0, 07-23-21
Copyright © 2021 Palfinger Liftgates LLC.
All rights reserved.

Information in this document is subject to change without notice.
Visit www.palfinger.com for up to date information and notifications.

If you received this product with damaged or missing parts,
contact Palfinger Liftgates at (888)-774-5844

Parts Order
liftgateparts@palfinger.com

Technical Support
technicalapplications@palfinger.com

PALFINGER LIFTGATES
15939 Piuma Ave.
Cerritos, CA 90703
Tel (888) 774-5844
Fax (562) 924-8318

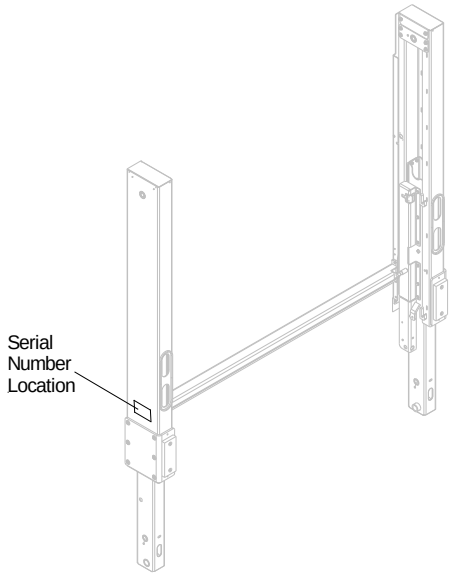
PALFINGER LIFTGATES
572 Whitehead Road.
Trenton, NJ 08619
Tel (609) 587-4200
Fax (609) 587-4201

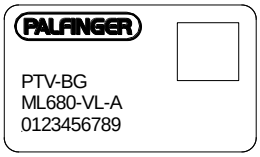
Parts Orders:

- **There is a $50.00 minimum parts order.**
- **Ground freight is free for spare parts orders exceeding $1,500.00, excluding platforms, runners, mount frames and other main assemblies.**
- **Contact parts department, our hours are from 8 am EST in NJ until 5 pm PST in CA**
- **California: (888) 774-5844, or (562)924-8218, ext. 97, 29 , or 15; Fax: (562) 924-8318.**
  New Jersey: at (609) 587-4200; Fax: (609) 587-4201.
  E-mail orders or inquiries for both locations to: liftgateparts@palfinger.com
- **Next Day Air shipments must be received by 2:30 pm local time at either location.**
- **To ensure quick delivery when placing an order, please be sure to include: liftgate model, serial number, part number, and description in accordance with spare Parts List.**
- **Any parts being returned must have Return Merchandise Authorization (RMA) number, copy of invoice and a detailed packing list of returned parts. RMA numbers will be issued by parts department and are valid for 30 days. All returned RMA parts must be returned to Palfinger Liftgates by prepaid freight or by call tag.**
- **Parts must be returned in NEW CONDITION. To receive credit on returned parts, the original purchase date must be within 6 month and authorized by Palfinger Liftgates.**
- **Returned parts are subject to a 20% restocking charge.**
- **Any part received not in new condition will be subject to inspection and possible refusal. All Palfinger Liftgates parts are covered for one year from date of purchase against defects in material and workmanship.**
- **Warranty Coverage: part replacement only.**

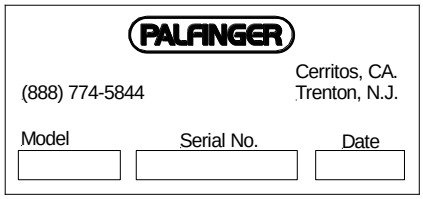
Important Liftgate Information:

1. **Liftgate serial information can be found on the driver side column. Please have the liftgate information ready when ordering parts to assure parts are replaced accurately.**





OR



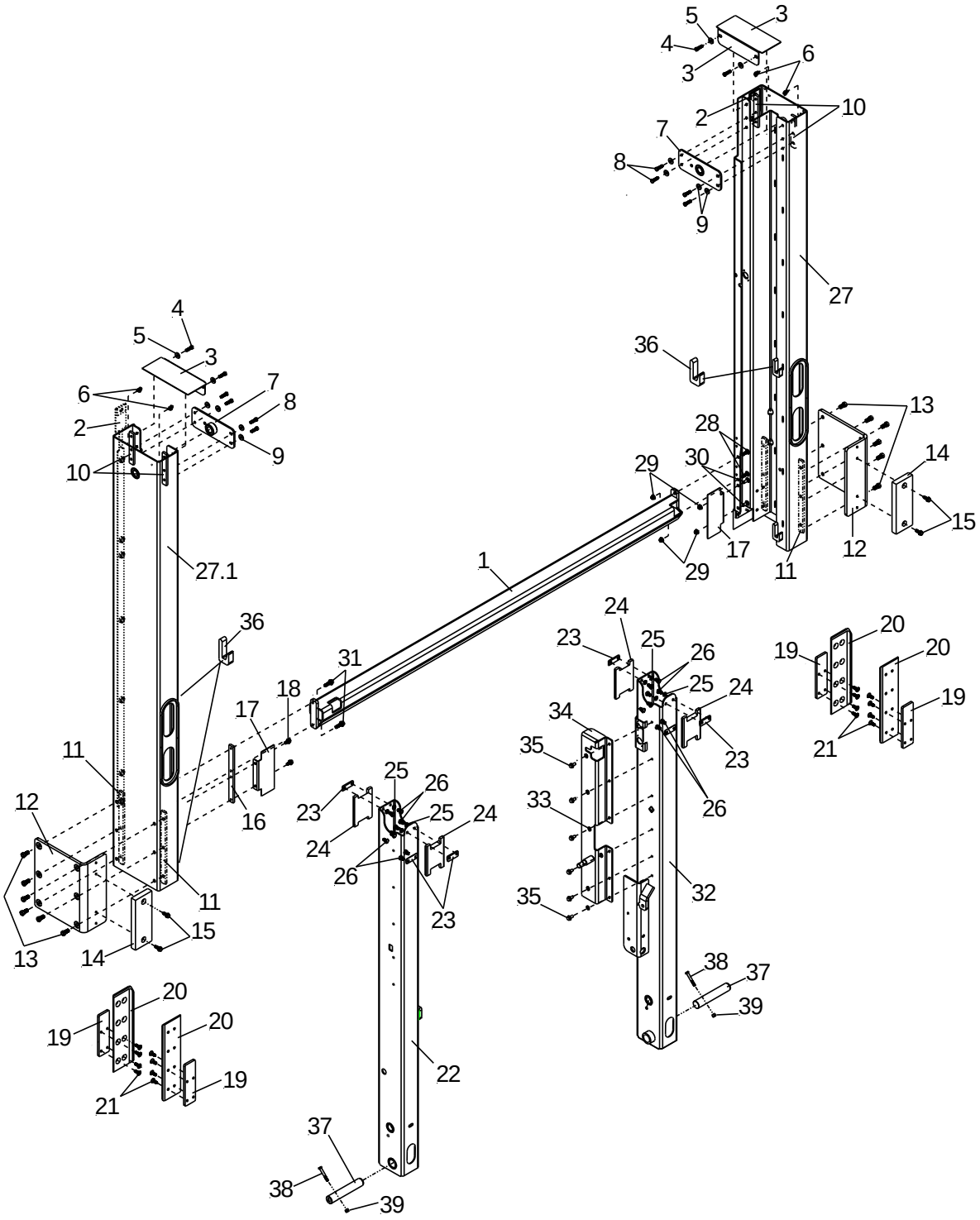
2. **The finish for many parts differs from liftgate to liftgate. It is important to specify what type of finish the replacement part(s) has. Palfinger Liftgates uses galvanized, galvanealed, power coat, paint, and zinc coated components on the different models of liftgates. If not sure what finish is on the part(s), mention this to the Parts Department Representative.**

Table of Contents

1 Columns 6
2 Bolt-On Kit 8
3 Subframe & Bumper 10
4 Platforms 11
4.1 Aluminum Platform 11
4.2 Steel Platforms 12
5 Chain Kit 14
6 Platform Conspicuity Decals 15
7 Platform Railing 16
8 Ramps 18
8.1 Ramp 16” 18
8.2 Ramp- 20” 19
9 Cylinders 20
10 Pins & Bushings 22
11 Control Switches 23
12 Battery Box 24
13 Pump and Motor 26
14 Pump and Motor – Secondary Pump 28
15 Hydraulic Hose Kits 30
16 Light Kits 31
17 Trailer/Truck Charge Kits 32
18 Decals 34
19 Controls 36

1 Columns

Palfinger Liftgates use galvanized, galvanealed, power coat, paint, zinc, and other finishes on different liftgate models. It is important to specify what type of finish is required for the ordered replacement parts.



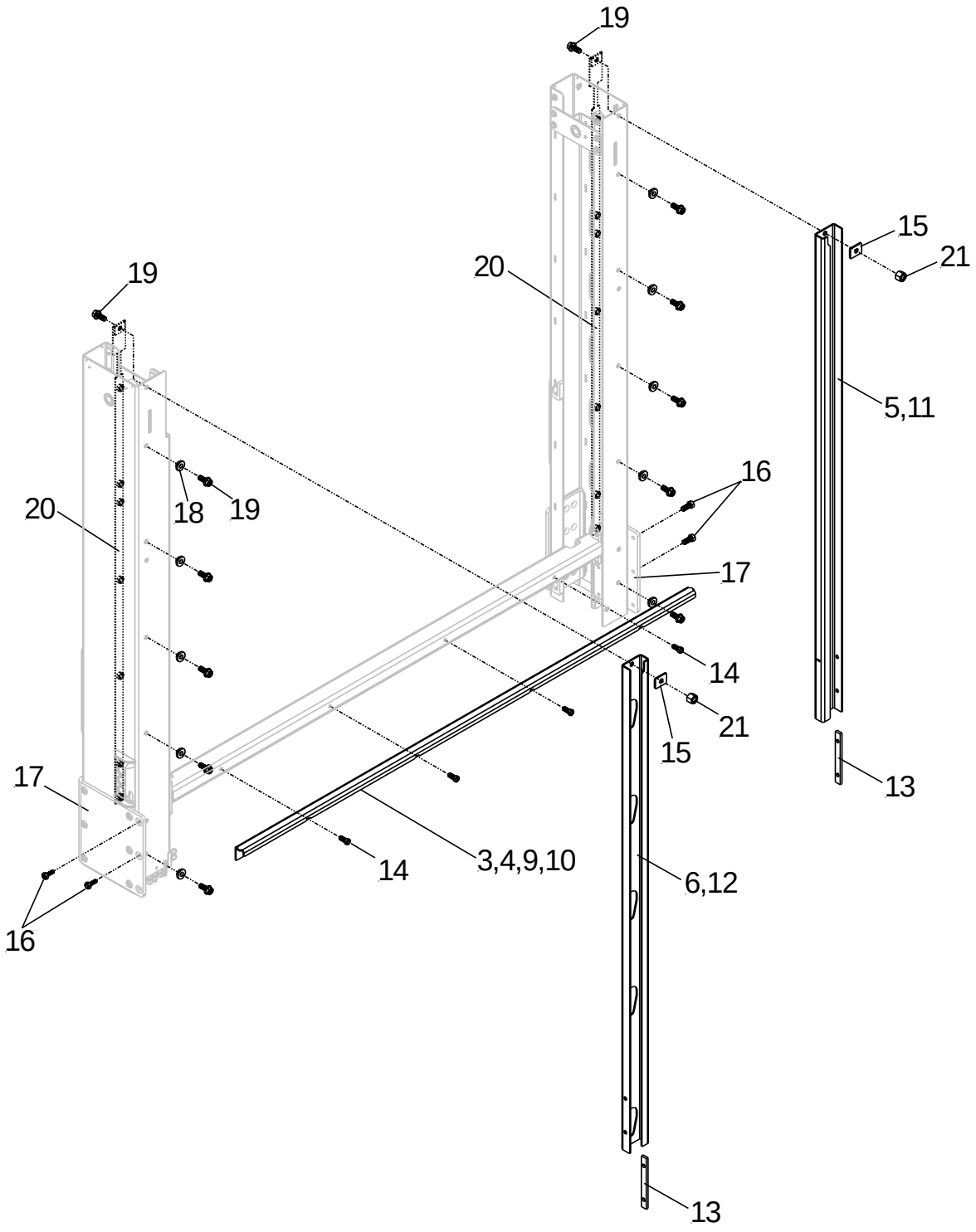
Palfinger Liftgates, LLC.
15939 Piuma Ave, Cerritos, CA 90703
Tel: (888) 774-5844, Fax: (562) 924-8318

Palfinger Liftgates, LLC.
572 Whitehead Road,Trenton, NJ 08619
Tel: (609) 587-4200, Fax: (609) 587-4201

1 - COLUMNS			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Traverse, 88.50” L, 102” Wide, Black	ML04-1119-100+B	1
	Traverse, 88.50” L, 102” Wide, Galvanized	ML04-1119-100+G	1
	Traverse, 82.50” L, 96” Wide, Black	ML04-1119-200+B	1
	Traverse, 82.50” L, 96” Wide, Galvanized	ML04-1119-200+G	1
2	Nut Bar, Weldment, Bolt On Buttons	65-1119-010	2
3	Column Cap	ML65-1118-001	2
4	Hex Head Cap Screw, 3/8”-16 X 1.25", Gr. 8, Yellow Zinc	ES4276	4
5	Washer, 3/8" USS	EK4032	2
6	Cable Holder, Push-In	EZ8352	4
7	Cylinder Mount; Weld, Upper Cylinder Mount	ML02-1119-010	2
8	Hex Head Cap Screw; 3/8”-16 X 1.25", Gr. 5, Zinc	ES3496	4
9	Washer, 3/8", USS	EK4032	4
10	Nut Bar, Threaded Cylinder Mount	65-1119-002	4
11	Nut Bar; Threaded, Traverse	ML65-1119-004	4
12	Column Wrap, Weldment w/Spacer	02-1119-510+G	2
	Column Warp, Weldment w/Spacer, Bolt-On	02-1119-500+G	2
13	Hex Head Cap Screw, ½”-20x1" Gr. 8, Yellow Zinc	ES4275	12
14	Dock Bumper; Pad, UHMW	ML02-1119-601	2
15	Hex Head Cap Screw, 3/8”-16 X 1" Thread Rolling Washer Head, Zinc	ES3803	4
16	Nut Bar, Bolt-On Bracket	ML65-1120-500	1
17	Guard, Hydraulic Lines, Black	ML04-1120-501+B	2
	Guard, Hydraulic Lines, Galvanized	ML04-1120-501+G	2
18	Hex Head Cap Screw, 3/8”-16 X 3/4", Flange Head, Grade 5, Zinc	ES4289	2
19	Plate, Nut, Column Slide Pad	PD-65-1108-101	4
20	Slide Pad, Lower, UHMW	ML60-1120-001	4
21	Flat Head Cap Screw, 3/8”-16x1", Gr.5	ES3452	16
22	Runner Assembly, Left Side, Black	ML03-1120-520	1
	Runner Assembly, Left Side, Galvanized	ML03-1120-520	1
23	Nut Plate, Runner Pad	P-2014812	8
24	Slide Pad, Upper, UHMW	ML60-1120-002	4
25	Washer, M10, Split Lock	EK2740	8
26	Bolt, M10-1.5x12mm, Unfinished, Gr. 8.8	ES4149	16
27	Column Assembly, Right Side, Black	ML02-1120-310+B	1
	Column Assembly, Right Side, Galvanized	ML02-1120-310+G	1
	Column Assembly, Right Side, Bolt-On, Black	ML02-1120-300+B	1
	Column Assembly, Right Side, Bolt-On, Galvanized	ML02-1120-300+G	1
27.1	Column Assembly, Left Side, Black	ML02-1120-410+B	1
	Column Assembly, Left Side, Galvanized	ML02-1120-410+G	1
	Column Assembly, Left Side, Bolt-On, Black	ML02-1120-400+B	1
	Column Assembly, Left Side, Bolt-On, Galvanized	ML02-1120-400+G	1
28	Carriage Bolt, 3/8”-16 X 1 1/4" Grade 8, Yellow Zinc Chromate	ES4284	4
29	Nut, 3/8”-16, Flange, Nylock	EM 931	4
30	Carriage Bolt, 3/8”-16 X1", Hydraulic Line Shield, Right Side	ES3459	2
31	Hex Head Cap Screw, 3/8”-16 X 1-1/4", Flange Head, Gr. 8, Yellow Zinc	ES4283	2
32	Runner Assembly, Right Side, Black	ML03-1120-420+B	1
	Runner Assembly, Right Side, Galvanized	ML03-1120-420+G	1
33	Washer, 3/8", Split Lock	EK3238	6
34	Toggle Switch Cover	ML02-1119-500+G	1
35	Bolt, Thread Rolling, 3/8-16x0.75" Zinc	ES3453	6
36	Catch, Platform Travel Latch, Left Side	24-1113-201	2
37	Pin, ø36x200mm [1.4” x 7.8”], Grease Zerk	2048628	1
38	Hex Head Cap Screw, 3/8”-16x2.50, Partially Threaded, Gr. 5, Zinc	ES3638	2
39	Nut, Nylock, 3/8”-16	EM 698	2

2 Bolt-On Kit

Palfinger Liftgates use galvanized, galvanealed, power coat, paint, zinc, and other finishes on different liftgate models. It is important to specify what type of finish is required for the ordered replacement parts.



