

Bennett Horizon 2 Series Electronic

with 708 Electronics

Parts Manual

Only Trained Personnel May Work on This Equipment

Includes Instructions For:

Self Contained

Remote

High Hose

Low Hose

Card Reader

Local Preset

Vapor Recovery

READ THIS BOOK

This book has important information for safe installation and operation of this equipment. Read and understand this book before applying power. Keep this book and tell all service personnel to read this book. If you do not follow the instructions, you can cause bodily injury, death or damage to the equipment.

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107042 Rev D 04/06

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Introduction & Instructions

This manual covers the Bennett 2400 or 2300 Model Series electronic dispenser M.P.D.

Determining the Model Number and the Dispenser Features

Determine the model number of the dispenser from the serial plate located on the front bottom rail. Understanding the features of the dispenser to be installed will be helpful in understanding the proper installation of the dispenser.

Refer to Installation Manual Horizon 2 (2300/2400) Series with 708 Electronics #105894

Placing an Order

To Place an Order for Parts

FAX your order to **1-231-799-6202**, or

Mail your Purchase Order to:

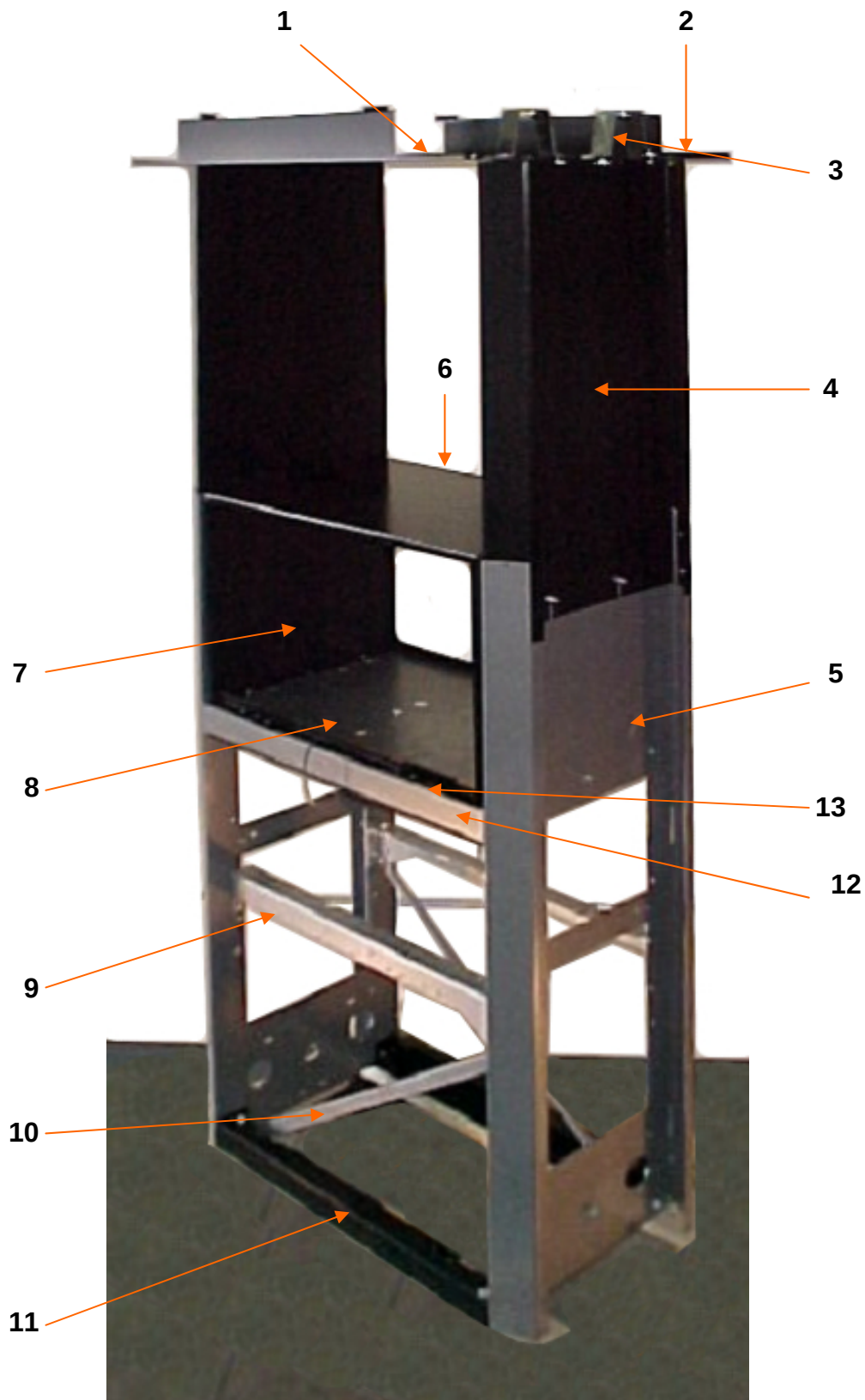
Bennett Pump Company
1218 E. Pontaluna Rd.
Spring Lake, MI 49456
Or CALL
1-800-235-7618 Option 3

All orders must include:

- The part number, description, and quantity required.
- The complete "Ship to" address
- Your company's name and address (if different from the shipping destination) for billing purposes

Note: many common fasteners can be purchased from a local hardware store

Inner Frame - All Models



Frame - 2400 Model
Remote & Self Contained

Inner Frame - All Models

Ref	Part No.	Description	Qty
1	107683	Cover Speaker 2300/2400	1
2	100018	Housing, Hose Outlet (W, Valence) - Painted Black (24xx)	1
	100299	Housing, Hose Outlet (W, Valence) - Painted Black (23xx)	1
3	N640601P01	Support, Pump Lift 2300/2400	4
4	100017	End Column, Upper - Painted Black 2300/2400	2
5	105895	End Column, Lower Horizon 708 Computer 2300/2400	2
6	100025	Cover, Electronics - Painted Black (24xx) High Hose	1
7	106053	Cover, Electronics - Painted Black (23xx) High Hose	1
8	100149	End Frame, ECD painted black	2
9	106092	Vapor Barrier, Remote 2 Side Blender Additional Flame Deck Numbers - (Call Order Entry)	1
10	100892	Rail, 2300 Meter	2
	100818	Rail, 2400 Meter	
11	100278	Bracing/Cross 2300/2400	2
12	101254	Rail, Base Painted Black (23xx)	2
13	106054	Holder AD Panel 2300 Horizon 708 Computer	2
	105906	Hinge 1.5 X 5.0 Black Finish (Not Shown)	4
	100342	HSG, Hose Outlet, No Valence, 23XX (Not Shown)	2
	103669	Manifold Assembly (Not Shown)	2
	A577401	Speaker (Not Shown)	1
	101912	Bracket, Speaker (Not Shown)	

Outer Frame - 2400 Models



Outer Frame 2400 Model
Remote and Self Contained

Ref	Part No.	Description	Qty
1	100596	Cover, Valence-Painted Black (2400)	1
	100593	Cover, Valence-Painted Black (2300)	1
2	106297	Panel End, High Hose (Stainless) Same for Right or Left	2
3		Hose - Not usually supplied by Bennett	
	100342	Hose Outlet, No Valence (Not Shown)	
	N898201	Vapor Recovery Outlet (Not Shown)	
4		Door Assembly, Electronics - Call Order Entry	2
5	105926	Nozzle Boot	
6		Nozzle - Not usually supplied by Bennett	
7		Lower Door Assembly - Call Order Entry	2
8	106503	Ad Panel (Blank) - Call Order Entry	
	106059	End Stops - Ad Panel , 2.88 x 3" Black	2
	105898	Rain Lip - 2400	2
	105906	Hinge 1.5 x 5" Black Finish	4
	A565901	Elbow, Male (For Vapor Recovery Outlet) (Not Shown)	

Ad Panels

Part No.	Description
109327	AD PANEL - SUPERTEST 12" REGULAR
109328	AD PANEL - SUPERTEST 12" PLUS
109329	AD PANEL - SUPERTEST 12" PREMIUM
109330	SUPERTEST WHITE BP0933 24X1 DOOR
109331	SUPERTEST WHITE BP0933 VALENCE
110282	Ad Panel Premium Diesel 8" BLK/GRN
110283	Ad Panel Blended Diesel 8" BLK/GRN
109045	Main Display GoMart Four Products ABCD/ACD
109046	GoMart Keypad ABCD
109047	Door Upper Screened 2400 GoMart Debit ABCD
109068	Door Screened 2400 ABCD No Preset No Printer
109069	Door Screened 2400 ABC No Preset No Printer
109335	Main Display GoMart Four Products ABCD/ABCD
109724	DECAL CONOCO LOWER DOOR 2300
109725	DECAL CONOCO LOWER DOOR 2400
109726	DECAL PHILLIPS 66 LOWER DOOR 2300/2400
109727	DECAL 76 LOWER DOOR 2300/2400
109728	LOWER DOOR 23X1 PTS/CG BLK/RED
109729	LOWER DOOR 23X2 PTS/CG BLK/RED
109732	LOWER DOOR 24X1 PTS/CG BLK/RED
109733	LOWER DOOR 24X2 PTS/CG BLK/RED
106514	PANEL AD CONOCO PHILLIPS REGULAR 8"
106515	PANEL AD CONOCO PHILLIPS REGULAR 12"
106516	PANEL AD CONOCO PHILLIPS PLUS 8"
106517	PANEL AD CONOCO PHILLIPS PLUS 12"
106518	PANEL AD CONOCO PHILLIPS PREMIUM 8"
106519	PANEL AD CONOCO PHILLIPS PREMIUM 12"
109736	PANEL AD CONOCO PHILLIPS DIESEL 8"
109737	PANEL AD CONOCO PHILLIPS DIESEL 12"
109739	PANEL AD GASOHOL 12"
109740	PANEL AD MOGAS 12"
110285	Lower Door 24X4 Green BP9726