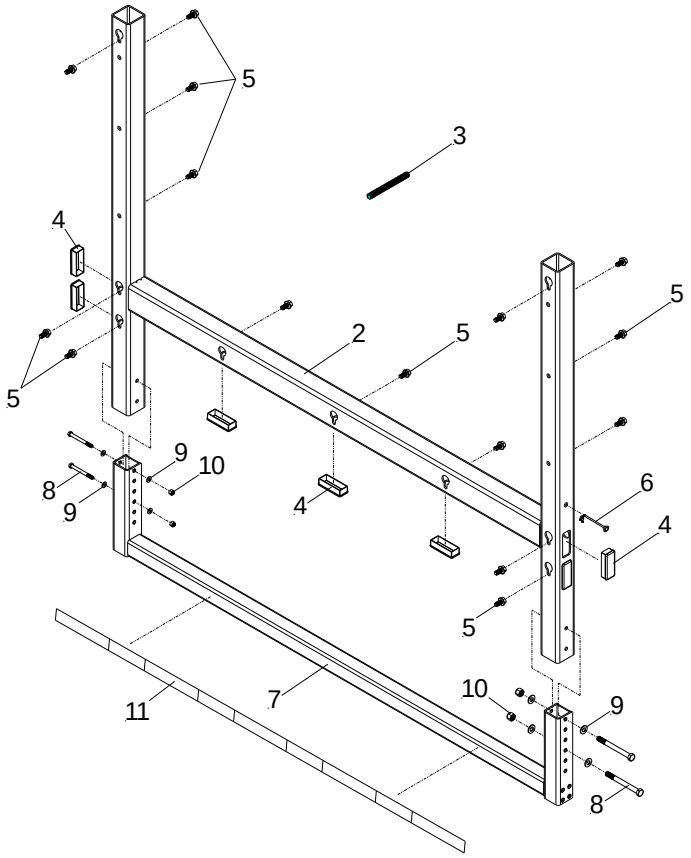
Palfinger Liftgates, LLC.
15939 Piuma Ave, Cerritos, CA 90703
Tel: (888) 774-5844, Fax: (562) 924-8318

Palfinger Liftgates, LLC.
572 Whitehead Road,Trenton, NJ 08619
Tel: (609) 587-4200, Fax: (609) 587-4201

2 – BOLT-ON KIT			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Bolt-On Bracket Kit, Stainless Steel, 102”W	ML65-1120-011	1
2	Bolt-On Bracket Kit, Stainless Steel, 96”W	ML65-1120-012	1
3	Bolt-On Angle, Stainless Steel, 102”W	ML65-1120-602	1
4	Bolt-On Angle, Stainless Steel, 96”W	ML65-1120-604	1
5	Bolt-On Bracket, Stainless Steel, Left Side	ML65-1120-300	1
6	Bolt-On Bracket, Stainless Steel, Right Side	ML65-1120-400	1
7	Bolt-On Bracket Kit, Mild Steel, 102”W, Black	ML65-1120-001+B	1
	Bolt-On Bracket Kit, Mild Steel, 102”W, Galvanized	ML65-1120-001+G	1
8	Bolt-On Bracket Kit, Mild Steel, 96”W, Black	ML65-1120-002+B	1
	Bolt-On Bracket Kit, Mild Steel, 96”W, Galvanized	ML65-1120-002+G	1
9	Bolt-On Angle, Mild Steel, 102”W, Black	ML65-1120-601+B	1
	Bolt-On Angle, Mild Steel, 102”W, Galvanized	ML65-1120-601+G	1
10	Bolt-On Angle, Mild Steel, 96”W, Black	ML65-1120-603+B	1
	Bolt-On Angle, Mild Steel, 96”W, Galvanized	ML65-1120-603+G	1
11	Bolt-On Bracket, Mild Steel, Left Side, Black	ML65-1120-200+B	1
	Bolt-On Bracket, Mild Steel, Left Side, Galvanized	ML65-1120-200+G	1
12	Bolt-On Bracket, Mild Steel, Right Side, Black	ML65-1120-100+B	1
	Bolt-On Bracket, Mild Steel, Right Side, Galvanized	ML65-1120-100+G	1
13	Nut Bar, Bolt-On Bracket	ML65-1120-500	2
14	Hex Head Cap Screw, 9/16”-18 X 1.25”, Gr. 8, Zinc	ES3689	4
15	Washer, Square, Clamp, 3/16”-1/4”, Zinc	60-1013-050	2
16	Hex Head Cap Screw, ½”-20 X 1.00” Gr. 8, Yellow Zinc	ES4275	4
17	Column Wrap, Weld, Bolt-On	02-1119-500+G	2
18	Bolt-On Button	65-1117-001	10
19	Hex Head Cap Screw, 5/8”-11 X 1.75”, Flanged, Gr. 8, Zinc	ES3723	2
20	Nut Bar, Bolt-On Buttons (Pre-welded Inside Column)	65-1119-010	2
21	Nut, Nylock, 5/8”-11, Gr.8	EM 796	2

3 Subframe & Bumper

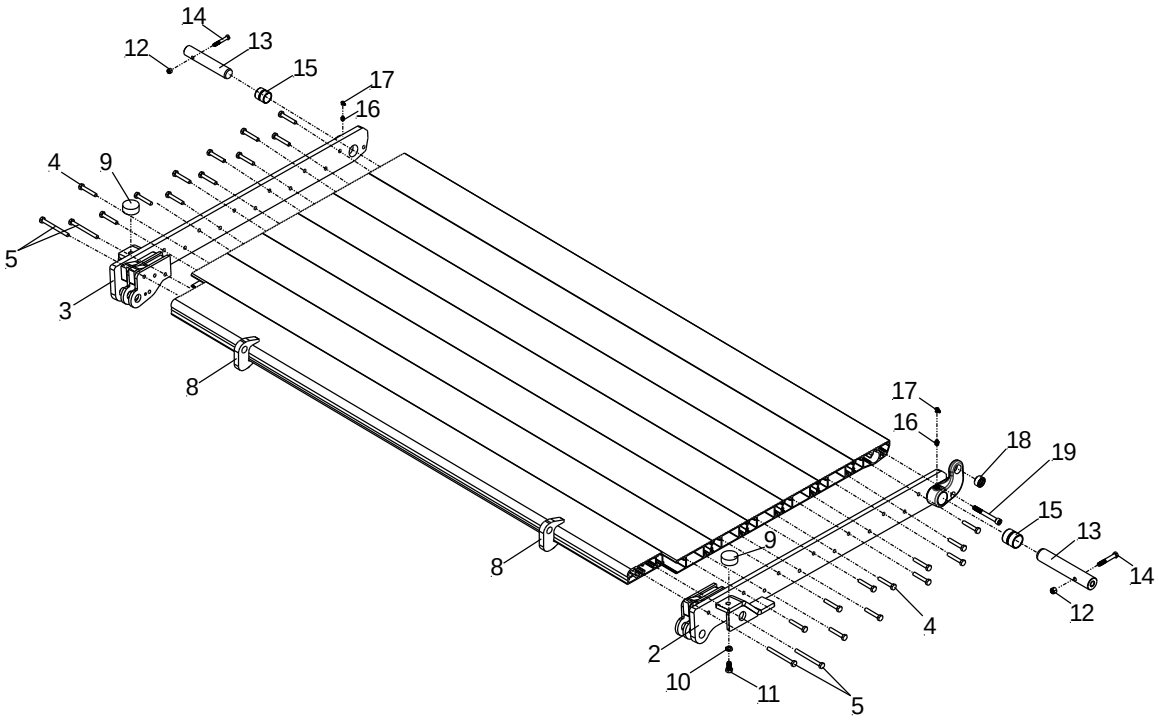
Palfinger Liftgates use galvanized, galvanealed, power coat, paint, zinc, and other finishes on different liftgate models. It is important to specify what type of finish is required for the replacement part(s).



3 – SUBFRAME & BUMPER KIT			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Subframe Kit, PTV, 96”W, Black	ML01-1121-200+B	1
	Subframe Kit, PTV, 96”W, Galvanized	ML01-1121-200+G	1
	Subframe Kit, PTV, 102”W, Black	ML01-1121-100+B	1
	Subframe Kit, PTV, 102”W, Galvanized	ML01-1121-100+G	1
2	Subframe Weldment, 96”W, Black	ML01-1121-020+B	1
	Subframe Weldment, 96”W, Galvanized	ML01-1121-020+G	1
	Subframe Weldment, 102”W, Black	ML01-1121-010+B	1
	Subframe Weldment, 102”W, Galvanized	ML01-1121-010+G	1
3	Split Loom; 1/2"x6.25"	EZ7073	1
4	Cap, Plastic, 2.00"x5.00"	99-8716-000	7
5	Hex Head Cap Screw, 5/8-11x1.25”, Flanged Head, Gr.8, Zinc	ES3438	15
6	Indicator Light, LED, Amber, ø3/4”	70-8013-401	1
7	Bumper Kit, 102”W, Black	ML65-1121-100	1
	Bumper Kit, 102”W, Galvanized	ML65-1121-100	1
	Bumper Kit, 96”W, Black	ML65-1121-200	1
	Bumper Kit, 96”W, Galvanized	ML65-1121-200	1
8	Hex Head Cap Screw, 1/2"-13x5.00"	ES3436	4
9	Washer, Flat,1/2"	EK2796	8
10	Nut, Nylock, ½”-13	EM 689	4
11	Decal, Conspicuity Tape	85-1114-003	1

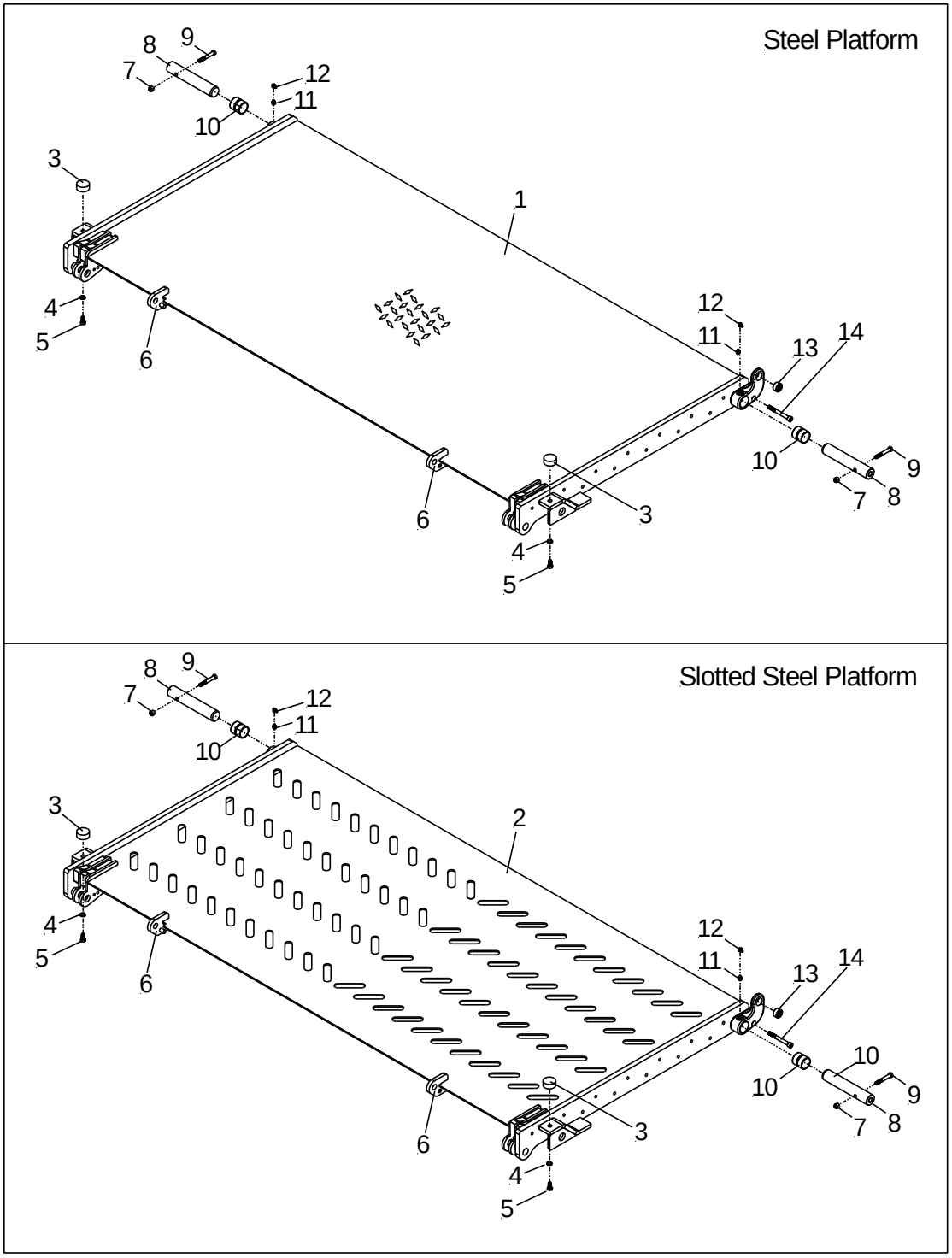
4 Platforms

4.1 Aluminum Platform



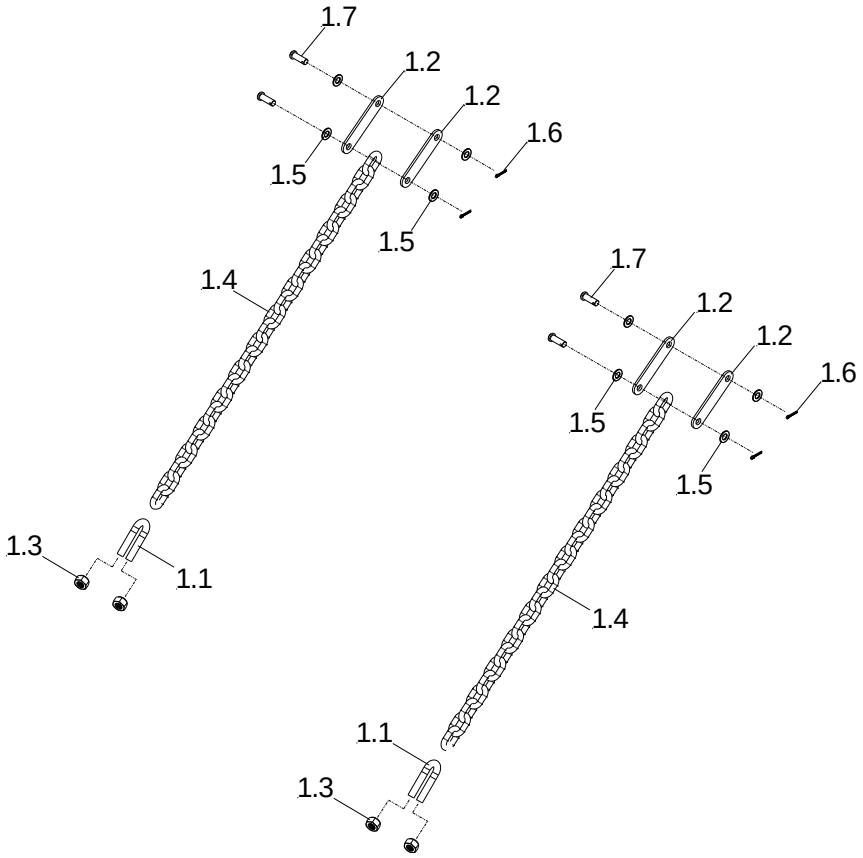
4.1 – ALUMINUM PLATFORM			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Main Platform Assy, Alum., Bottle Gas, 42”x86”, 102”W, Black	ML24-1121-050+B	1
	Main Platform Assy, Alum., Bottle Gas, 42”x86”, 102”W, Galvanized	ML24-1121-050+G	1
	Main Platform Assy, Alum., Bottle Gas, 42”x80”, 96”W, Black	ML24-1121-060+B	1
	Main Platform Assy, Alum., Bottle Gas, 42”x80”, 96”W, Galvanized	ML24-1121-060+G	1
2	Side Bar Assembly, Steel, Right Side, Black	ML24-1121-210+B	1
	Side Bar Assembly, Steel, Right Side, Galvanized	ML24-1121-210+G	1
3	Side Bar Assembly, Steel, Left Side, Black	ML24-1121-220+B	1
	Side Bar Assembly, Steel, Left Side, Galvanized	ML24-1121-220+G	1
4	Hex Head Cap Screw, M10x1.5x60mm, Cl.10.9, Zinc	ES3244	22
5	Hex Head Cap Screw, M10x1.5x110mm, Cl.10.9, Zinc	ES3559	4
6	Ramp Hinge Plate	21-1113-001	2
7	Rubber Snubber Pad	60-7514-002	2
8	Washer, Split Lock, M12	EK2806	2
9	Hex Head Cap Screw, M12x1.75x25mm, Cl.8.8, Zinc	ES 073	2
10	Nut, Nylock, 3/8”-16, Gr. 5, Zinc	EM 708	2
11	Pin, Ø36mm X 200mm, Grease Zerk	2048628	2
12	Hex Head Cap Screw, 3/8”-16 X 2.50” Gr. 5	ES3638	2
13	Bushing, 36mm ID X 40mm X 41mm L	ELG1033	2
14	Zerk Fitting, M10x1	EA-005	2
15	Cap, Zerk Fitting	P-1191680	2
16	Bushing 25x14mm,	ELG1034	1
17	Socket Head Cap Screw, M10x1.5x90mm	ES3618	1

4.2 Steel Platforms



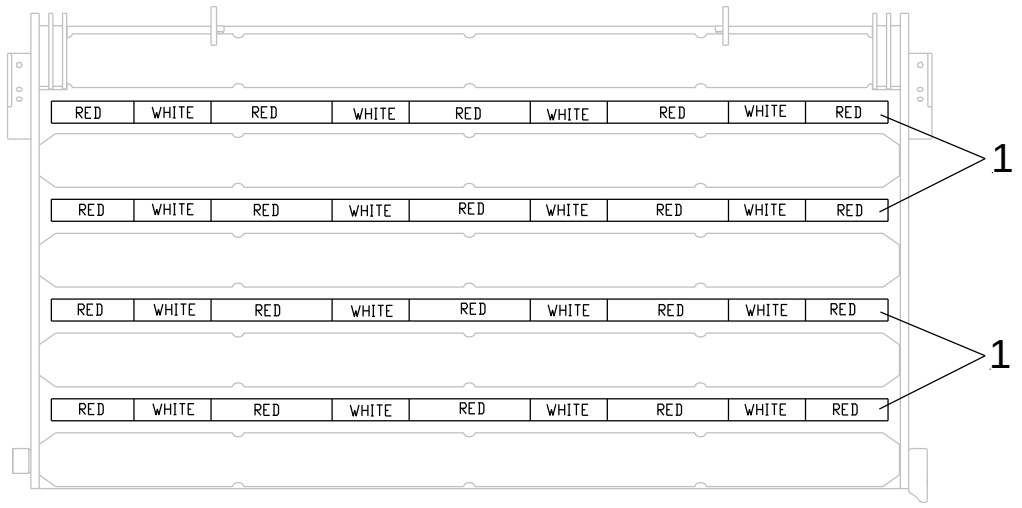
4.2 – STEEL PLATFORM			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Main Platform Assy, Steel, Bottle Gas, 42”x86”, 102”W, Black	ML24-1121-010+B	1
	Main Platform Assy, Steel, Bottle Gas, 42”x86”, 102”W, Galvanized	ML24-1121-010+G	1
	Main Platform Assy, Steel, Bottle Gas, 42”x86”, 102”W, Black	ML24-1121-030+B	1
	Main Platform Assy, Steel, Bottle Gas, 42”x86”, 102”W, Galvanized	ML24-1121-030+G	1
2	Main Platform Assy, Slotted Steel, Bottle Gas, 42”x86”, 102”W, Black	ML24-1121-020+B	1
	Main Platform Assy, Slotted Steel, Bottle Gas, 42”x86”, 102”W, Galvanized	ML24-1121-020+G	1
	Main Platform Assy, Slotted Steel, Bottle Gas, 42”x80”, 102”W, Black	ML24-1121-040+B	1
	Main Platform Assy, Slotted Steel, Bottle Gas, 42”x80”, 102”W, Galvanized	ML24-1121-040+G	1
3	Rubber Snubber Pad	60-7514-002	1
4	Washer, Split Lock, M12	EK2806	1
5	Hex Head Cap Screw, M12x1.75x25mm,Cl.8.8, Zinc	ES 073	1
6	Ramp Hinge Plate	24-1113-604	1
7	Nut, Nylock, 3/8-16, Gr.5, Zinc	EM 708	2
8	Pin, Ø36mm X 200mm, Grease Zerk	2048628	1
9	Hex Head Cap Screw, 3/8-16 x 2.50” Gr. 5	ES3638	1
10	Bushing, 36mm ID X 40mm OD X 41mm L	ELG1033	1
11	Zerk Fitting M10x1	EA-005	1
12	Cap, Zerk Fitting	P-1191680	1
13	Bushing, 25mm ID X 28mm OD X14mm	ELG1034	1
14	Socket Head Cap Screw, M10x1.5x90mm	ES3618	1

5 Chain Kit

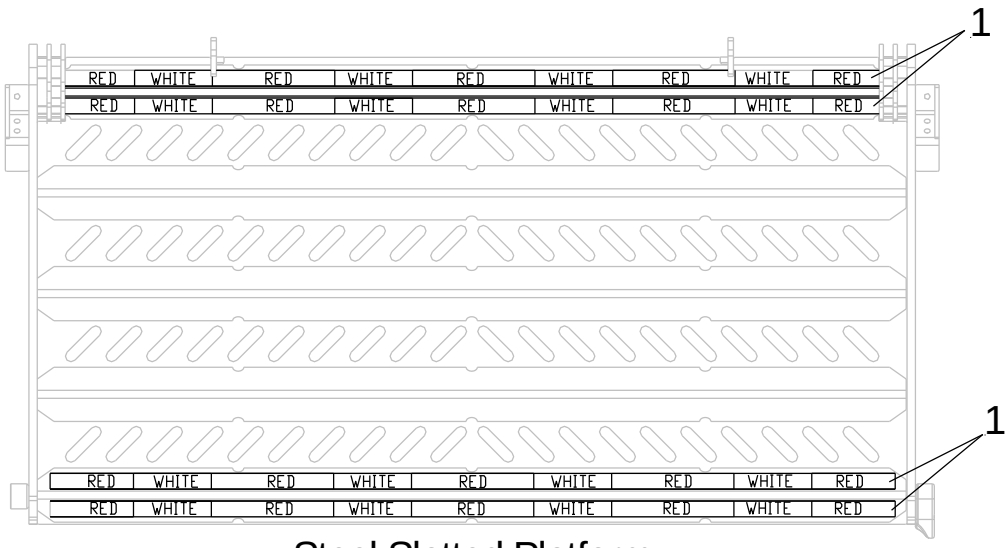


5 – CHAIN KIT			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Chain Kit (Includes: Chain and all hardware)	99-8813-029	1
1,1	U-Bolt	99-1108-101	2
1.2	Chain Swing Anchor	99-1113-010	4
1.3	Nut, Nylock, 1/2"-13	99-8813-005	4
1.4	Chain	99-8813-024	2
1.5	Cut Washer, 7/16”	99-8813-026	8
1.6	Cotter Pin, 1/8”x1.00”	99-8813-028	4
1.7	Clevis Pin, 7/16”x1.25”	99-8813-027	4

6 Platform Conspicuity Decals



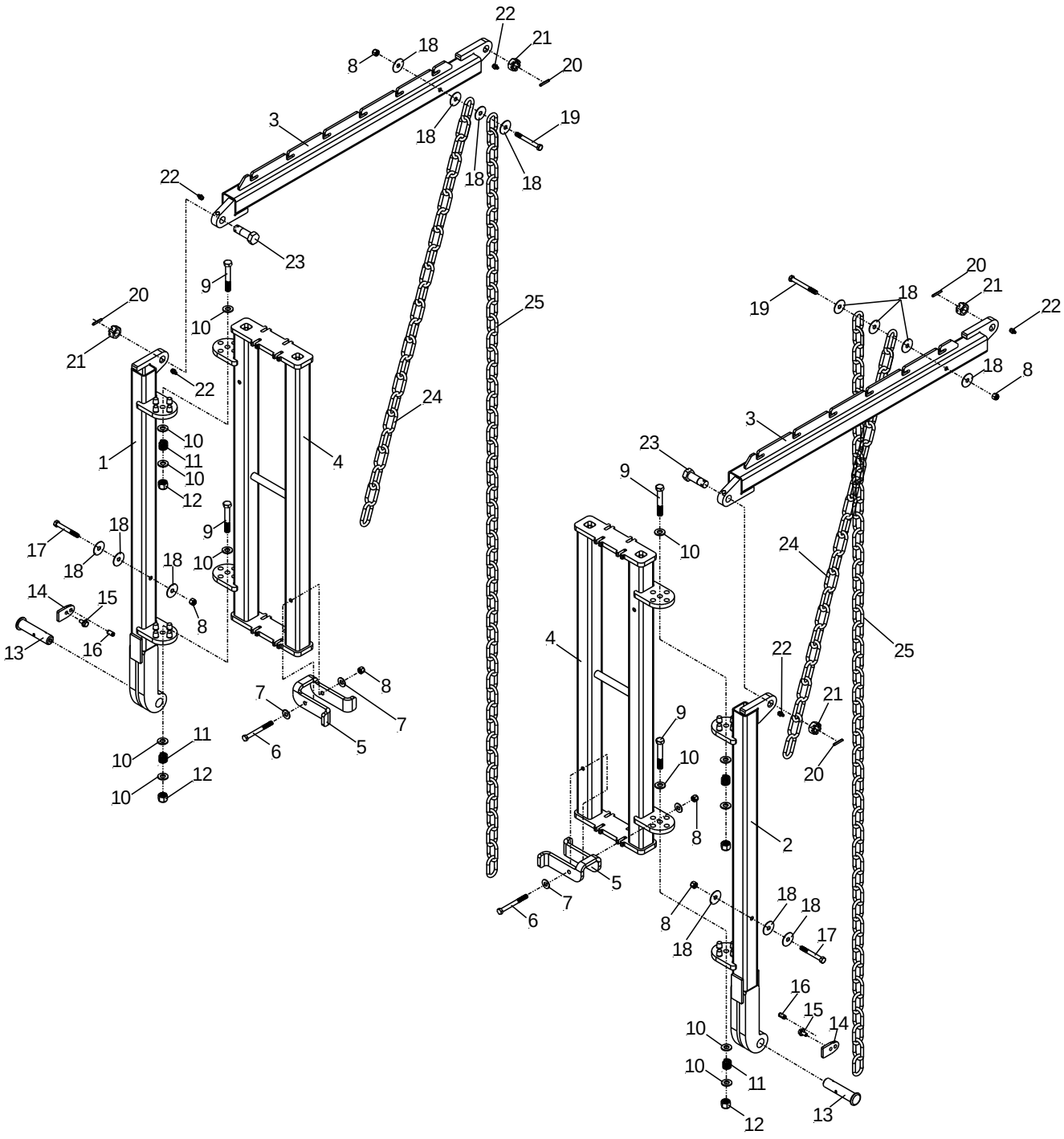
Steel Platform



Steel Slotted Platform

6 – CONSPICUITY TAPE			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Conspicuity Tape Kit, Universal, 2” H x 82” L	ML85-8821-001	2