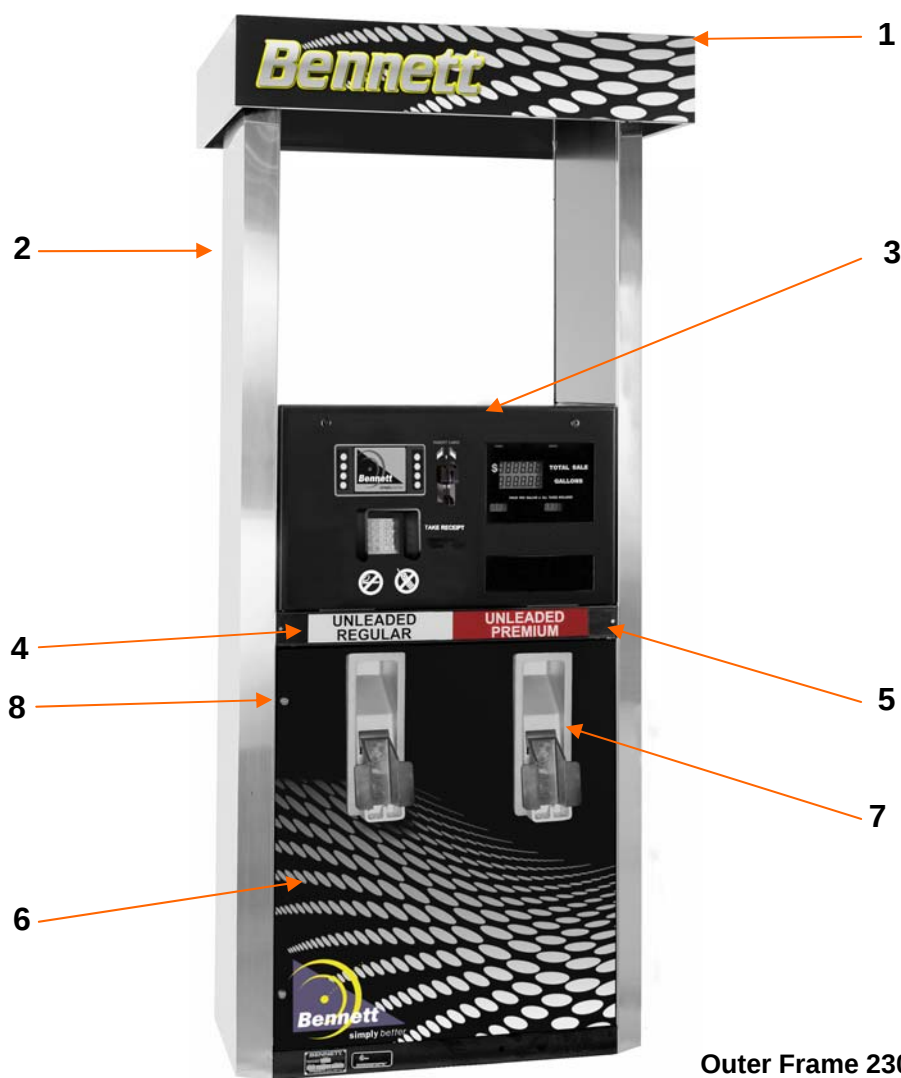
Valance

Part No.	Description
109338	Valance GoMart Round 2400 Position 1 and 2
109339	Valance GoMart Round 2400 Position 3 and 4
109340	Valance GoMart Round 2400 Position 5 and 6
109341	Valance GoMart Round 2400 Position 7 and 8
109342	Valance GoMart Round 2400 Position 9 and 10
109799	Valance GoMart 2400 pos 11 and 12
109800	Valance GoMart 2400 pos 13 and 14
109801	Valance GoMart 2400 pos 15 and 16
109663	VALANCE BRACKET
109664	VALANCE 2300 SERIES
109665	VALANCE 2400 SERIES
109680	VALANCE LEFT CONOCO PHILLIPS 2300
109681	VALANCE RIGHT CONOCO PHILLIPS 2300
109682	VALANCE LEFT CONOCO PHILLIPS 2400
109683	VALANCE RIGHT CONOCO PHILLIPS 2400
109713	DECAL CONOCO PHILLIPS VALANCE 8" X 1.5"
109714	DECAL CONOCO VALANCE 12" X 3.5"
109715	DECAL PHILLIPS VALANCE 7.5" X 7.25"
109716	DECAL 76 VALANCE 7.5" DIA
109695	VALANCE BOX 2300/2400 SERIES
109704	ROPE NYLON 1/8" X 126" SINGLE HOOK ASSM
109695	VALANCE BOX 2300/2400 SERIES
110385	VALANCE 23XX MURPHY OIL GREEN

End Panels

Part No.	Description
109857	PANEL END, HH, RED 708 HORIZON*OE TEXT*
106295	PANEL END, HH, WHITE 708 HORIZON*OE TEXT*
106296	PANEL END, HH, BLACK 708 HORIZON*OE TEXT*
106297	PANEL END, HH, STAINLESS STEEL 708 HORIZON*OE TEXT*
106298	PANEL END, HH, WHITE 708 TRUCK *OE TEXT*
106299	PANEL END, HH, BLACK 708 TRUCK *OE TEXT*
106300	PANEL END, HH, STAINLESS STEEL 708 TRUCK*OE TEXT*
110268	Door Upper 2400 Credit ABCD Call
110269	Door Upper 2400 Credit ABC Call
110270	Door Up 2400 Debit Call No Scr WHT

Outer Frame - 2300 Models



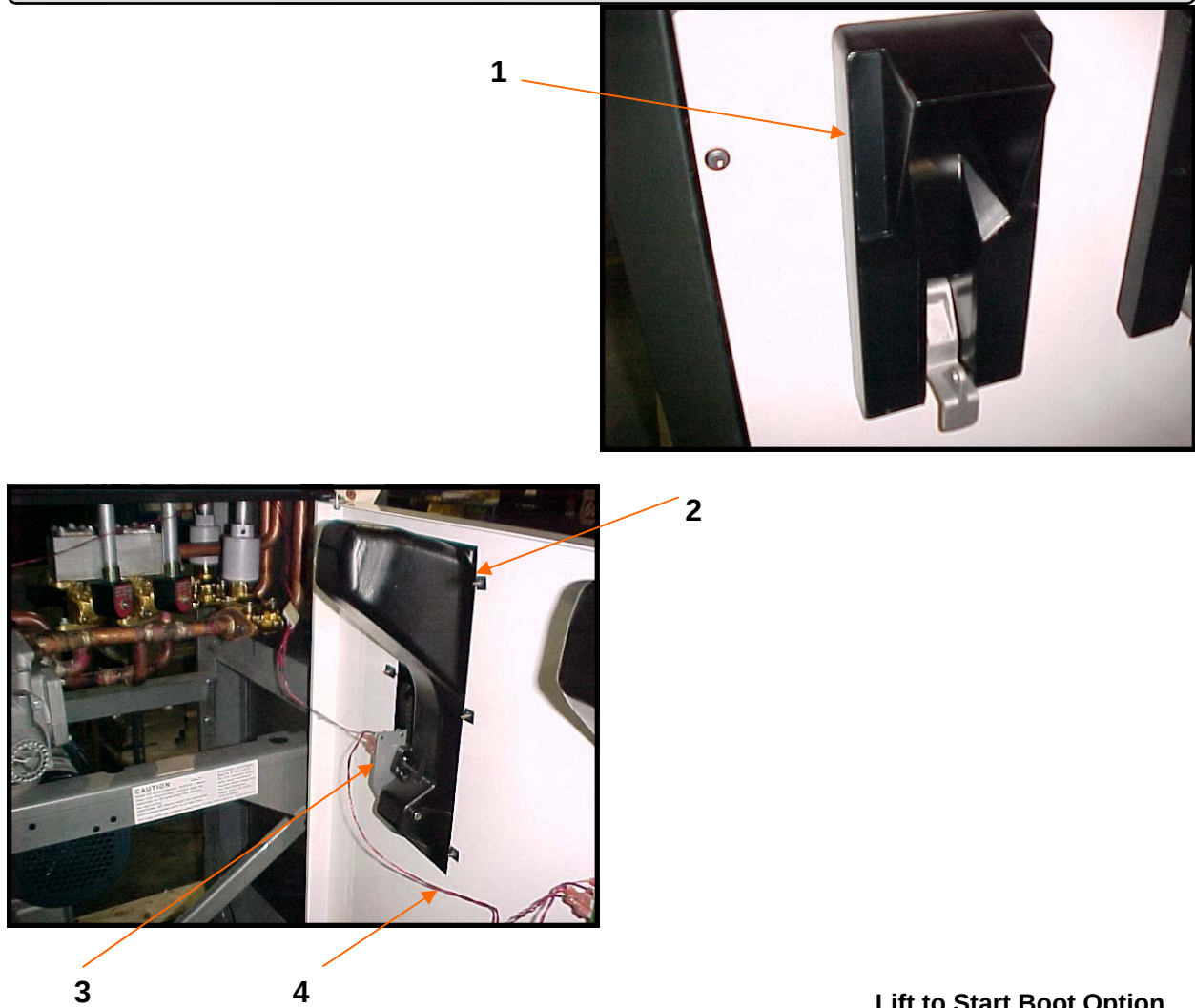
Outer Frame 2300 Model
Remote and Self Contained

Ref	Part No.	Description	Qty
1	100593	Cover, Hose Outlet-Painted Black (2300)(Call Order Entry for other Graphics)	1
2	106297	Panel End, High Hose (Stainless) Same for Right or Left	2
3	107117	Door Assembly, Electronics- (Call Order Entry)	2
4	105906	Hinge 1.5 x 5" Black Finish	4
	106055	Rain Lip - 2300	2
	106059	End Stops, Ad Panel, 2.88 x 3" Black	2
	106503	Ad Panel - No Product, Blk - Call Order Entry for Help	
5	106054	Holder AD Panel , 2300	
6	100287	Door Assembly, 2300 -Call Order Entry For Help	2
7	105925	Nozzle Boot - Lift Lever, Black	2
8	100375	Key Lock Cam-Lower Door, Lower Door	4

Mexico Bank

Part No.	Description
110327	DOOR UPPER 2300 w/ SEIKO BLK, MEXICO BANK
110328	BRACKET-POWER DISTRIBUTION BOARD, MEXICO BANK
110329	BRACKET-SCANQUEST, MEXICO BANK
110330	STRAP-PRINTER CABLE, MEXICO BANK
110331	LENS-SCANQUEST, MEXICO BANK
110332	GASKET-SCANQUEST, MEXICO BANK
110333	GASKET-BANK DISPLAY, MEXICO BANK
110334	DOOR MEXICO BANK BLK, SCREENED
110347	GASKET-CARD READER, MEXICO BANK
110348	SHIPPING PANEL-BANK DISPLAY, MEXICO BANK
110349	SHIPPING PANEL-CARD READER, MEXICO BANK
110327	DOOR UPPER 2300 MEXICO BANK
110348	SHIPPING PANEL DISPLAY
110349	SHIPPING PANEL CARD READER
110330	STRAP PRINTER CABLE

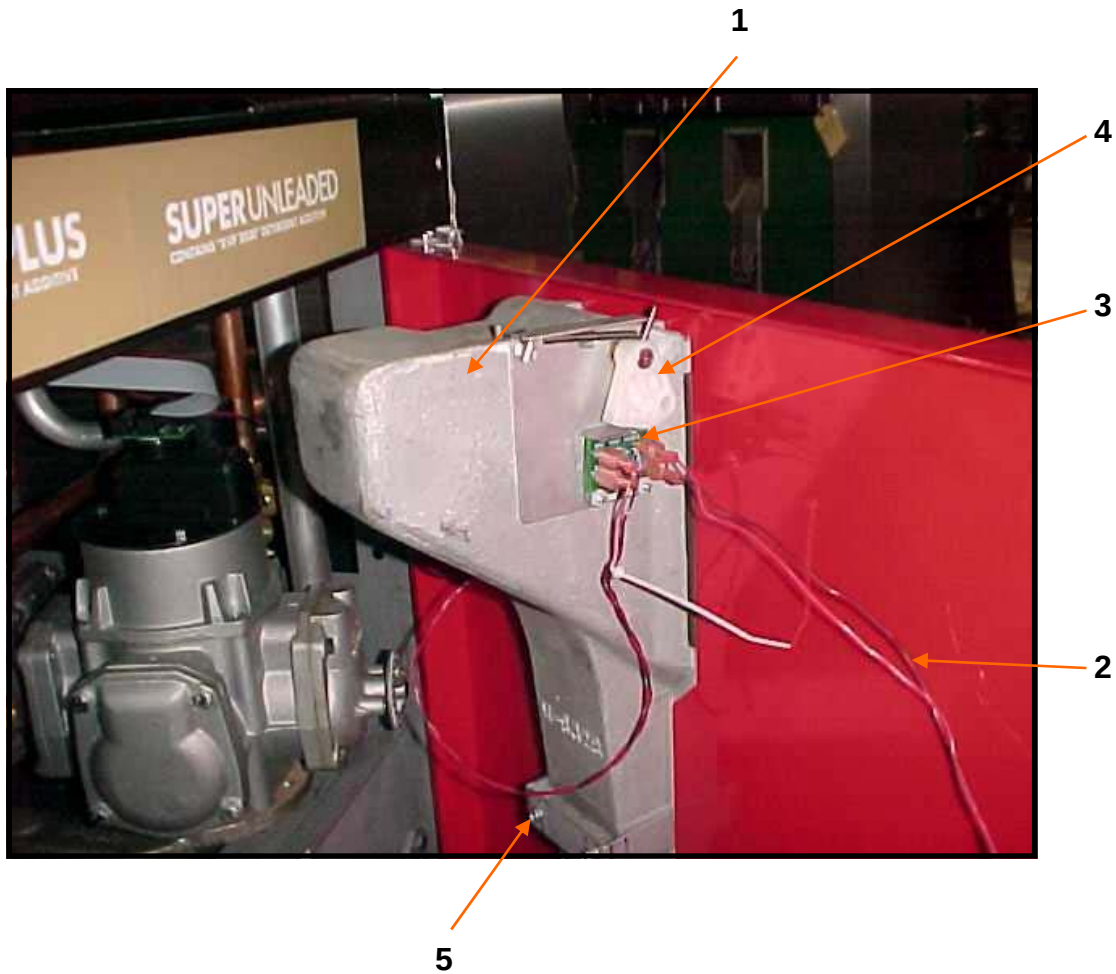
Nozzle Boot Assembly - All Models



Lift to Start Boot Option

Ref	Part No.	Description
1	105925	Nozzle Boot Assembly - Lift Lever Black
2	N509804P01	Boot, Nozzle - Painted Black
3	106062	Circuit Board Assembly, Magnetic Pump Handle
4	106264	Wire, Pump Handle, 14"
	106265	Wire, Pump Handle, 20"
	106266	Wire, Pump Handle, 36"
	N511301	Lever, Nozzle Hook - Standard