7 Platform Railing



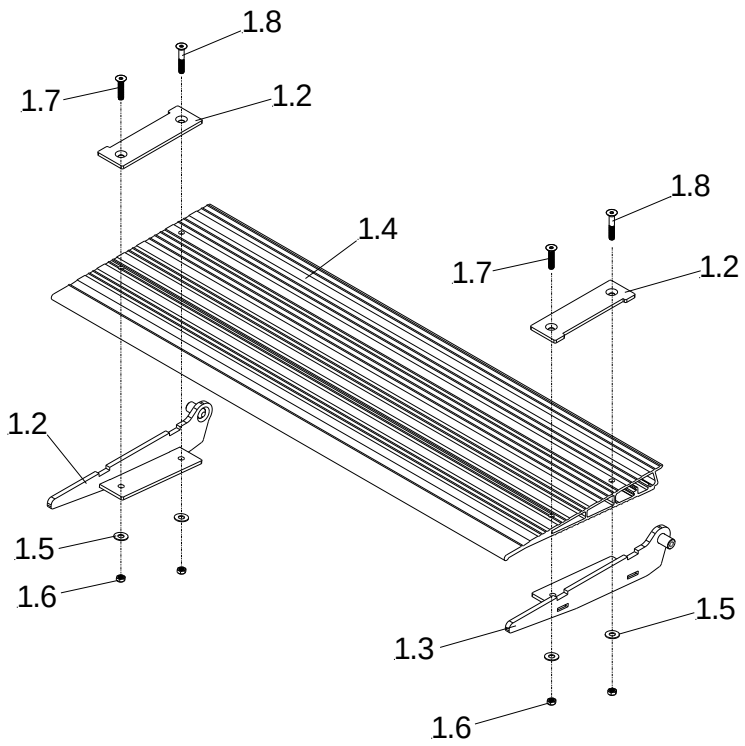
Palfinger Liftgates, LLC.
15939 Piuma Ave, Cerritos, CA 90703
Tel: (888) 774-5844, Fax: (562) 924-8318

Palfinger Liftgates, LLC.
572 Whitehead Road,Trenton, NJ 08619
Tel: (609) 587-4200, Fax: (609) 587-4201

7 – PLATFORM RAILING			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Railing Post Assembly, Left Side	24-1113-100	1
2	Railing Post Assembly, Right Side	24-1113-110	1
3	Top Railing Arm Assembly, Left/Right	24-1113-120	2
4	Railing Swing Door Assembly, Left/Right	24-1113-130	2
5	Latch, Ramp	24-1113-132	2
6	Hex Head Cap Screw, 3/8-16x3.75", Gr.5, Zinc	ES3500	2
7	Washer, Flat,3/8", USS, Zinc	EK3216	4
8	Nut, Nylock, 3/8-16, Gr.2, Zinc	EM-695	22
9	Hex Head Cap Screw, 1/2-13x3.25", Gr.5, Zinc	ES3499	4
10	Washer, Flat,1/2", SAE	EK2796	12
11	Spring, Door Lock	24-1113-141	4
12	Nut, Nylock, 1/2"-13	EM-707	2
13	Pin, Platform Hinge	45-1111-111	2
14	Key Plate, Hinge Pin	45-1111-112	2
15	Bolt,Flanged, M8x1.25x16mm	ES1451	2
16	Pin,Spring, 3/8x0.75", Slotted, Zinc	EQ1632	2
17	Hex Head Cap Screw, 3/8-16x3",Gr.2, Zinc	ES3445	2
18	Washer, 3/8,1.5" OD Gr.2	EK3210	14
19	Hex Head Cap Screw, 3/8-16x3.5", Gr.5, Zinc	ES3501	2
20	Pin,Spring, 3/16x1.25", Slotted,Stainless	EQ1633	4
21	Nut,Castle, 3/4-10, Gr.5, Steel	EM-723	4
22	Grease Fitting, M10x1mm	EA-005	6
23	Pin, Railing Hinge	24-1113-001	2
24	Chain,1/4x46.5", 1300lb, Gr 30, Zinc	EZ6294	2
25	Chain,1/4x96", 1300lb, Gr 30, Zinc	EZ6293	2

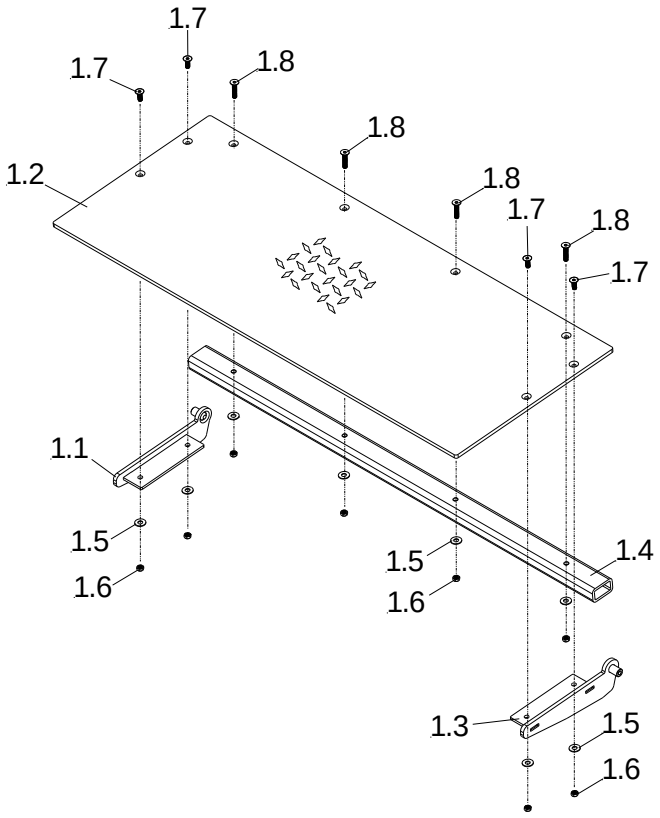
8 Ramps

8.1 Ramp 16”



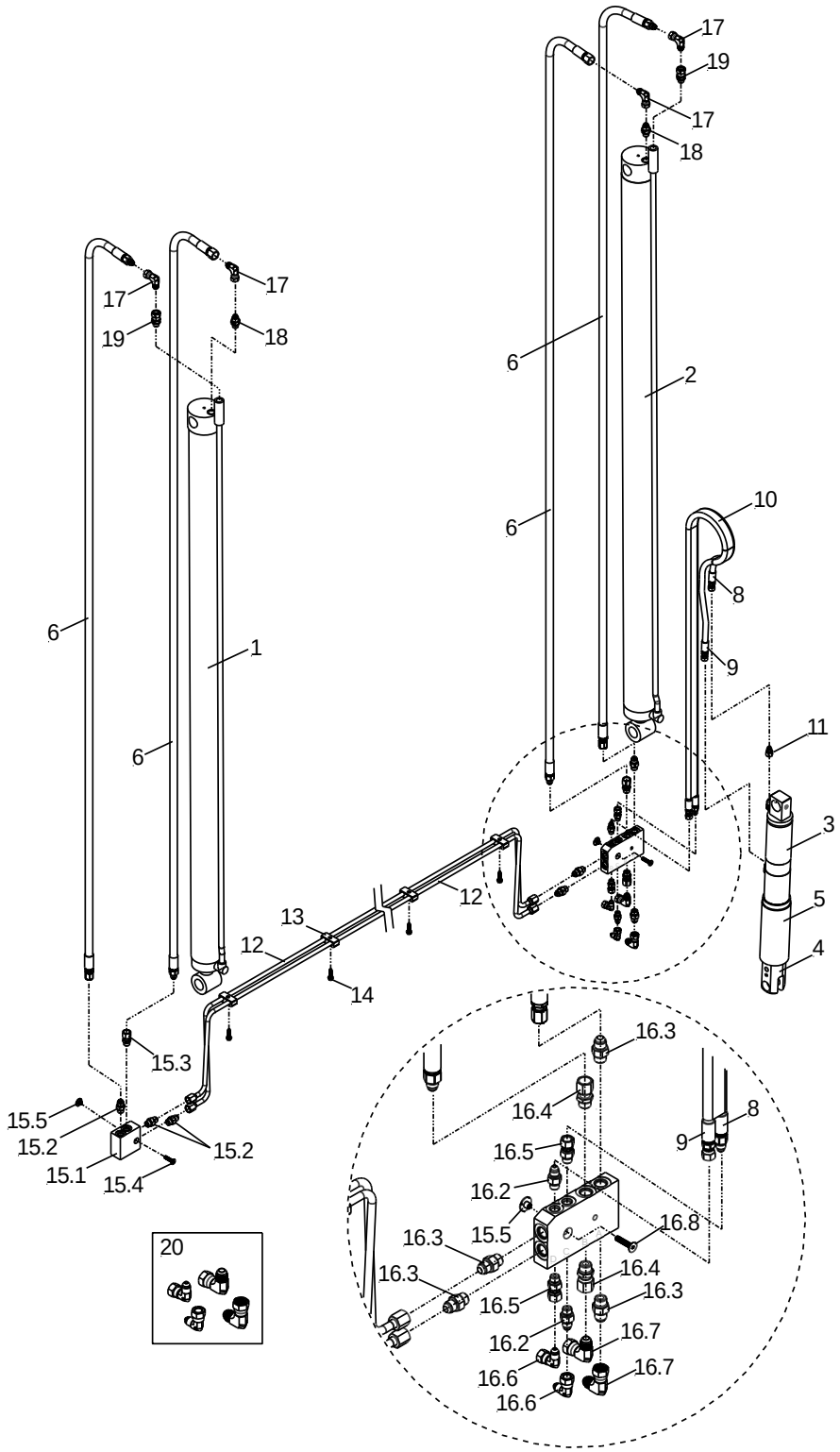
8.1 – 16” RAMPS			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Retention Ramp Kit, Aluminum, 16”x45”W, 96”W	23-1113-150	1
	Retention Ramp Kit, Aluminum, 16”x51”W, 102”W	23-1113-100	1
1.1	Side Bar Assembly, Left Side	23-1113-110	1
1.2	Ramp Bolt Plate	23-1113-114	2
1.3	Side Bar Assembly, Right Side	23-1113-120	1
1.4	Retention Ramp Extrusion, 45”	23-1113-151	1
	Retention Ramp Extrusion, 51”	23-1113-101	1
1.5	Washer, 3/8”, Stainless	EK3287	4
1.6	Nut, Nylock, 3/8-16, Stainless	EM 694	4
1.7	Flat Head Cap Socket Cap Screw, 3/8-16 x 1.75", Stainless	ES3583	2
1.8	Flat Head Cap Socket Cap Screw, 3/8-16 x 2.25", Stainless	ES3584	2

8.2 Ramp- 20”



8.2 – 20” RAMPS			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Ramp Kit, Aluminum, 20”x45”, 96”W	23-1114-200	1
	Ramp Kit, Aluminum, 20”x51”, 102”W	23-1114-100	1
1.1	Side Bar Assembly, Left Side	23-1114-110	1
1.2	Ramp Plate, Aluminum, Diamond Plate	23-1114-114	1
	Ramp Plate, Aluminum, Diamond Plate	23-1114-214	1
1.3	Side Bar Assembly, Right Side	23-1114-120	1
1.4	HD Ramp Stiffener	23-1115-300	1
1.5	Washer, Flat, 3/8" USS, Zinc	EK3216	8
1.6	Nut, Nylock, 3/8-16, Half Height	EM-709	8
1.7	Flat Head Socket Cap Screw, 3/8-16 x 1.00", Gr.5, Zinc	ES3452	4
1.8	Flat Head Socket Cap Screw, 3/8-16 x 1.75", Zinc	ES3734	4

9 Cylinders

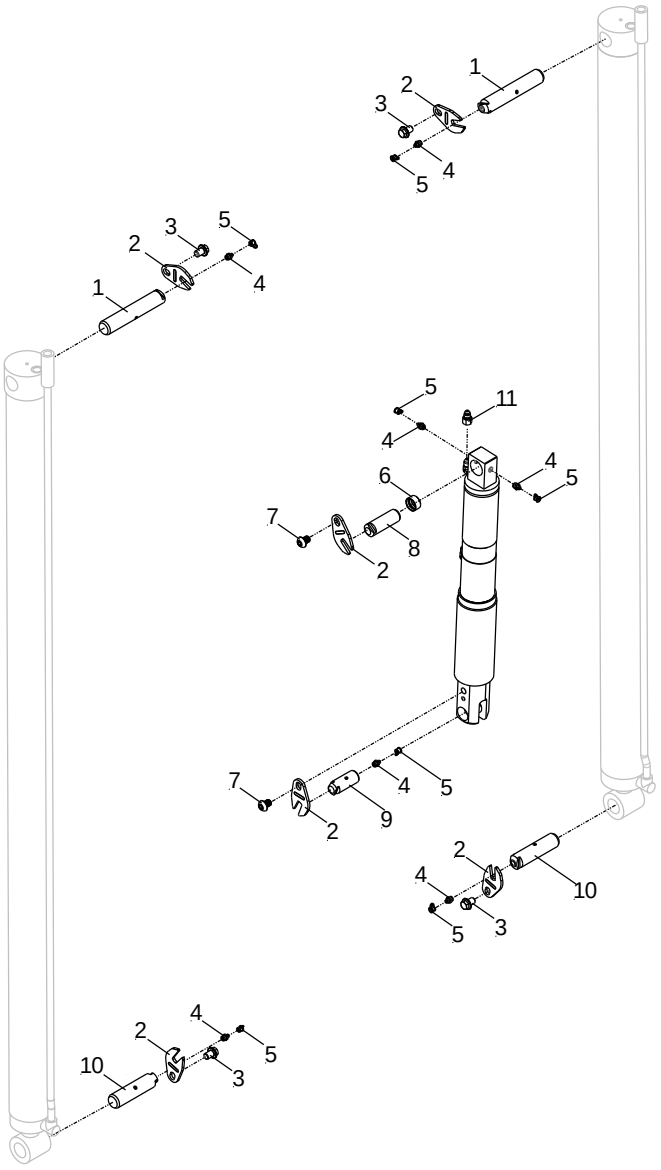


Palfinger Liftgates, LLC.
15939 Piuma Ave, Cerritos, CA 90703
Tel: (888) 774-5844, Fax: (562) 924-8318

Palfinger Liftgates, LLC.
572 Whitehead Road,Trenton, NJ 08619
Tel: (609) 587-4200, Fax: (609) 587-4201