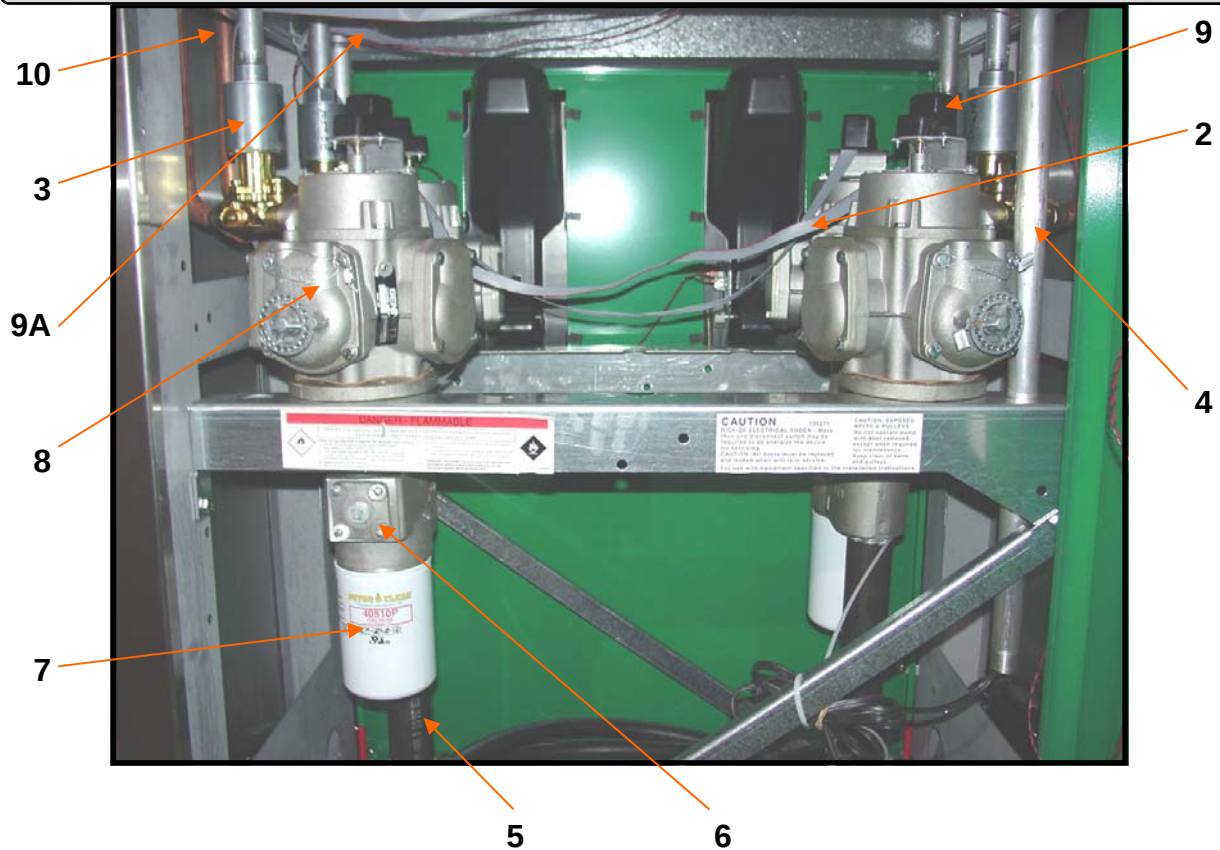
Nozzle Boot Assembly - All Models



Auto-On Boot Option

Ref	Part No.	Description
1	105926	Nozzle Boot Assembly - Auto On
2	106264	Wire, Pump Handle, 14"
	106265	Wire, Pump Handle, 20"
	106266	Wire, Pump Handle, 36"
3	106062	Circuit Board Assembly, Magnetic Pump Handle
4	105921	Magnetic Pickup
5	N834101	Nozzle Boot Bracket
	100145	Nozzle Boot

Lower Door - Hydraulics

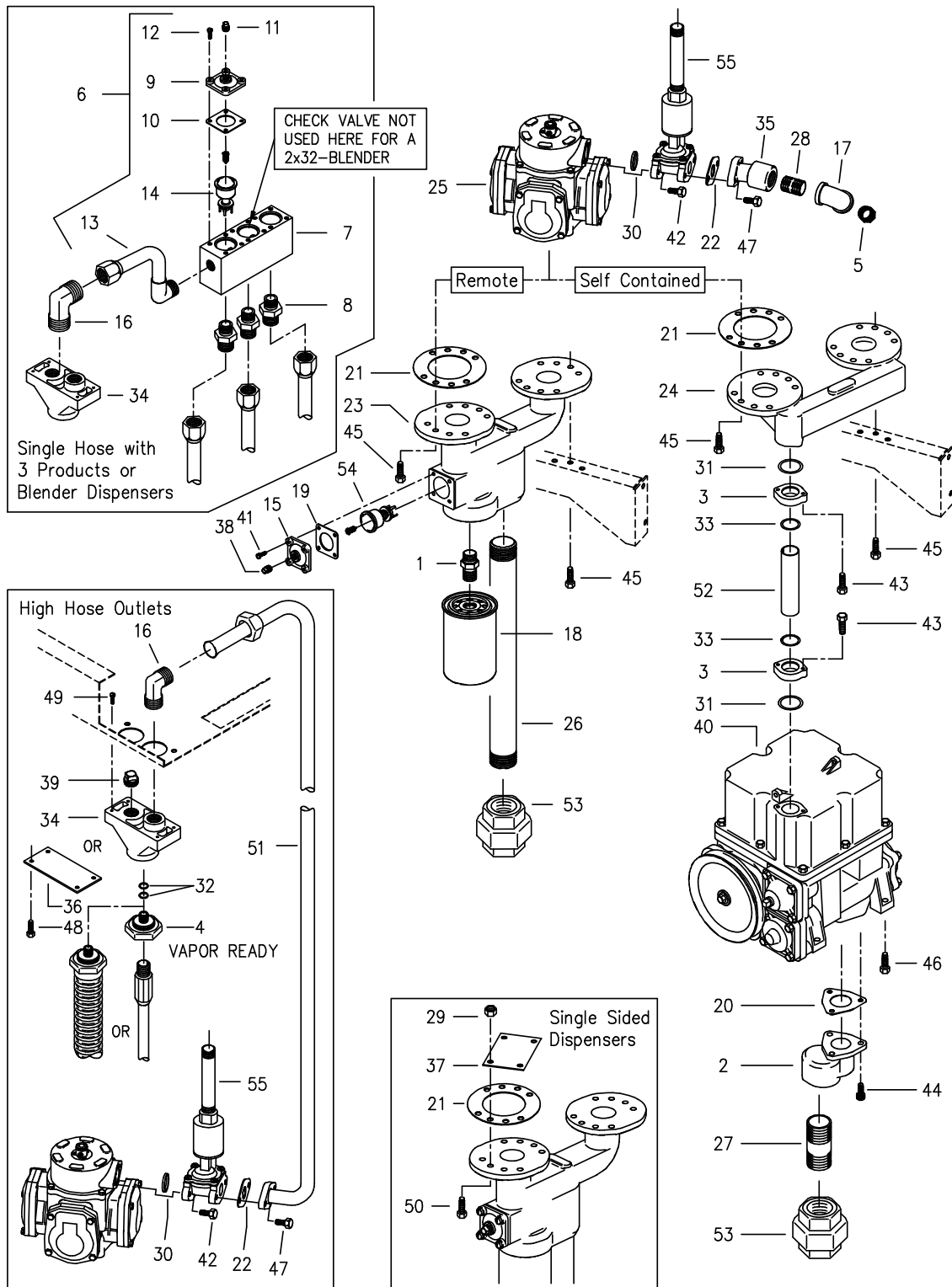


Ref	Part No.	Description
1	105897	Holder Ad Panel 2400 - (Above lower door - Call Order Entry)
2	103786 106071	Pulser Ribbon Cable 16" Pulser Ribbon Cable 24"
3	105900 N636401 105899	24Volts DC two stage valve Gasket, Solenoid to Flange 24Volts DC Blend Valve (Not Shown)
4	105708	Field Wire Conduit 3/4" x 27"
5	100140	Product Inlet Casting (Pipe Nipple 1 1/2" x 13 1/2")
6A	100531	Check Valve and Manifold Assembly - Blender
6	103669 H914201	Manifold Assembly - Inlet to meter Check Valve
7	A270501	Spin On Filter 70 Micron
8	100454 101197 101199 101187	Meter, Gallon, Oriented "D" (Note - with the calibration wheel facing you, the copper tube comes out of meter to the left) Meter, Gallon, Oriented "C" - tube to the right Meter, Gallon, Oriented "B"- tube towards you Meter, Gallon, Oriented "A" - tube away from you
9	108014	Dual Phase Pulser & Mounting Assembly Kit (708)
9A	107902 103785	Conduit Assembly - Pulser and Pump Handle Pin for Meter Output to Pulser
10		Tube, Copper - See Gages

Lower Door - Hydraulics

Part No.	Description
N898201	Vapor Recovery Ready Outlet Assembly
105903	Cover - Electronic Enclosure
100531	Check Valve and Manifold Assembly - Blender
100032	Copper Tube - Side 1 Product A Side 2 Product D
100034	Copper Tube - Side 1 Product D Side 2 Product A
108939	3" Pipe nipple, stainless steel
108641	4 ½" Pipe nipple, stainless steel
108642	7 ½" Pipe nipple, stainless steel
108475	2" Pipe nipple, stainless steel
107413	7" Pipe nipple, stainless steel
107412	5 ½" Pipe nipple, stainless steel
107411	4" Pipe nipple, stainless steel
107410	1 ½" Pipe nipple, stainless steel

Hydraulics Assembly - Remote & Self Contained

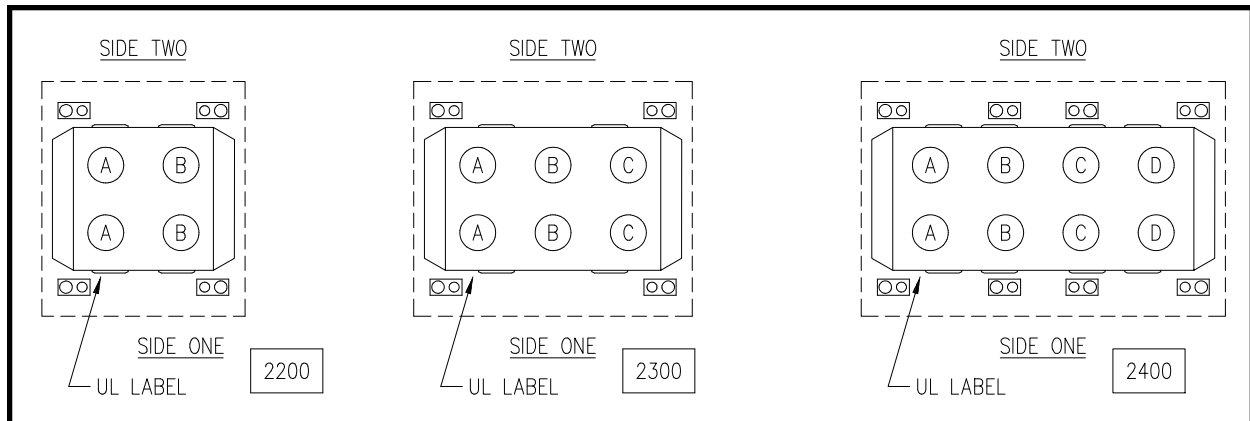


Hydraulics Assembly - Remote & Self Contained

Ref	Part No.	Description	Qty
1	N557701	Adaptor, Filter	1 per Remote Manifold
2	100636	Adaptor, Inlet (pumping unit)	1 per Pump
3	100557	Adaptor, Meter Tube	1 per Pump
4	N614301	Adaptor, Balanced Vapor Recovery	1 per Hose
5	A583701	Bushing, Reducer	1 per Hose
6	100271	Check Valve and Manifold Assembly - Non-Blender	1 per Side
	100531	Check Valve and Manifold Assembly - Blender	1 per Side
7	N830201	Body	1 per Hose
8	A596501	Coupling - Male-3/4" NPFT to 1-3/16th"-12"T" Straight	3 per Hose
9	H386801	Cover, Check Valve	3 per Hose
10	H384901	Gasket, Check Valve	3 per Hose
11	A044001	Plug, Pipe- Square HD, 1/8" Pipe	3 per Hose
12	A283704	Screw, Hex HD, 10-24	12 per Hose
13	100224	Tube Assembly, Product	1 per Hose
14	H914201	Check Valve Assembly	
15	H386801	Cover, Check Valve	1 per Remote Manifold
16	A565901	Elbow - Male -90 Deg, 7/8"OD Tube 1-1/4"-12 Thread	1 per Hose
17	N741301	Elbow, Hose (Black)	1 per Hose
18	A270501	Filter (Spin On)	1 per Remote Manifold
19	H384901	Gasket, Cover-Check Valve	1 per Remote Manifold
20	N795301	Gasket, Inlet Adaptor	1 per Pump
21	100535	Gasket, Meter Inlet	2 per Manifold
22	N636401	Gasket, Solenoid	1 per Meter
23	100004	Manifold, Meter, Valve and Filter (Remote)	1 per Inlet
24	100635	Manifold, Meter - Pumping Unit Self Contained	1 per Inlet
25	100452	Meter Assembly, SB-100 (Outlet and Piston Cover) "4"	1 per product
26	100140	Nipple-Pipe-1-1/2" x 13-1/2"	1 per Remote Manifold
27	E169122	Nipple Pipe - 1-1/2" x 2-1/4"	1 per Pump
28	A184406	Nipple-Pipe	1 per Hose
29	A219104	Nut, Hex w/Ext Lockwasher, 5/16-18	4 per remote manifold
30	A247018	O'Ring Square Section	1 per Meter
31	A247017	O'Ring Square Section	2 per Pump
32	A212248	O'Ring, Round Section	2 per Hose
33	A212249	O'Ring, Round Section	2 per Pump
34	N898201	Outlet Assembly, Coax, Includes O'Rings	1 per Hose
35	100147	Outlet , Hose (low Hose)	1 per hose
36	N641402	Plate, Outlet Cover	1 per Outlet
37	N680201	Plate, Valve and Filter Manifold	1 Per Manifold
38	A044001	Plug, Pipe-Square HD 1/8" Pipe	1 Per Hose
39	A526601	Plug, Pipe—Plastic, 3/4" NPT	1 Per Outlet
40	N190730	Pumping Unit, Type 75	1 per inlet
41	A181402	Screw, Fillister HD, 10-24 x 5/8	4 per Rmt Manifold
42	100534	Screw, Metric Socket HD Cap 20 mm	2 per meter
43	A479802	Screw, Metric Socket HD M6-30mm	4 per pump
44	100637	Screw, Metric Socket HD M10-1.5x40mm	3 per pump
45	A479902	Screw, Metric Head HD,M8-1.25x25mm	4 per meter
51	100351	Tube Assembly, Product, High Hose	1 per meter
52	100638	Tube 6-1/8th	1 per pump
53	100636	Union Inlet 1-1/2"	1 per inlet
54	H914201	Valve Assembly, Check	1 per Rmt Manifold
55	N655801	Valve Assembly, Solenoid, 24Volts DC 2 stage, 60 hz	1 per meter
56	N837601	Valve Assembly, Solenoid Repair Kit	1 per meter
	100033	Tube Assy S2-PB Horizon 2432	
	100808	Tube Assy S1-PB Horizon 2432	
	105899	Blend Valve 24 volt D.C.	

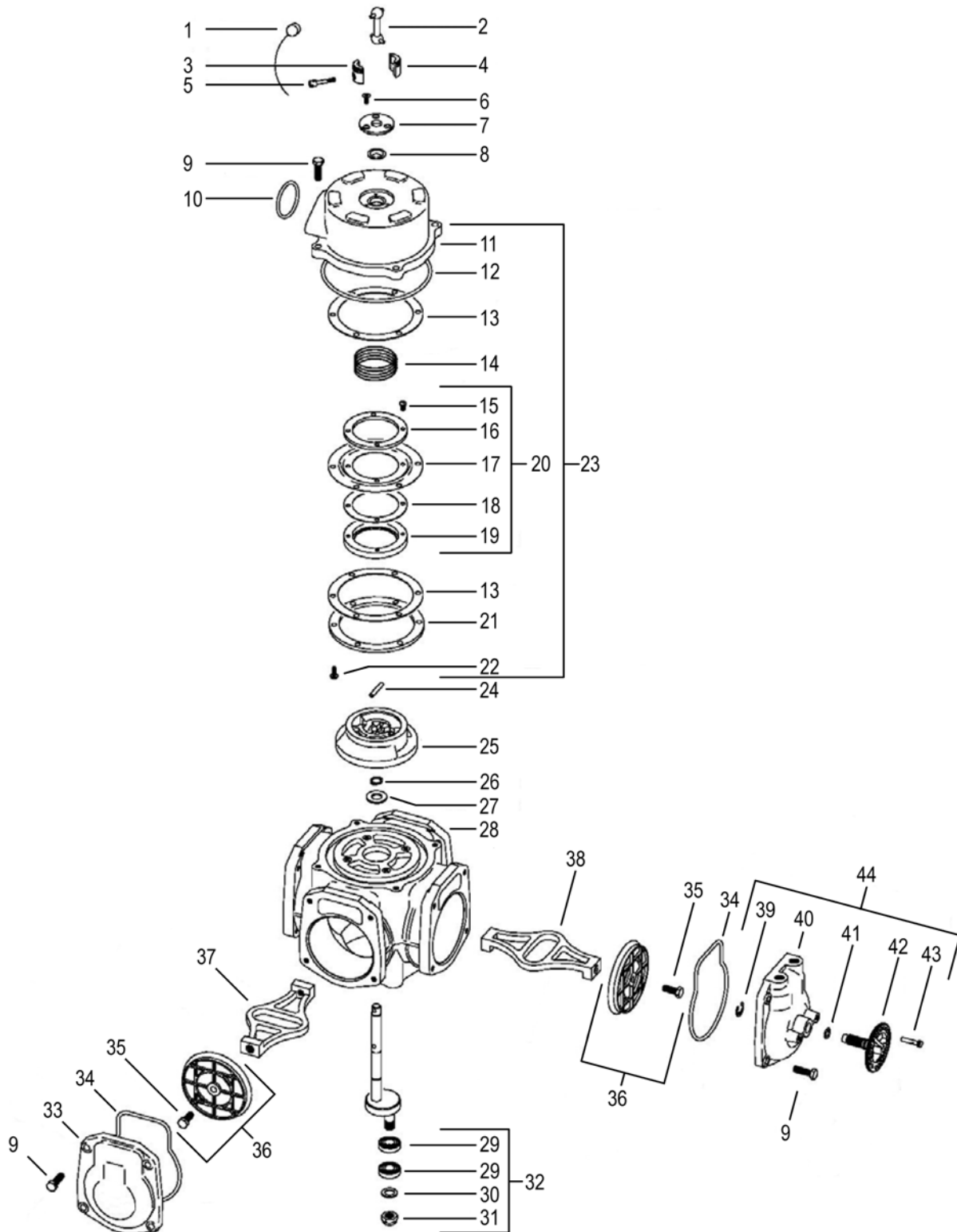
Hydraulics - See Gages

Series Number	Tube Assemblies, Product - High Hose:							
	Meter Location & Part Number							
	Side1-A	Side 1-B	Side 1-C	Side 1-D	Side 2-A	Side 2-B	Side 2-C	Side 2-D
2211xx-1	100351							
2212xx-2	100351	100301						
2222xx-1	100351	100301						
2224xx-2	100351	100301	100301	100351				
2311xx-1	100351							
2312xx-2	100300	100351						
2322xx-1	100351	100301						
2324xx-2	100351	100301	100301	100351				
2331xx-1	100351	100533	100034					
2332xx-2	100351	100533	100034	100034	100533	100532		
2422xx-1	100351	100301						
2424xx-2	100351	100301	100301	100351				
2433xx-1	100351	100301	101204					
2436xx-2	100351	100301	101204	100301	100353	100351		
2444xx-1	100351	100352	100353	100301				
2448xx-2	100351	100352	100353	100301	100301	100353	100352	100351
2431xx-1	100032	100033	100034					
2432xx-2	100032	100033	100034	100034	100033	100032		
2442xx-1 (3+1)	100032	100808	100034	100665				
2444xx-2 (3+1)	100032	100808	100034	100665	100034	100033	100032	100664