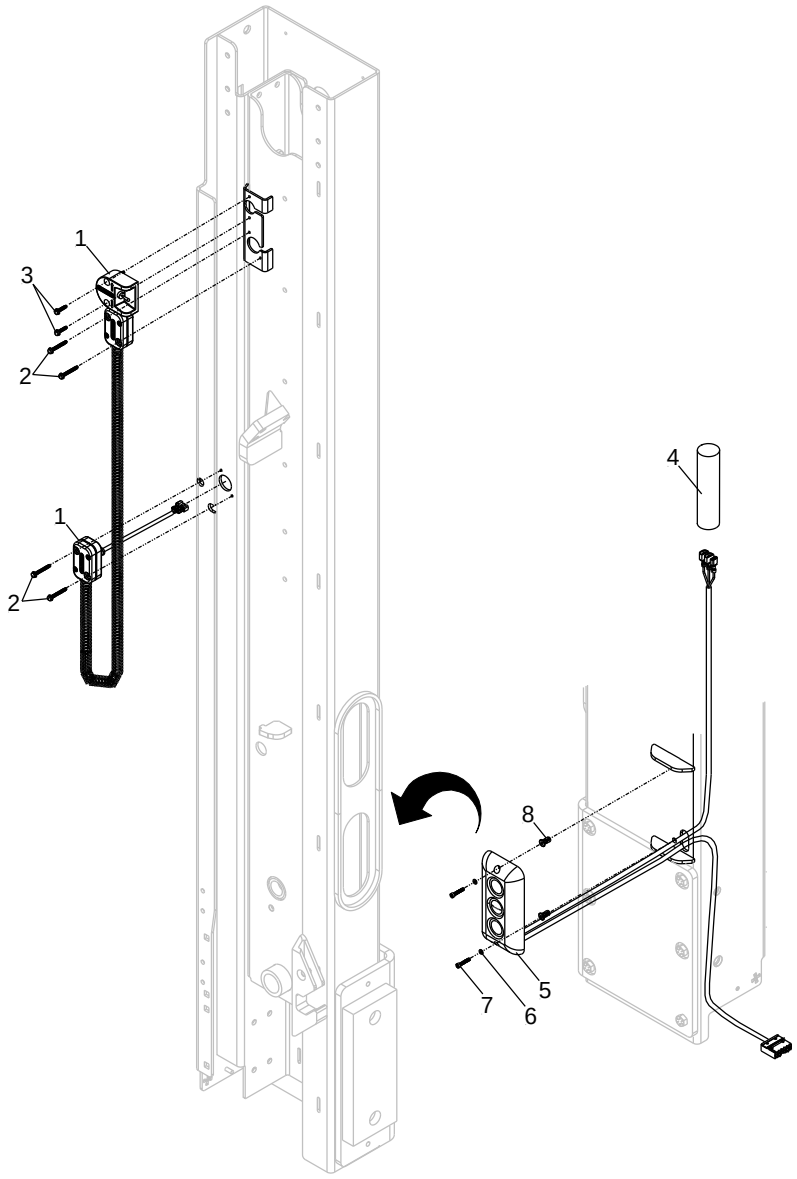
9 - CYLINDERS				
NO.	**DESCRIPTION**	**PART NO.**		**QTY.**
		PTV 35	**PTV 44**	
1	Lift Cylinder, Left Side, Small, ø55mm ID, 1450mm	--	--	1
	Lift Cylinder, Left Side, Medium, ø63mm ID, 1450mm	P-2014599	P-2014599	1
	Lift Cylinder, Left Side, Large, ø70mm ID, 1450mm	--	--	1
2	Lift Cylinder, Right Side, Small, ø55mm ID, 1450mm	P-2020887	P-2020887	1
	Lift Cylinder, Right Side, Medium ø63mm ID, 1450mm	--	--	1
	Lift Cylinder, Right Side, Large, ø70mm ID, 1450mm	--	--	1
3	Open & Close Cylinder, w/Adjustable Head	P-2022188	P-2022188	1
4	Open & Close Cylinder Adjustable Head	P-2014916	P-2014916	1
5	Open & Close Cylinder Bellow	60-1120-005	60-1120-005	1
6	Hydraulic Hose, 3/8", JIC Male/JIC Female, 90" L	ML80-1118-040	ML80-1118-040	1
8	Hydr. Hose, Open & Close, ¼, M/F, 48" L, (Port C)	ML80-1119-101	ML80-1119-101	1
9	Hydr. Hose, Open & Close, ¼", F/F, 57" L, (Port D)	ML80-1119-102	ML80-1119-102	1
10	Cover, Open & Close Hoses, (Ports: "C"& "D")	ML80-1119-103	ML80-1119-103	1
11	Restrictor, 0.022" Orif, ¼"JIC	EA6552	EA6552	1
12	Hydraulic Hard Line, 102"W	80-1115-004	80-1115-004	1
	Hydraulic Hard Line, 102"W, Above Floor	ML80-1120-020	ML80-1120-020	1
	Hydraulic Hard Line, 96" W	ML80-1120-010	ML80-1120-010	1
	Hydraulic Hard Line, 96" W, Above Floor	ML80-1120-030	ML80-1120-030	1
13	Clamp, Double-Line, 3/8" ID	EQ1752	EQ1752	4
14	Hex Head Cap Screw, ¼"-20 x 1", Thread Rolling, Zinc	ES4278	ES4278	4
15	Hydraulic Manifold Block Kit, Left Side Column	ML80-1118-010	ML80-1118-010	1
15.1	Hydraulic Manifold Block, Left Side	ML80-1118-011	ML80-1118-011	1
15.2	Adapter, 3/8" M JIC-3/8 SAE ORB, Parker 6 F5OX-S	HV 762	HV 762	3
15.3	Adapter, 3/8" F JIC-3/8 M SAE ORB, Parker 6 F65OX-S	HV 763	HV 763	1
15.4	Flat Head Cap Screw, ¼"-20 x 1 1/2", 316 Stainless Steel	ES4282	ES4282	1
15.5	Tee Nut, ¼"-20 w/Prongs, 316 Stainless Steel	EM 930	EM 930	1
16	Hydraulic Manifold Block Kit, Right Side Column	ML80-1118-000	ML80-1118-000	1
16.1	Hydraulic Manifold Block, Right Side	ML80-1118-001	ML80-1118-001	1
16.2	¼" M JIC-1/4" M SAE ORB (Port C)	HV 764	HV 764	2
16.3	3/8" M JIC-3/8" SAE ORB (Port A)	HV 826	HV 826	4
16.4	3/8" F JIC-3/8" M SAE ORB (Port B)	HV 829	HV 829	2
16.5	¼" F JIC-1/4" M SAE ORB (Port D)	HV 765	HV 765	2
16.6	Elbow Fitting, 90°, ¼", JIC Female/Male	EA6033	EA6033	2
16.7	Elbow Fitting, 90°, 3/8" JIC Female/Male	EA6028	EA6028	2
16.8	Flat Head Cap Screw, ¼"-20 x 1-1/8", 316 Stainless Steel	ES4281	ES4281	1
17	Elbow 90; 3/8 JIC Female	EA6028	EA6028	6
18	Adapter, 1/4 BSPP Male - 3/8 JIC Male Flare	EA6020	EA6020	2
19	Adapter, 1/4 BSPP Male - 3/8 JIC Female Flare Swivel	EA6021	EA6021	2
20	Elbow Kit, Installation, ¼", 3/8"	ML80-1121-100	ML80-1121-100	1

10 Pins & Bushings



10 – PINS & BUSHINGS			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Pin, Ø28mmx153mm [1.1” x 6.0”], Grease Zerk	2048626	2
2	Pin Plate, Small	2028340	6
3	Bolt, M12x16	2039050	4
4	Grease Fitting, M10x1x15.3mm	EA-005	7
5	Cap, Plastic, Red	P-1191680	7
6	Bushing, 25mmx14mm, Bronze	ELG1034	1
7	Button Head Cap Screw, M12-1.75x16mm, Cl. 10.9, Zinc	ES4159	2
8	Pin, Ø25mmx75mm [0.9” x 2.9”], (No Grease Zerk)	2036456	1
9	Pin, Ø25mmx62mm [0.9” x 2.4”], Grease Zerk	2048720	1
10	Pin, Ø28mmx110mm [1.1” x 4.3”], Grease Zerk	2049465	2
11	Restrictor, 0.022 Orif, ¼ JIC	EA6552	1

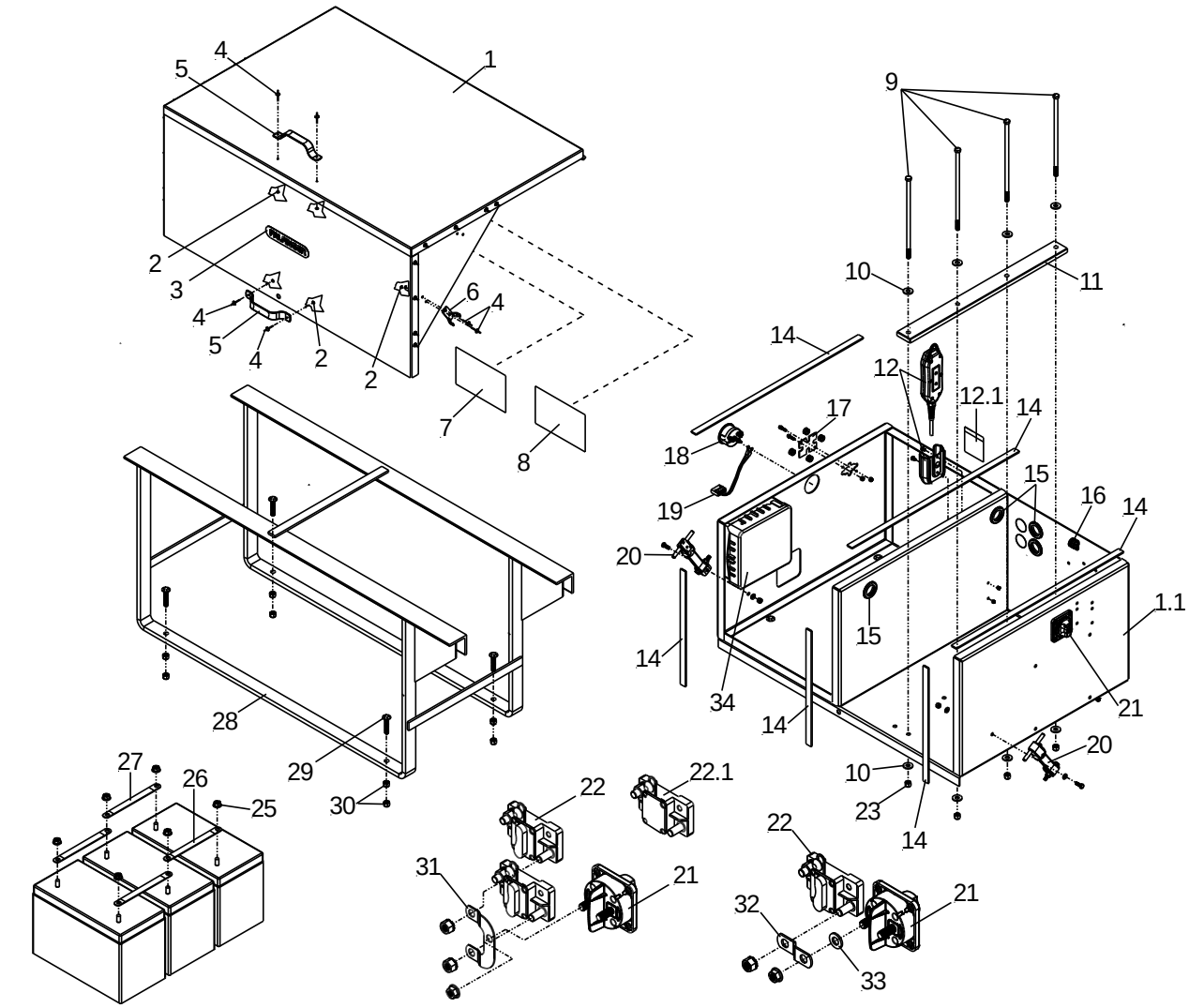
11 Control Switches

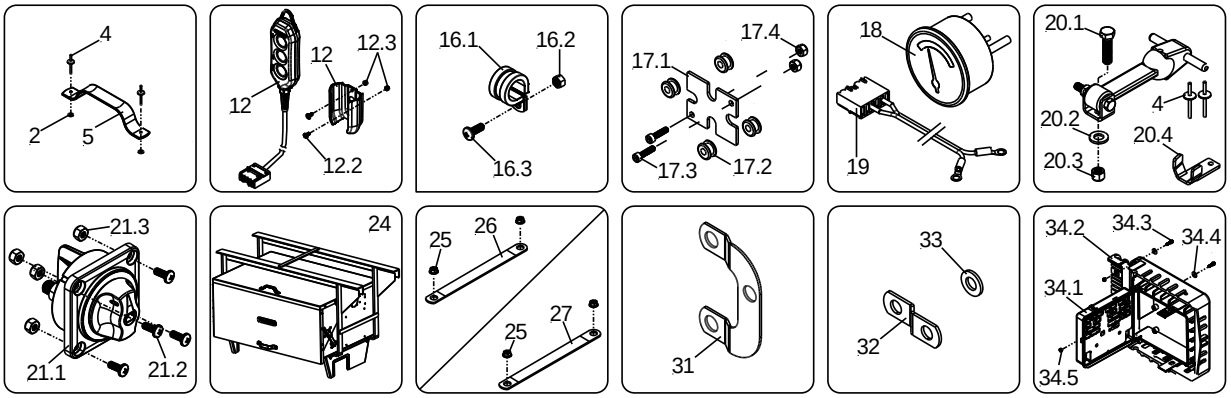


11 – CONTROL SWITCHES			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Harness, Assembly, Toggle Switch	ML70-1120-104	1
2	Flanged Hex Head Screw, #10-24 X 1.50”, Zinc	ES4264	4
3	Flanged Hex Head Screw, #10-24 X 3/4”, Zinc	ES4374	2
4	Heat Shrink, ø1.00” X 2.50”, 2:1 Ratio	EZ8525	1
5	Switch Assembly, 3-Button, Column Mount	P-2020653	1
6	Washer, #10, ASME Narrow, Zinc	EK4051	2
7	Socket Head Cap Screw, #10-24 X 1.00”, Zinc	ES4285	2
8	Jack Nut, #10-24, 0.70” L, Steel, Zinc (Screwdriver-Installed)	EM 928	2

12 Battery Box

Palfinger Liftgates use galvanized, galvanealed, power coat, paint, zinc, and other finishes on different liftgate models. It is important to specify what type of finish is required for the ordered replacement parts.