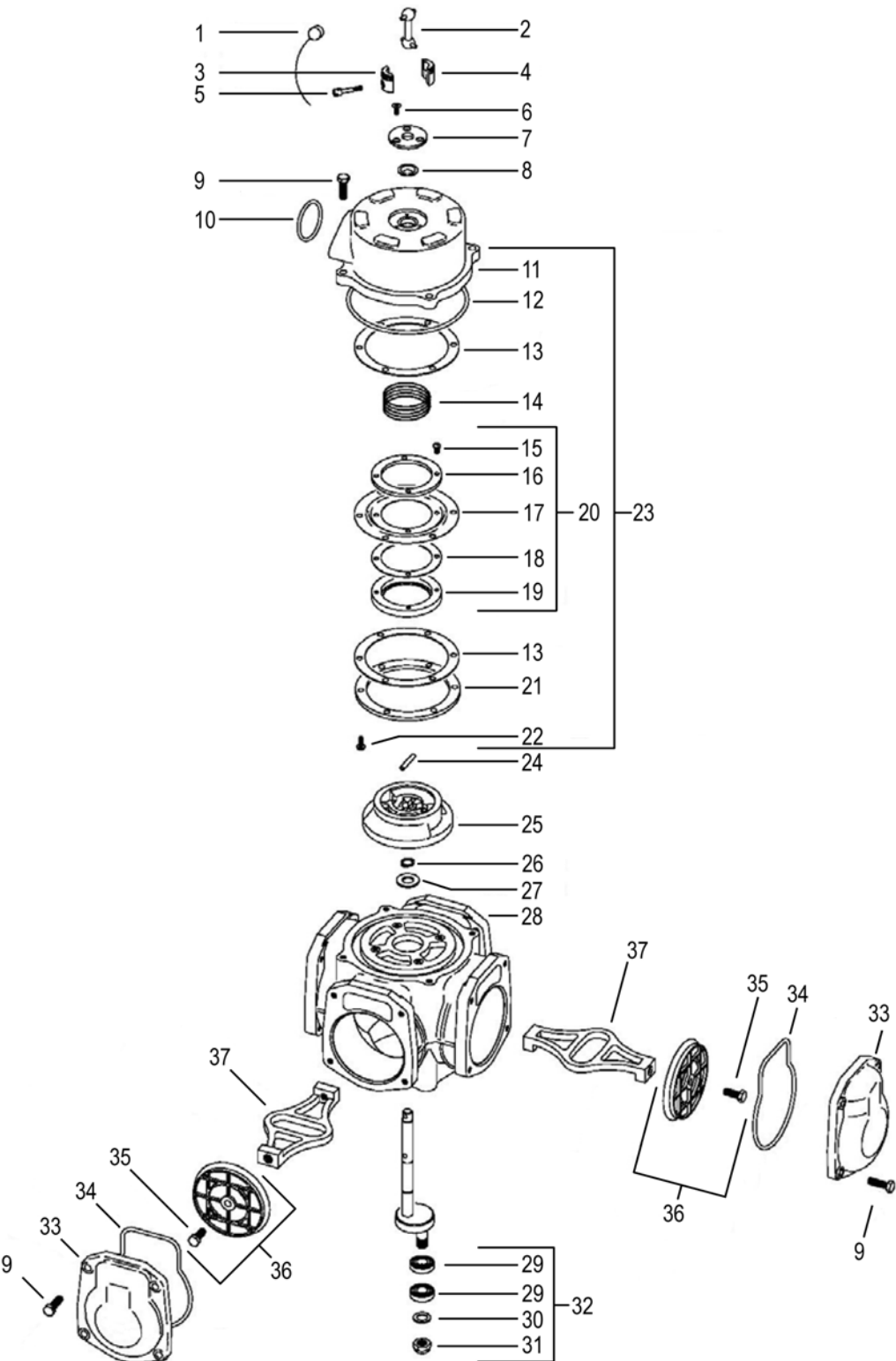


STRAIGHT THRU, ELBOW AND SAUSER SIGHT GLASS

SB100 Mechanical Meter



SB100 Electronic Meter



SB100 Meter Parts List

Item	Part Number	Description	Comment
1	N/A	Lead Seal Wire	Please Call 231-798-1310 for details
2	N/A	Universal Link	Please Call 231-798-1310 for details
3	H651203	Half Coupling	Unthreaded See Kit List
4	H650402	Half Coupling	Threaded
5	H650501	Screw	
6	A480001	Screw, Flat Head	M3.5 - 0.6 X 8 mm
7	N666401	Shaft Seal Retainer	
8	107694S	Shaft Seal	
9	A586901	Screw, Hex Head	M6 - 1.0 X 20 mm
9	N840401	Screw, Hex Head	M6 - 1.0 X 20 mm with Seal Hole
10	A247018	O-Ring, Square Section	
11	N646502	Collector Cover	
11	103044	Collector Cover	High Alcohol
12	A247019	O-Ring, Square Section	
13	N673201	Gasket	
14	103077	Spring	
15	A631901	Screw, Fil Head	M4 - 0.7 X 10 mm Stainless Steel
16	N685901	Inner Diaphragm Retainer	
17	100081	Diaphragm	
18	N673101	Gasket	
19	N902501	Counter Valve	
20	101183	Counter Valve Assembly	
21	N685801	Outer Diaphragm Retainer	
22	A586801	Screw, Pan Head	M5 - 0.8 X 12 mm
23	101184	Collector Cover Assembly	
23	103048	Collector Cover Assembly	High Alcohol
24	N672601	Drive Pin	
25	N891601	Distributor	
26	A579901	Retaining Ring	
27	A584001	Washer	Crankshaft Support
28	101185	Meter Body Assembly	
28	103049	Meter Body Assembly	High Alcohol
29	N903701	Roller & Bearing Assembly	
30	A631801	Washer	
31	A239401	Lock Nut	
32	N903801	Crank Shaft Assembly	Gallons
32	N903802	Crank Shaft Assembly	Liters
33	N659201	Cylinder Cover	
33	103041	Cylinder Cover	High Alcohol
34	A247010	O-Ring, Square Section	
35	N792201	Piston Screw, Hex Head	With Nylon Patch (also use with High Alcohol)
36	N701502	Piston Assembly	
36	103046	Piston Assembly	High Alcohol
37	N654802	Connecting Rod	Lower Rod
38	N654801	Connecting Rod	Upper Rod
39	A586401	Retaining Ring	
40	N683701	Calibrating Cover	
40	103043	Calibrating Cover	High Alcohol
41	111787	O-Ring	Also used with High Alcohol
42	N701601	Calibrating Dial & Screw Assembly	
43	N675801	Seal Pin	
44	N779601	Calibration Cover Assembly	
44	103047	Calibration Cover Assembly	High Alcohol
45	100535	Gasket, Meter Inlet	Not Shown
46	N902401S	Valve Plate	Not Shown
47	A586601	Screw, Valve Plate	Not Shown
48	A578404	DU Bearing, Meter Body	Not Shown, for meters built since 1995
49	N906501	DU Bearing and Retainer, Meter Body	Not Shown, for meters built before 1995

Kit List

Part Number	Description	Comment
100965	Kit, SB100, V'Plate/C'Valve Replacement	Includes 1 each of items 8, 10, 12, 13, 14, 20, 25 & 46
KR043601	Kit, SB-100 Piston Retail, 4 Per	Includes 4 of items 34, 35, & 36, 1 each of 10 & 45
112343	Kit, SB-100 Piston Retail, Alcohol Meters	Includes 4 of items 34, 35, & 36, 1 each of 10 & 45
107170	Kit, Crankshaft Bearing Replacement	Includes 2 of item 29, 1 ea. of 10, 31 & 45
112246	Kit, Lower Hydraulic Gallon SB-100	Includes 4 of items 34, 35, & 36, 1 ea. of 8, 10, 12, 26, 32, 45 & 48
112347	Kit Lower Hydraulic Gallon SB-100 Alcohol	Includes 4 of items 34, 35, & 36, 1 ea. of 8, 10, 12, 26, 32, 45 & 48
112247	Kit Lower Hydraulic Liter SB-100	Includes 4 of items 34, 35, & 36, 1 ea. of 8, 10, 12, 26, 32, 45 & 48
112348	Kit Lower Hydraulic Liter SB-100 Alcohol	Includes 4 of items 34, 35, & 36, 1 ea. of 8, 10, 12, 26, 32, 45 & 48
KR044601	Kit, SB-100 Diaphragm/Distributor	Includes 4 of item 15, 1 ea. of 8, 10, 12, 13, 14, 17, 25 & 45
112651	Kit, SB-100 Meter Coupling	Includes items 3, 4 & 5
103490	Kit, Tools for Du Bearing Replacement	
112248	Field Du Bearing Install/Removal Tool	

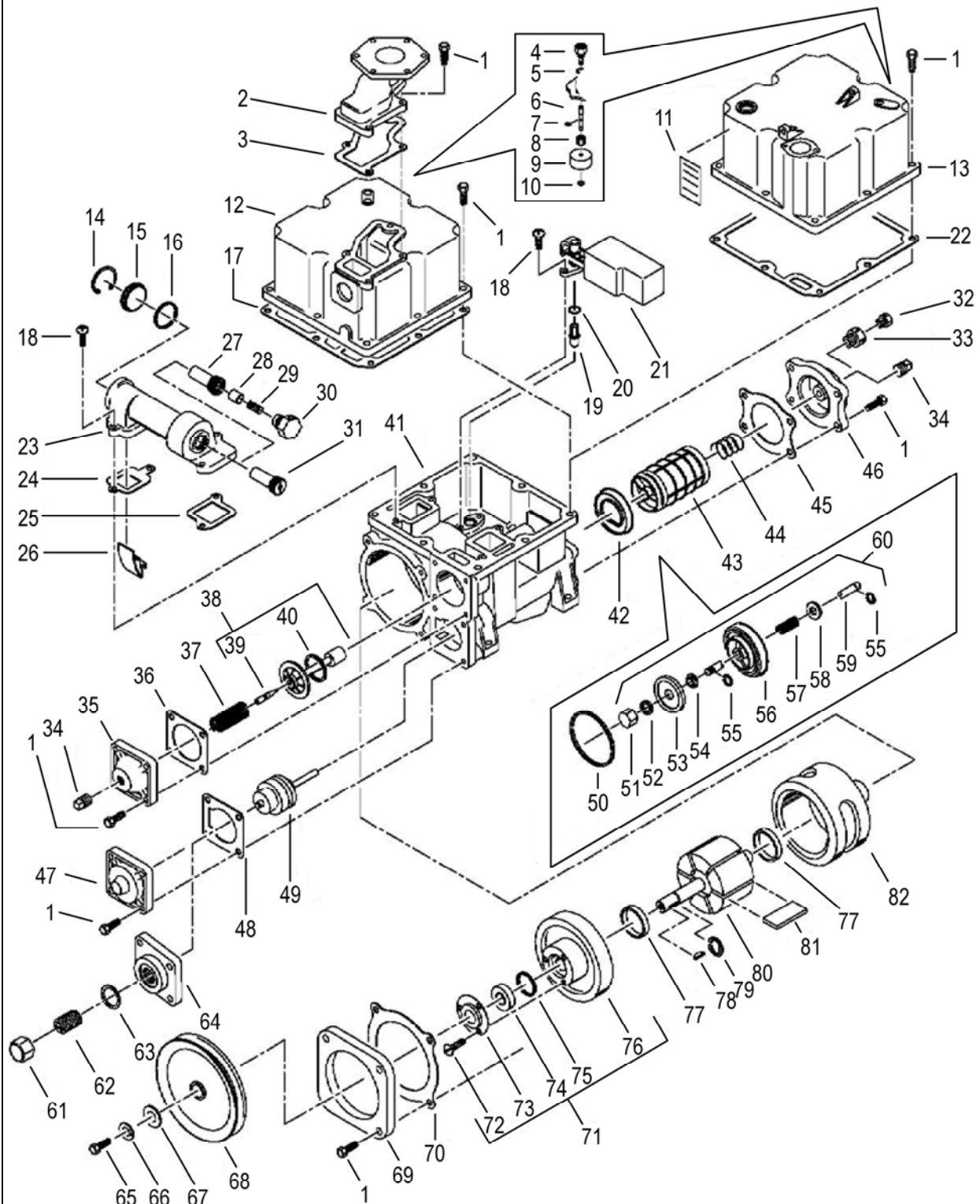
These two kits are for SB100 meters built since 1995

KR044703	Kit, SB-100 Meter, Crankshaft, Gallons	Includes 4 of item 34, 1 ea. of 8, 10, 12, 26, 32, 45 & 48
KR044704	Kit, SB-100 Meter, Crankshaft, Liters	Includes 4 of item 34, 1 ea. of 8, 10, 12, 26, 32, 45 & 48

These two kits are for SB100 meters built before 1995

KR044701	Kit, SB-100 Meter, Crankshaft, Gallons	Includes 4 of item 34, 1 ea. of 8, 10, 12, 26, 32, 45 & 49
KR044702	Kit, SB-100 Meter, Crankshaft, Liters	Includes 4 of item 34, 1 ea. of 8, 10, 12, 26, 32, 45 & 49