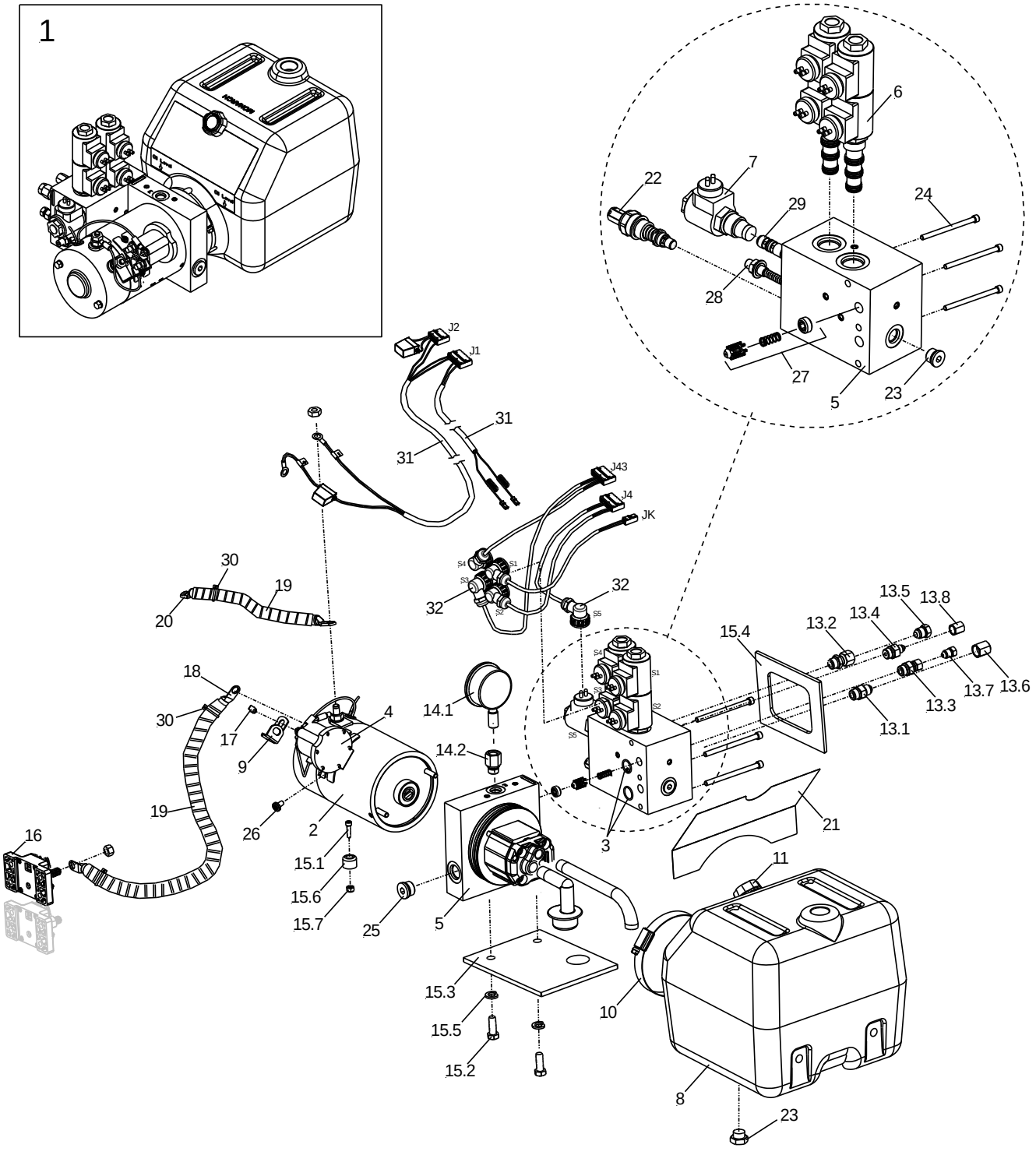


Palfinger Liftgates, LLC.
15939 Piuma Ave, Cerritos, CA 90703
Tel: (888) 774-5844, Fax: (562) 924-8318

Palfinger Liftgates, LLC.
572 Whitehead Road,Trenton, NJ 08619
Tel: (609) 587-4200, Fax: (609) 587-4201

12 – BATTERY BOX			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Battery/Pump Box Cover, Aluminum, 38”Wx18”Hx27”D	ML50-1121-000	1
1.1	Battery/Pump Box Base, Weldment, Steel, Black	50-1120-200+B	1
	Battery/Pump Box Base, Weldment, Steel, Galvanized	50-1120-200+G	1
2	Washer, Flat, 3/16” ID X ½” OD, Steel, Zinc	EK3422	6
3	Decal Palfinger	P-2038837	1
4	Rivet. 3/16x0.45”, Stainless Steel 18-8	EK3207	8
5	Grab Handle, 5.75” Hole Spacing	99-8814-010	2
6	Hood Catch	99-8814-053	2
7	Decal, Fault Codes, M-Board, Premium	85-1117-000	1
8	Decal, Electrical Schematic, 8.80”x5.50”	85-1118-000	1
9	Hex Head Cap Screw, 3/8-16x10", Gr. 2, Steel, Zinc	ES4287	4
10	Washer, Flat, 3/8" USS, Zinc	EK3216	8
11	Battery Hold Down; Nylon 6, 3-Battery	60-7520-012	1
12	Hand Remote, w/Holster, J31	P-2053050	1
12.1	Hand Remote Decal	85-1117-003	1
12.2	Screw, Pan, M5-0.8 X 10mm	ES3581	2
12.3	Nut, Nylock, M5-0.8 Zinc	EM 736	2
14	Rubber Seal Strip, ¾”	99-8712-098	6
15	Grommet, Push-In, Flexible Rubber, 1-1/4” ID, 1-7/8” OD	EK3340	4
16.1	Clamp, Steel Cushion, 5/8"	EQ1744	1
16.2	Machine Screw, #10-24 X 1/2", Zinc	ES3440	1
16.3	Nut, Nylock, #10-24, Gr.5, Zinc	EM-697	1
17.1	Side Cover	80-1113-521	1
17.2	Grommet, Push-In, Flexible Rubber, 1/4" ID, 5/8" OD	EK3339	4
17.3	Socket Head Cap Screw, #10-24 X 3/4" Zinc	ES3448	2
17.4	Nut, Nylock, 10-24, Gr.2, Zinc	EM 730	2
18	Voltmeter, 8-18V	70-1109-201	1
19	Voltmeter Harness, J3/J30 to Ring Terminal	KET5800	1
20	Hood Catch Kit	80-1113-533	2
20.1	Hex Head Cap Screw, 1/4-20x3/4", Gr.5, Zinc	ES3447	2
20.2	Washer, Flat, 1/4" USS, Zinc	EK3218	2
20.3	Nut, Nylock, 1/4-20, Gr.5, Zinc	EM 713	2
20.4	Hood Catch	99-8814-053	2
21.1	Switch, Master Disconnect, Poly	70-8020-001	1
21.2	Machine Screw, #10-24 X 1/2", Zinc	ES3440	4
21.3	Nut, Nylock, #10-24 Gr.5 Zinc	EM-697	4
22	Circuit Breaker, 175A, 3/8” Studs, Manual	70-8114-009	1
22.1	Circuit Breaker, 175A, 3/8” Studs, Automatic	70-8114-008	1
23	Nut, Nylock, 3/8-16, Gr.5, Zinc	EM-708	4
24	Battery/Pump Box Assembly, Box, Cover , Carrier	50-1120-020+B	1
	Battery/Pump Box Assembly, Box, Cover , Carrier	50-1120-020+G	1
25	Nut, Serrated, 3/8-16, Stainless Steel	EM 781	6
26	Bus Bar, 2-Battery, Red	KET06062A	2
27	Bus Bar, 2-Battery, Black	KET05916A	2
28	Battery Box Carrier, Assembly	80-1120-100	4
29	Carriage Bolt, 3/8-16x2.00”, Gr.8, Zinc	ES4305	4
30	Nut, Nylock, 3/8-16, Gr. 8	EM 698	4
31	Bus Bar, U-Shape, Copper	KET06870A	1
32	Bus Bar, 0.09”x0.75”x2.50”, Offset, Copper	KET06537A	1
33	Washer, Flat, M10, Copper	EZ4058	1
34.1	PC Board	P-2029092	1
34.2	PC Board Cover	P-2029906	1
34.3	Socket Head Cap Screw, M5-0.8x16mm	ES3699	2
34.4	Washer, M5, Oversized	EK 153	2
34.5	Hex Nut, M5, Din 934-8	EM 018	2

13 Pump and Motor

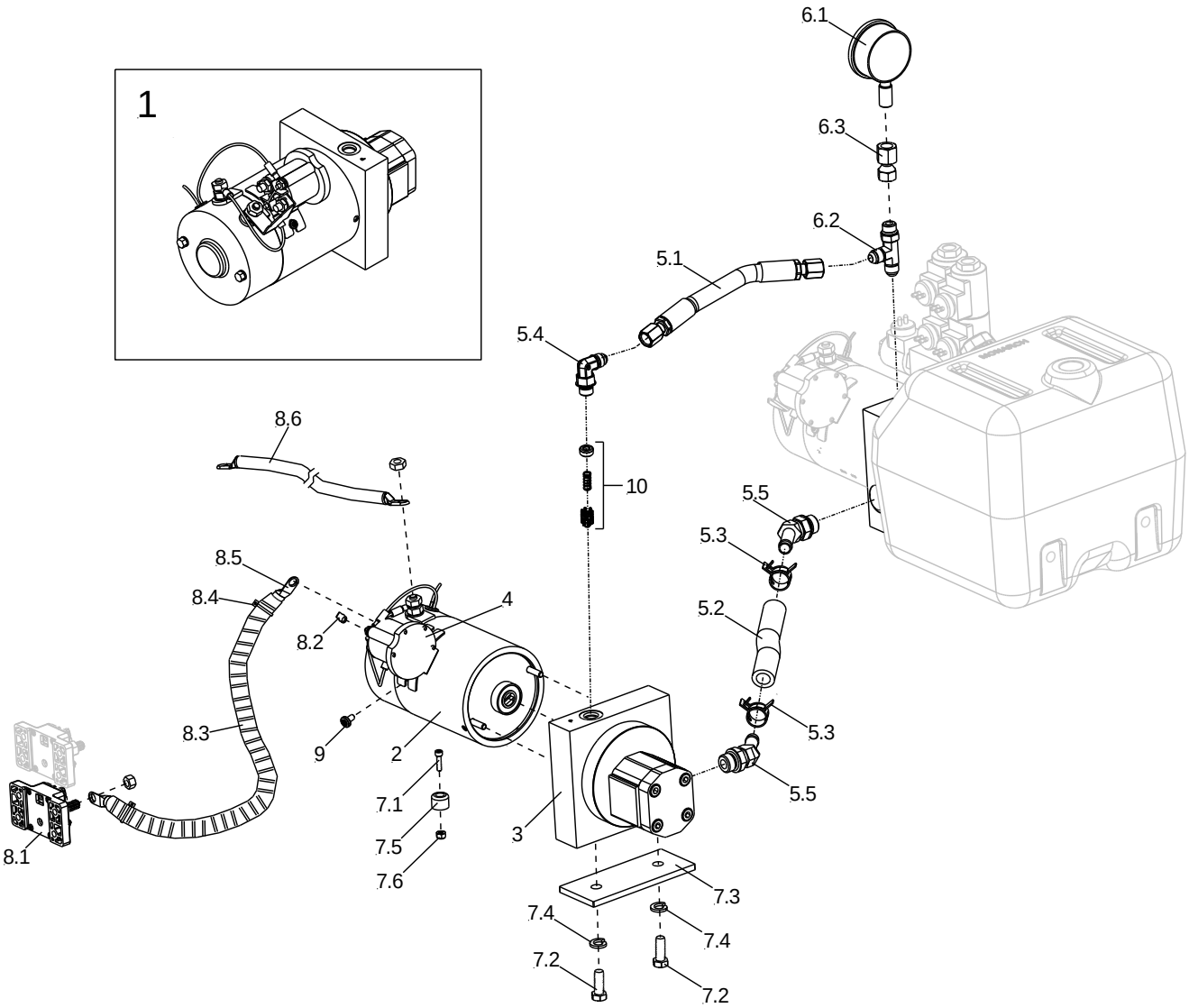


Palfinger Liftgates, LLC.
15939 Piuma Ave, Cerritos, CA 90703
Tel: (888) 774-5844, Fax: (562) 924-8318

Palfinger Liftgates, LLC.
572 Whitehead Road,Trenton, NJ 08619
Tel: (609) 587-4200, Fax: (609) 587-4201

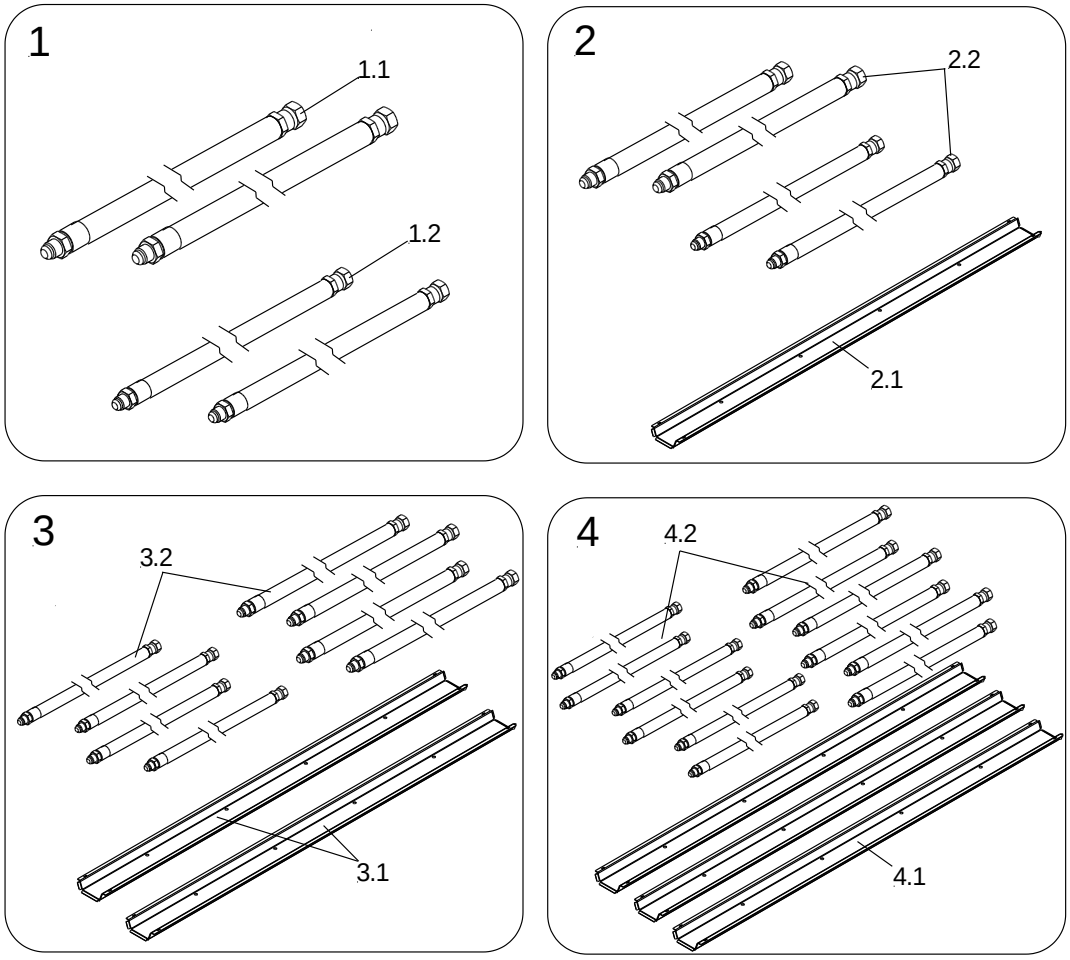
13 – PUMP AND MOTOR - PRIMARY			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Power Pack, Primary, Pump & Motor, 1.7CC, 12V	50-1117-006	1
	Power Pack, Primary, Pump & Motor, 1.7CC, 24V	50-1118-101	1
2	Motor, 12V	50-1118-007	1
	Motor, 24V	50-1118-008	1
3	O-Ring, 0.63”X 0.75”X 0.06”	ML50-1118-014	2
4	Motor Solenoid, 12V	50-1118-009	1
	Motor Solenoid, 24V	50-1118-010	1
5	Pump, Incl. Coupler, Pipe, Filter	ML50-1118-012	1
6	Valve, Release, Double Lock, 12V	P-2021832A	2
7	Valve, Release, Single Lock, 12V	P-67282345	1
8	Oil Reservoir	50-1118-002	1
9	Bracket, Copper Bridge, Solenoid	50-1118-001	1
10	Clamp For Oil Reservoir	50-0313-954	1
11	Breather Cap	50-0709-914	1
12	Pump Filter	50-0709-924	1
13	Fitting Kit, Primary Pump	80-1117-100	1
13.1	Adapter, Male 3/8” JIC - 3/8” ORB	HV826	1
13.2	Adpater, Female 3/8” JIC - 3/8 ORB	HV829	1
13.3	Adpater, Female ¼” JIC - 3/8 ORB	HV830	1
13.4	Adpater, Male ¼” JIC - 3/8 ORB	HV831	1
13.5	Plug, 3/8” JIC Male	EA6022	1
13.6	Cap, 3/8” JIC Female	EA6023	1
13.7	Plug, ¼” JIC Male	EA6024	1
13.8	Cap, ¼” JIC Female	EA6025	1
14	Gauge Kit, Primary Pump	80-1117-101	1
14.1	Pressure Gauge, 5000 PSI,1/4" NPT	OS3121327	1
14.2	Adapter, 3/8” ORB - ¼”-18 NPT	HV 836	1
15	Hardware Kit, Primary Pump	99-1117-000	1
15.1	Socket Head Cap Screw, 10-24 X 3/4", Zinc	ES3448	1
15.2	Hex Head Cap Screw, 3/8-16 X 1" ,Gr.5, Zinc	ES3446	2
15.3	Rubber Pad, Primary Pump	50-1120-003	1
15.4	Gasket	50-1120-004	1
15.5	Washer, Split Lock, 3/8"	EK3238	2
15.6	Snubber, ¾”OD X 3/16”ID X 9/16”H	EK3698	1
15.7	Nut, Nylock, 10-24, Gr.2, Zinc	EM730	1
16	Circuit Breaker, Manual Reset, 3/8” Lugs, 175A	70-8114-009	1
17	Terminal, #10 Round Tongue, Adapter	1474387	1
18	Cable, 2 GA, 42" L, 3/8" Lugs, Red	KET06881A	1
19	Split Loom, ø1/2" X 36"	EZ8375	1
20	Cable, 2 GA, 35" L, 3/8" Lugs, Black	KET05921A	1
21	Decal, Pump Oil Level	85-1117-002	1
22	Valve, Relief, Max, HDM 10	50-0313-953	1
23	Plug, SAE, 9/16-18, Hex Socket	50-1118-003	2
24	Socket Head Cap Screw, ¼-20x3.50”, Zinc	ES4086	3
25	Plug, SAE, ¾”-16, Hex Socket	50-1118-004	1
26	Pan Head Screw, #10-32x0.312", Torx Drive	ES4080	2
27	Valve, Check, Primary/Secondary Pump	50-1118-005	1
28	Valve, Assembly, 1001 PSI & Up	50-1118-006	1
29	Valve, Check, Pilot OP, Cart, Zero	ML50-1118-011	1
30	Zip Tie, 175mm x 4mm, [6.8” X 0.157”]	EZ6687	1
31	Harness, Power, Control Board	P-2053011	1
32	Harness, Solenoid Valves	P-2020041	5

14 Pump and Motor – Secondary Pump



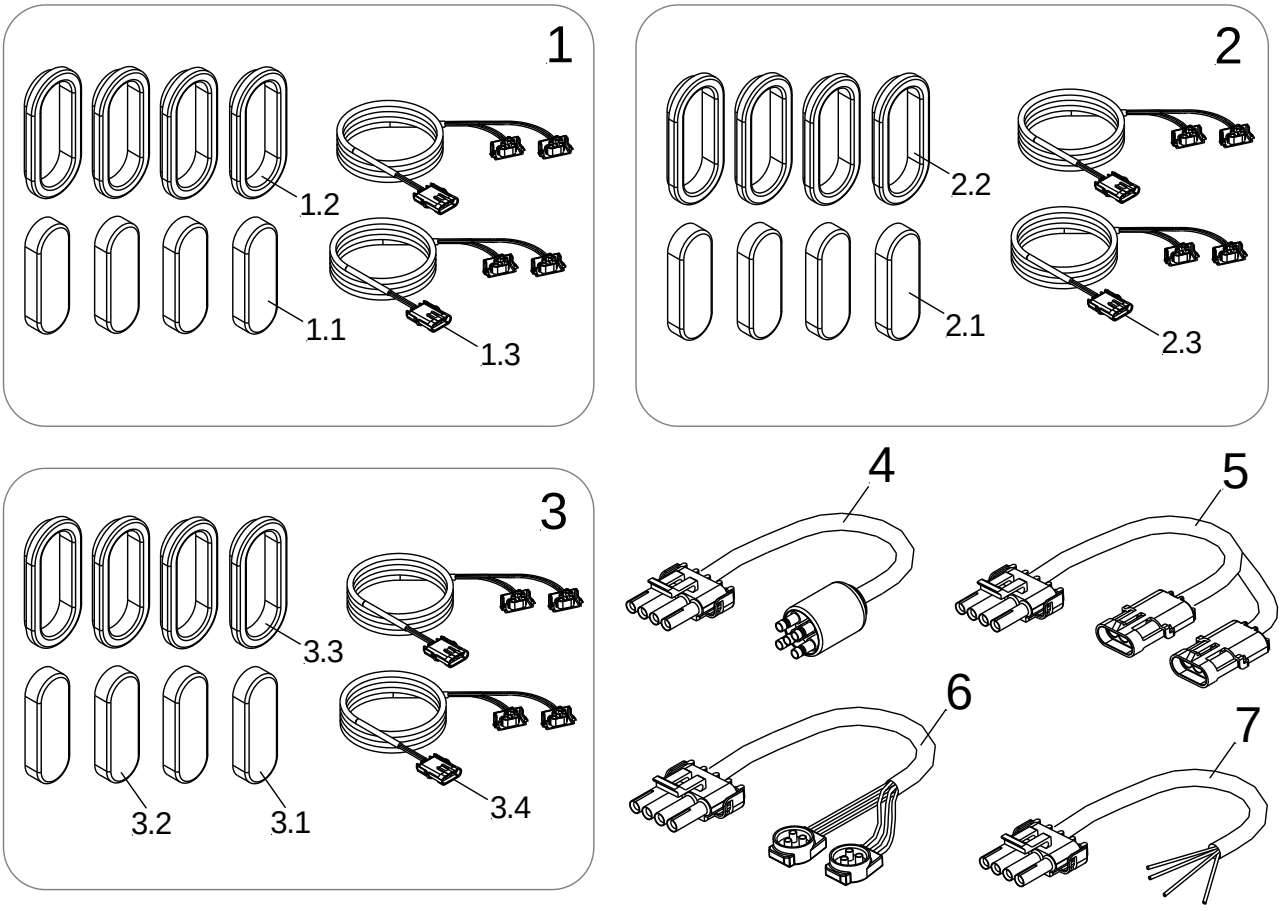
14 – PUMP AND MOTOR – SECONDARY			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Power Pack, Secondary- Pump and Motor, 1.7CC, 12V	50-1117-002	1
	Power Pack, Secondary- Pump and Motor, 1.7CC, 24V	50-1118-103	1
2	Motor, 12V	50-1118-007	1
	Motor, 24V	50-1118-008	1
3	Pump Block Assembly, Secondary	ML50-118-013	1
4	Motor Solenoid, 12V	50-1118-009	1
	Motor Solenoid, 24V	50-1118-010	1
5	Hydraulic Kit, Secondary Pump	80-1117-200	1
5.1	Hose, Female 3/8 JIC X 7” L	EH14737	1
5.2	Hose, ½” ID X 5” L, Raw	EH14739	1
5.3	Hose Clamp, 3/4" OD, Spring-Band	EQ1708	2
5.4	Elbow, Male 3/8 JIC - 3/8 ORB	HV 832	1
5.5	Elbow, 45°, ½ ORB - ½ BARB	HV 833	2
6	Pressure Gauge Kit, Secondary Pump	80-1117-202	1
6.1	Pressure Gauge, 5000 PSI,1/4" NPT	OS3121327	1
6.2	Tee, Male 3/8 JIC - 3/8 ORB RUN	HV 827	1
6.3	Adapter, Female 3/8 JIC – Female 1/4-18 NPTF	HV 828	1
7.1	Socket Head Cap Screw, 10-24 X 3/4", Zinc	ES3448	1
7.2	Hex Head Cap Screw, 3/8-16 X 1" ,Gr.5, Zinc	ES3446	2
7.3	Rubber, 2.5” X 5.5” X 1/4”	50-1117-003	1
7.4	Washer; Splitlock, 3/8"	EK3238	2
7.5	Snubber, ¾”OD X 3/16”ID X 9/16”H	EK3698	1
7.6	Nut, Nylock, 10-24, Gr.2, Zinc	EM 730	1
8.1	Circuit Breaker, Manual Reset, 3/8” Lugs, 175A	70-8114-009	1
8.2	Terminal, #10 Round Tongue, Adapter	1474387	1
8.3	Split Loom; ø1"X36", Black	EZ8307	1
8.4	Zip Tie	EZ6561	1
8.5	Cable, 42", 3/8" Lugs, Red	KET06881A	1
8.6	Cable, 35", 3/8" Lugs, Black	KET05921A	1
9	Pan Head Screw, #10-32x0.312", Torx Drive	ES4080	2
10	Valve, Check, Primary/Secondary Pump	50-1118-005	1

15 Hydraulic Hose Kits



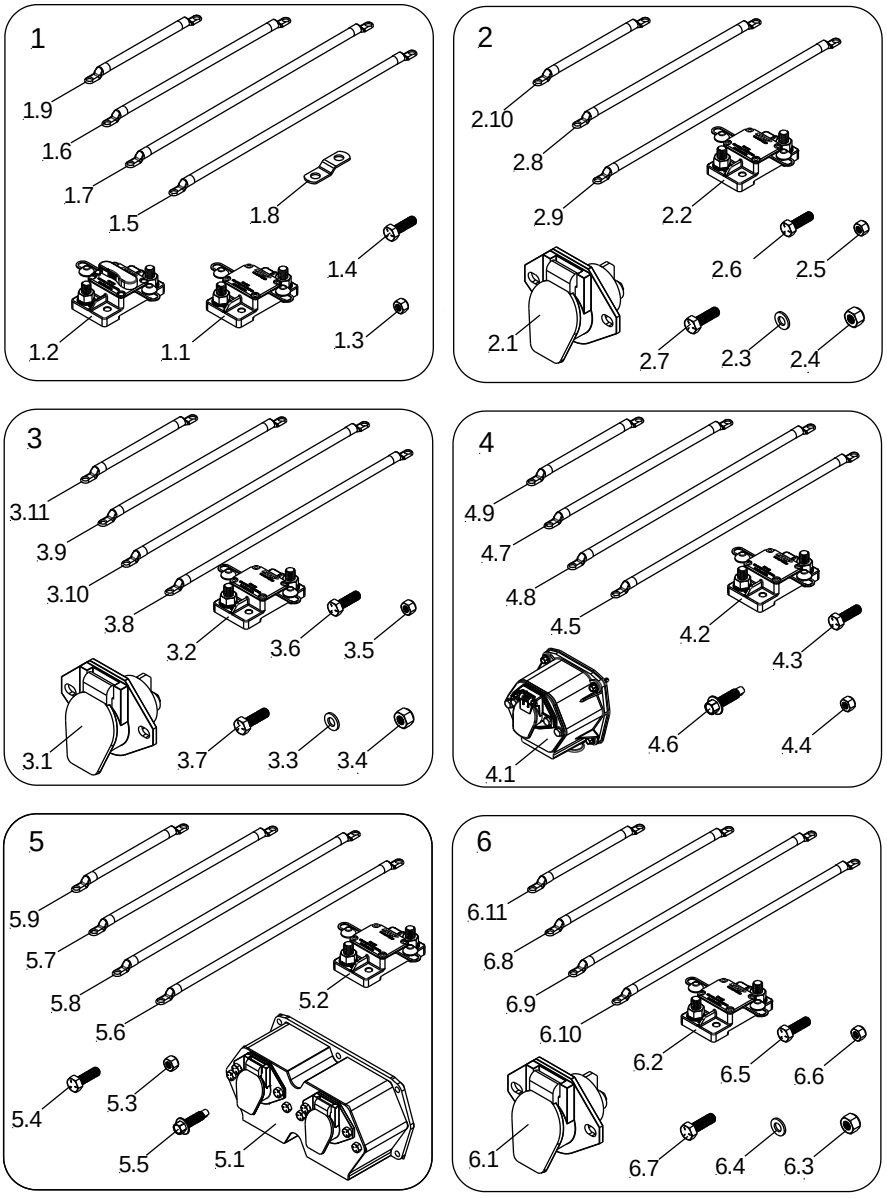
15 – HYDRAULIC HOSE KITS			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Hydraulic Hose Kit, 9 ft.	ML80-1120-016	1
1.1	Hose, Hydraulic, 108", 3/8" JIC Male - 3/8" JIC Female	ML80-1113-203	2
1.2	Hose, Hydraulic, 108", 1/4" JIC Male - 1/4" JIC Female	ML80-1120-015	2
2	Hydraulic Hose Kit, 9 ft., with Hat Section	ML80-1120-012	1
2.1	Hat Section, 85"L	ML60-1120-015	1
2.2	Hydraulic Hose Kit, 9 ft.	ML80-1120-016	2
3	Hydraulic Hose Kit, 18 ft., with Hat Sections	ML80-1120-013	1
3.1	Hat Section, 85"L	ML60-1120-015	2
3.2	Hydraulic Hose Kit, 9 ft.	ML80-1120-016	1
4	Hydraulic Hose Kit, 27 ft., with Hat Sections	ML80-1120-014	1
4.1	Hat Section, 85"L	ML60-1120-015	3
4.2	Hydraulic Hose Kit, 9 ft.	ML80-1120-016	3

16 Light Kits



16 - LIGHT KITS			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Light Kit; Red; Oval; PTV Optronics; With Harness	ML70-1121-020	1
1.1	Light-LED Red Tail/Stop	70-0714-002	4
1.2	Light Grommet	70-0714-003	4
1.3	Harness; Tail Light; PTV	ML70-1120-100	2
2	Light Kit; Red/Amber; Oval; PTV Optronics; With Harness	ML70-1121-021	1
2.1	Light-LED Red Tail/Stop	70-0714-002	1
2.2	Light Grommet	70-0714-003	4
2.3	Harness; Tail Light; PTV	ML70-1120-100	2
2.4	Light, Amber, Oval LED	70-1116-003	2
3	Light Kit; Red/White; Oval; PTV Optronics; With Harness	ML70-1121-022	1
3.1	Light-Led White-Back Up	70-0714-001	1
3.2	Light-LED Red Tail/Stop	70-0714-002	2
3.3	Light Grommet	70-0714-003	4
3.4	Harness; Tail Light; PTV	ML70-1120-100	2
4	Adapter; 5-Pin; PTV Light Harness; Utility	EEA16977	1
5	Adapter; 3-Pin; PTV Light Harness	EEA16980	1
6	Adapter; 3-Pin Plug Grote, PTV Light Harness	EEA16990	1
7	Adapter; Blunt Cut Pigtail	EEA16991	1

17 Trailer/Truck Charge Kits

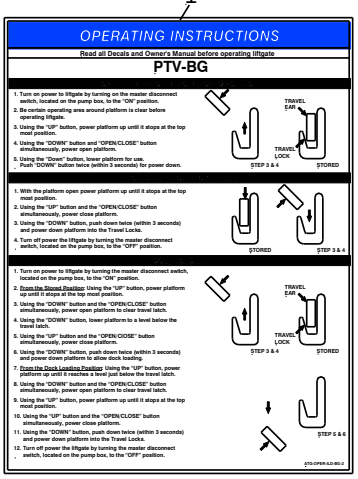


17 – TRAILER/TRUCK CHARGE KITS			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Truck Kit, 40 ft, Electrical	ML70-1121-010	1
1.1	Circuit Breaker, 175A, Auto	70-8114-008	1
1.2	Circuit Breaker, 175A, Manual	70-8114-009	1
1.3	Nut, Nylock,, 1/4-20 Zinc	EM 722	2
1.4	Hex Head Cap Screw,1/4-20x1.0" Gr.5, Zinc	ES3443	2
1.5	Wire, Battery cable 2Ga. Black	KET05701A	1
1.6	Cable; 74"; 3/8 Lugs; Black	KET05925A	1
1.7	Cable, 2GA; 480"; 3/8 Lugs; Red	KET06314A	1
1.8	Bus Bar; .09x.75x2.5	KET06537A	1
1.9	Cable; 11"; 3/8" Lugs; Red	KET06882A	1

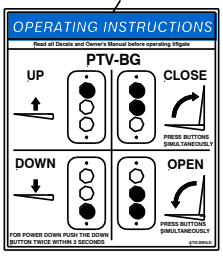
2	Trailer Kit, Single Pole, 40 ft, Electrical	ML70-1121-011	1
2.1	Socket; Single Pole	70-8015-019	1
2.2	Circuit Breaker, 175A, Auto	70-8114-008	1
2.3	Washer, Flat, 5/16" USS, Zinc	EK3217	4
2.4	Nut, Nylock, 5/16”-18	EM 710	2
2.5	Nut, Nylock ¼”-20 Zinc	EM 722	2
2.6	Hex Head Cap Screw,1/4”-20x1.00" Gr.5, Zinc	ES3443	2
2.7	Hex Head Cap Screw; 5/16”-18x1"	ES3724	2
2.8	Cable; 74";3/8” Lugs; Black	KET05925A	1
2.9	Cable 2GA; 480"; 3/8Lugs; Red	KET06314A	1
2.10	Cable; 11"; 3/8" Lugs; Red	KET06882A	1
3	Trailer Kit, Dual Pole, 40 ft, Electrical	ML70-1121-012	1
3.1	Socket; Dual Pole	70-8015-018	1
3.2	Circuit Breaker, 175A, Auto	70-8114-008	1
3.3	Washer, Flat, 5/16" USS, Zinc	EK3217	4
3.4	Nut, Nylock, 5/16”-18	EM 710	2
3.5	Nut, Nylock ¼”-20 Zinc	EM 722	2
3.6	Hex Head Cap Screw,1/4”-20x1.0" Gr.5,zinc	ES3443	2
3.7	Hex Head Cap Screw; 5/16”-18x1"	ES3724	2
3.8	Wire, Battery Cable, 2Ga. Black	KET05701A	1
3.9	Cable; 74"; 3/8” Lugs; Black	KET05925A	1
3.10	Cable, 2GA; 480";3/8 Lugs; Red	KET06314A	1
3.11	Cable; 11"; 3/8" Lugs; Red	KET06882A	1
4	Trailer Kit, Single Nosebox, 40 ft, Electrical	ML70-1121-013	1
4.1	Nosebox; Single; Dual Pole	70-8018-008	1
4.2	Circuit Breaker, 175A, Auto	70-8114-008	1
4.3	Hex Head Cap Screw,1/4-20x1.0" Gr.5, Zinc	ES3443	1
4.4	Nut, Nylock, 1/4-20, Zinc	EM 722	2
4.5	Wire, Battery Cable 2Ga., Black	KET05701A	1
4.6	Hex Head Cap Screw; Tapping, 5/16-18x1.25"	ES3733	4
4.7	Cable; 74"; 3/8 Lugs; Black	KET05925A	1
4.8	Cable, 2GA; 480"; 3/8 Lugs; Red	KET06314A	1
4.9	Cable; 11"; 3/8" Lugs; Red	KET06882A	1
5	Trailer Kit, Dual Nosebox, 40 ft, Electrical	ML70-1121-014	1
5.1	Dual Nosebox; Single/Dual	70-8015-020	1
5.2	Circuit Breaker, 175A, Auto	70-8114-008	1
5.3	Nut, Nylock, ¼”-20 Zinc	EM 722	2
5.4	Hex Head Cap Screw,1/4-20x1.0", Gr.5, Zinc	ES3443	2
5.5	Hex Head Cap Screw; Tapping, 5/16”-18x1.25"	ES3733	6
5.6	Wire, Battery Cable 2Ga. Black	KET05701A	1
5.7	Cable; 74"; 3/8 Lugs; Black	KET05925A	1
5.8	Cable, 2GA; 480"; 3/8 Lugs; Red	KET06314A	1
5.9	Cable; 11"; 3/8" Lugs ;Red	KET06882A	1
6	Trailer Kit, Dual Pole, 70 ft, Electrical	ML70-1121-015	1
6.1	Socket; Dual Pole	70-8015-018	1
6.2	Circuit Breaker, 175A, Auto	70-8114-008	1
6.3	Nut, Nylock, 5/16”-18	EM 710	2
6.4	Washer, Flat, 5/16”,USS, Zinc	EK3217	4
6.5	Hex Head Cap Screw,1/4-20x1.0" Gr.5, Zinc	ES3443	2
6.6	Nut, Nylock ¼”-20, Zinc	EM 722	2
6.7	Hex Head Cap Screw; 5/16-18x1"	ES3724	2
6.8	Cable; 74"; 3/8 Lugs; Black	KET05925A	1
6.9	Cable; 2Ga Black 3/8” Lug; 840"	KET06786A	1
6.10	Cable; 2Ga Red 3/8” Lug; 840"	KET06787A	1
6.11	Cable; 11"; 3/8" Lugs; Red	KET06882A	1

18 Decals

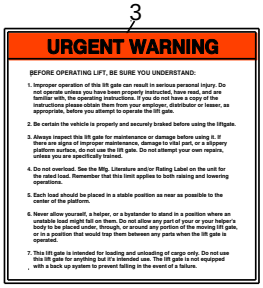
1



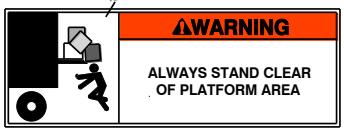
2



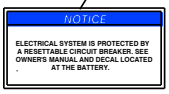
3



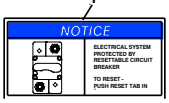
5



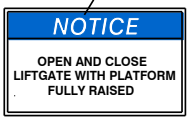
6



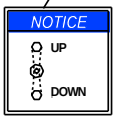
7



8



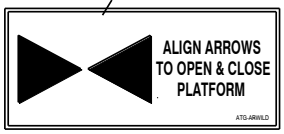
9



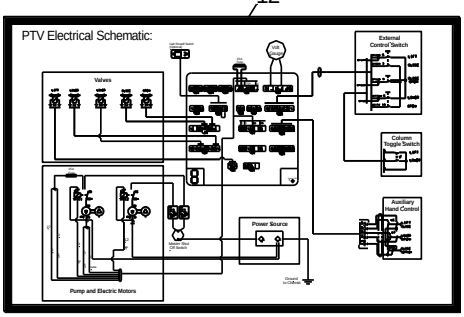
4

10

11



12



14

16

13

PTV/ILD + PREMIUM M-BOARD FAULT CODES

Code:	Description:	Reason:	Solution 1:	Solution 2:	Solution 3:	Solution 4:	Solution 5:
0	System OK / Control System: OFF	System OK / Control System: OFF	System OK / Control System: OFF	-	-	-	-
1	System OK / Control System: ON	System OK / Control System: ON	System OK / Control System: ON	-	-	-	-
2	Low Voltage	Voltage J1 Pin 2 too low	Check J-1 & J-2 power cable at PC board and battery for tight connection, oxidation and damage.	Check the battery condition / battery charged	Motor could have worn carbon brushes / motor could be bad	-	-
7	Short in Cab Switch / On-Off switch or Aux port	Power consumption J1 Pin 1 to high	Check J-1 & J-2 power cable at PC board and battery for tight connection, oxidation and damage.	-	-	-	-
8	General Short	General power consumption to high	Check J-1 & J-2 power cable at PC board and battery for tight connection, oxidation and damage.	Unplug wires one by one	Repair cables, connections, check for burnt or crushed wires	Short in motor solenoid	Replace motor solenoid
9	Defect in motor solenoid during lifting	Power consumption J1 Pin 3 to high	Check J-1 & J-2 power cable at PC board and battery for tight connection, oxidation and damage.	Check the battery condition / battery charged	Possible short in Thermo Switch inside motor Bypass and test, replace Thermo Switch	-	-
A	Fuse 15A damaged on power pack (J1, Pin 2)	Defective fuse J1 Pin 2	Check fuse at power pack	Check fuse holder Replace fuse with same amp fuse	-	-	-
b	Defective motor solenoid	Power consumption J1 Pin 3 to high	Check J-1 & J-2 power cable at PC board and battery for tight connection, oxidation and damage.	Check the battery condition / battery charged	-	Check ohm reading of the coils	Change coils or cables
C	During operation, an error on the motor solenoid	Power consumption J1 Pin 3 to high	Check J-1 & J-2 power cable at PC board and battery for tight connection, oxidation and damage.	Check the battery condition / battery charged	-	Check ohm reading of the coil motor solenoid	Change coils or cables
P	Error diagnostic mode active	Attached service plug	-	-	-	-	-

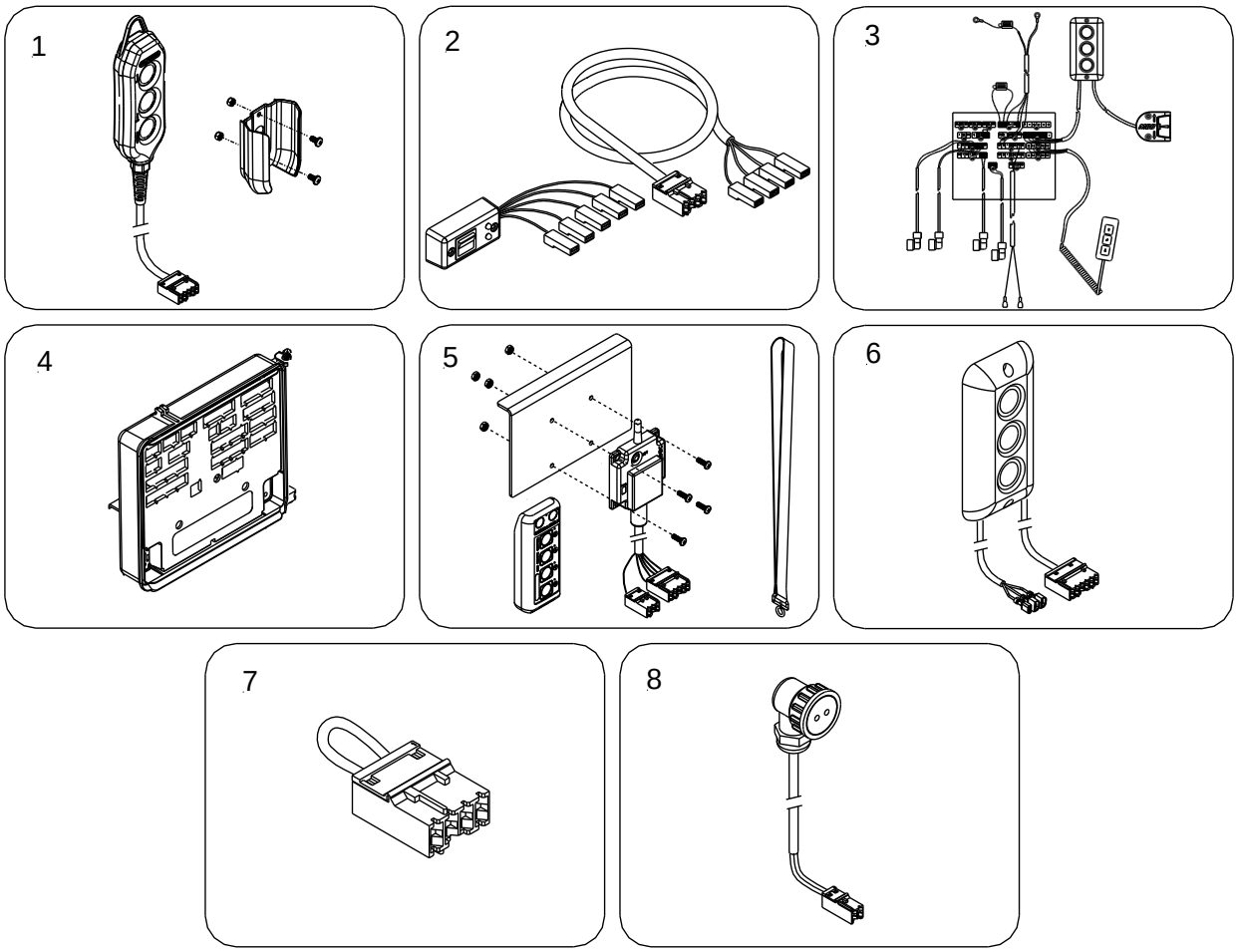
To Clear Code: Unplug J11 and plug back in.

15

18 - DECALS			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Operating Instructions-Bottle Gas	ML85-1121-006	1
2	Operational Instruction-Controls	ML85-1121-007	1
3	Urgent Warning Decal	ATG-URGWA	1
4	Warning- Liftgate Hazards	ATG-WLH	2
5	Warning- Stand Clear	ATG-PLAT	2
6	Electrical System	ATG-RESET	1
7	Circuit Breaker, Blue	ATG-BKR	1
8	Notice For Open And Close	ATG-OPENILD	1
9	Up/Down	ATG-UD	1
10	Liftgate Capacity	ATG-XXXX*	2
11	Platform Alignment Arrows	ATG-ARWILD	1
12	Electrical Schematic	ML85-1121-010	1
13	Decal, Fault Codes, M-Board	85-1117-000	1
14	3-Button Auxiliary Remote Decal	ML85-1117-003	1
15	Decal, Palfinger Logo, Horizontal (Battery Box Cover)	P-2038837	1
16	Decal, Palfinger Logo, Vertical (Column Mount)	OS1263362	2

***XXXX = LIFTGATE CAPACITY (LBS) [EXAMPLE PART NUMBER: ATG- 4400]**

19 Controls



19- CONTROLS			
NO.	**DESCRIPTION**	**PART NO.**	**QTY.**
1	Hand Remote, w/Holster, J31	P-2053050	1
2	Cab Shut Off Switch Kit (Optional)	70-1113-200	1
3	PC Board Kit, w/Harness, 3-Button Flush, 3-Button Coil, & Toggle	P-2032695	1
4	Control Board, M-Board, Premium	P-2029092	1
5	Kit, Wireless Remote, 4-Way Operation (Optional)	70-1115-000	1
6	Control, 3-Button Flush Mount, J30	P-2020653	1
7	Jumper, J11. (Contacts: 2&4)	P-2020042	1
8	Harness, Solenoid Valve, JK	P-2020041	1

Palfinger Liftgates, LLC.
15939 Piuma Ave, Cerritos, CA 90703
Tel: (888) 774-5844, Fax: (562) 924-8318

Palfinger Liftgates, LLC.
572 Whitehead Road,Trenton, NJ 08619
Tel: (609) 587-4200, Fax: (609) 587-4201