Type 75 Pumping Unit



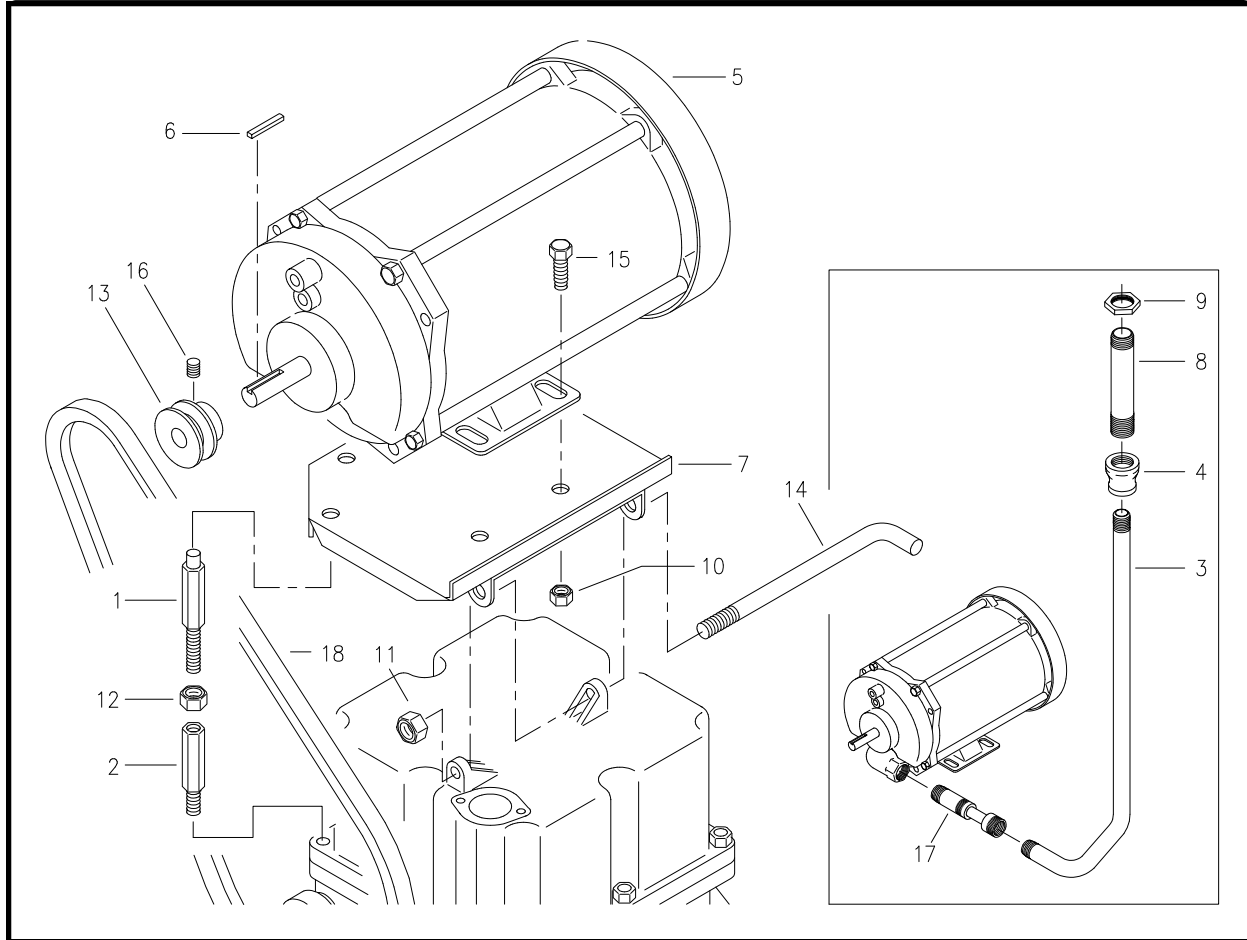
Type 75 Pumping Unit Parts List

Item	Part Number	Description	Comment
1	A479902	Bolt	M8-1.25 X 25 mm (Use N840502 for Seal Wire Bolt)
2	N152902	Meter Inlet Adaptor	With Tap
	105588	Meter Inlet Adaptor	High Alcohol
3	N162801	Gasket, Meter Inlet Adaptor	
4	108731	Housing, Air Valve Float Assembly	
5	108737	Gasket	
6	108732	Shaft	Furnished as an Assembly - 108805
7	108735	Snap Ring	
8	108733	Nut	
9	108734	Float	
10	108736	Retainer Ring	
11	110211	ID Tag	
12	N152801	Cover, Atmospheric Chamber	Meter Mount Style
	105787	Cover, Atmospheric Chamber	Meter Mount Style - High Alcohol
13	N347901	Cover, Atmospheric Chamber	Pipe Outlet with Motor Mount Ears
	103055	Cover, Atmospheric Chamber	Pipe Outlet with Motor Mount Ears - High Alcohol
	108945	Cover, Atmospheric Chamber	GPU
	109582	Cover, Atmospheric Chamber	GPU - High Alcohol
14	A471001	Retainer Ring	
15	103089	End Plug (Alcohol Fuel)	N225201 for Standard Fuel
16	111789	O-Ring #O28	For use with 3 Piece Body - Also used with High Alcohol
17	N162901	Gasket - Atmospheric Cover	
18	A480101	Bolt - Round Head	M6-0.7 X 20 mm
19	N888301	Non-Reversing Float	
20	111788	O-Ring #O17	Also used with High Alcohol
21	109892	Atmospheric Float Assembly	
22	N162901	Gasket - Atmospheric Cover	
23	N153801	Air Separator Body	One Piece Body - 113078
	103051	Air Separator Body	One Piece Body - 113079 High Alcohol
24	N162501	Gasket, Inlet Separator	
25	N162601	Gasket, Outlet Separator	
26	N190201	Insert - Air Separator Inlet	
27	108727	Tube - Air Separator	OIML Only
28	108730	Piston	
29	108725	Spring	
30	108728	End Cap	
31	N225301	Tube - Air Separator	
32	109668	Screw - Air Test Valve	
33	109666	Adaptor - Air Test Valve	
34	A019902	Pipe Plug	1/4 - 18NPT
35	N154801	Cover, Control Valve	
	103053	Cover, Control Valve	High Alcohol
36	N162301	Gasket	
37	E008001	Spring	Standard Delivery Pump 12 GPM
	J325201	Spring	Heavy Duty Delivery Pump 22 GPM
38	N107301	Control Valve Assembly	Brass Body Version
	113022	Control Valve Assembly	Aluminum Body Version with Hard Coat
	110368	Control Valve Assembly	High Alcohol
39	A320901	Pressure Relief Valve	
40	111790	O-Ring #210	Also used with High Alcohol
41	N150602	Pump Body	
	103052	Pump Body	High Alcohol
	N150603	Pump Body	Side Inlet Version
	109735	Pump Body	Side Inlet High Alcohol
42	N160301	Filter Insert	
43	100070	Strainer	Standard Production
	A311901	Filter	Paper Filter 35 Micron
		Strainer	Special - Used with Sack
	N347301	Cloth Sack	10 Micron

Type 75 Pumping Unit Parts List

Item	Part Number	Description	Comment
44	N905001	Filter Spring	
45	N162201	Gasket	
46	N154701	Filter Cover	
	103054	Filter Cover	High Alcohol
47	N154901	Bypass Cover	Non-Adjustable
	105585	Bypass Cover	High Alcohol
48	N162401	Gasket	
49	N481201	Bypass Valve	Standard - Silver Spring Low Pressure
	N481202	Bypass Valve	Standard - Green Spring Medium Pressure
	N481203	Bypass Valve	Standard - Copper Spring High Pressure
50	111791	O-Ring #229	Also used with High Alcohol
51	A620801	Cap Nut	
52	A620901	Seal Ring	
53	N873001	Disc	
54	N872801	Adaptor	Not Sold Separately - See Item #60
55	A620101	Retaining Ring	
56	N872901	Check Valve Body	
57	N873201	Spring	
58	N873101	Washer	
59	N872701	Shaft	
60	N873301	Check Valve Assembly	With out Ring
	KR044102	Check Valve Assembly	Includes Item #50 & Item #60
61	N308301	Cap	
62	N308201	Adjustment Screw	
63	A507901	Washer	
64	N308101	Cover - Adjustable Bypass	
65	A479903	Screw	M8 - 1.25 X 20 mm
66	A000301	Lock Washer	
67	A028101	Flat Washer	
68	N106901	Pulley - Single Groove	
	100040	Pulley - Dual Groove	
69	N155901	Clamping Ring	
70	N162701	Gasket	
71	J682702	Rotor Cover Assembly	
72	A480001	Flat Head Screw	
73	H352101	Shaft Seal Retainer	
74	A323702	Shaft Seal (with insertion tool)	109711 Shaft Seal Kit - Includes #74 & 75 with install plug
75	A247014	Square Seal	
76	N103801	Rotor Cover	
77	N650401	Throw Out Ring	Standard Delivery Pump
	N238101	Throw Out Ring	Heavy Duty Pump
78	A199501	Woodruff Key	
79	A263101	Retaining Ring	
80	N238301	Rotor & Shaft Assembly	Standard 6 Blade Rotor
	*KR0420xx	*Rotor Replacement Kit	Includes #70, 74, 75, (2) 77, 80, (6) 81 xx="01" Std Delivery "02" Heavy Duty
81	110704	Rotor Blade	
82	N156401	Stator	Standard Delivery Pump
	N159501	Stator	Heavy Duty Pump
	KR036604	Gasket Set for Pumping Unit	Complete Set of Gaskets, Seals, and O-Rings for P/U

Electrical - Motor - Self Contained

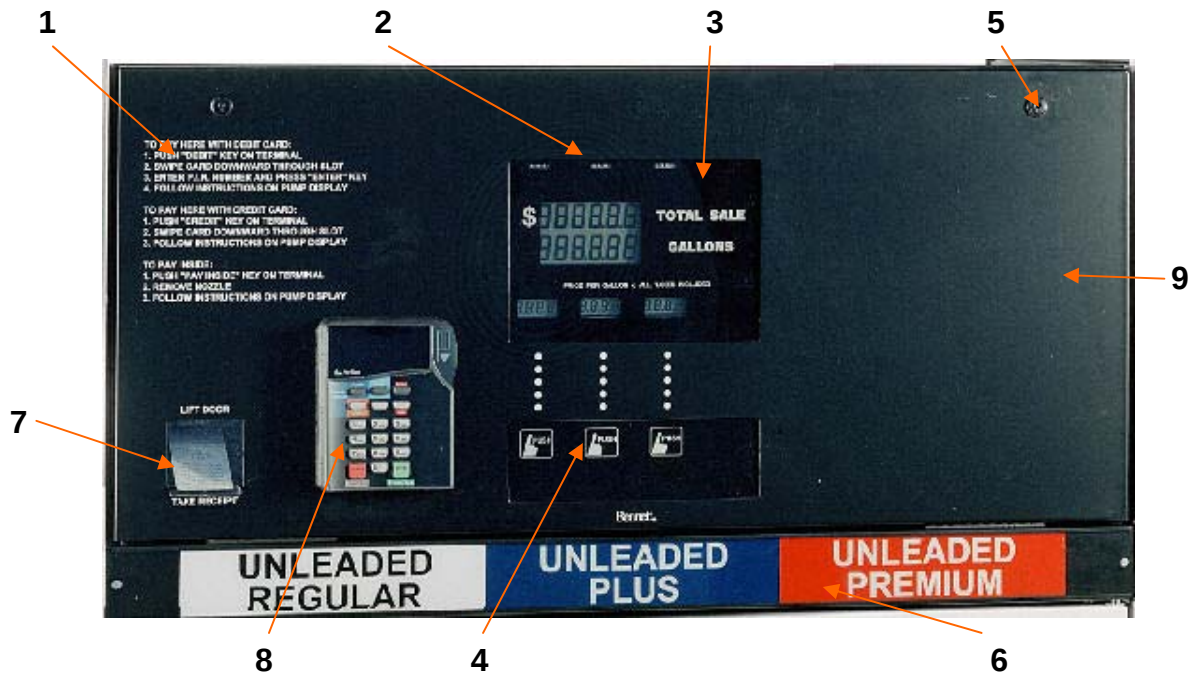


Ref	Part No.	Description	Qty
1	N655101	Adjuster, Motor (Top)	1
2	N655201	Adjuster, Motor (Bottom)	1
3	100762	Conduit, Motor	1
4	A054701	Coupling, Reducer	1
5	106840	Motor, 1 HP 115/230 v, 1 phase (single sided unit)	1
	106859	Motor, 1 HP 230/360 v, 3 phase (dual sided unit)	1
6	A243101	Key only	1
7	N630501	Motor Plate and Angle Assembly	1
8	101120	Nipple, Conduit 8.1" Long	1
13	102594	Pulley, 2-1/4" Diameter (60 hz motor-standard/heavy duty)	1
14	N794701	Pulley, 2-3/4" Diameter (50 hz motor-standard)	1
17	H033301	Slip Joint Assembly	1
18	A267809	V-Belt, 38" (60 Hz Motor)	1
	102835	V-Belt, 39" (50 Hz Motor)	1
	101187	Meter, Gallon, Oriented "A" - tube away from you	

Speaker - High Hose Models

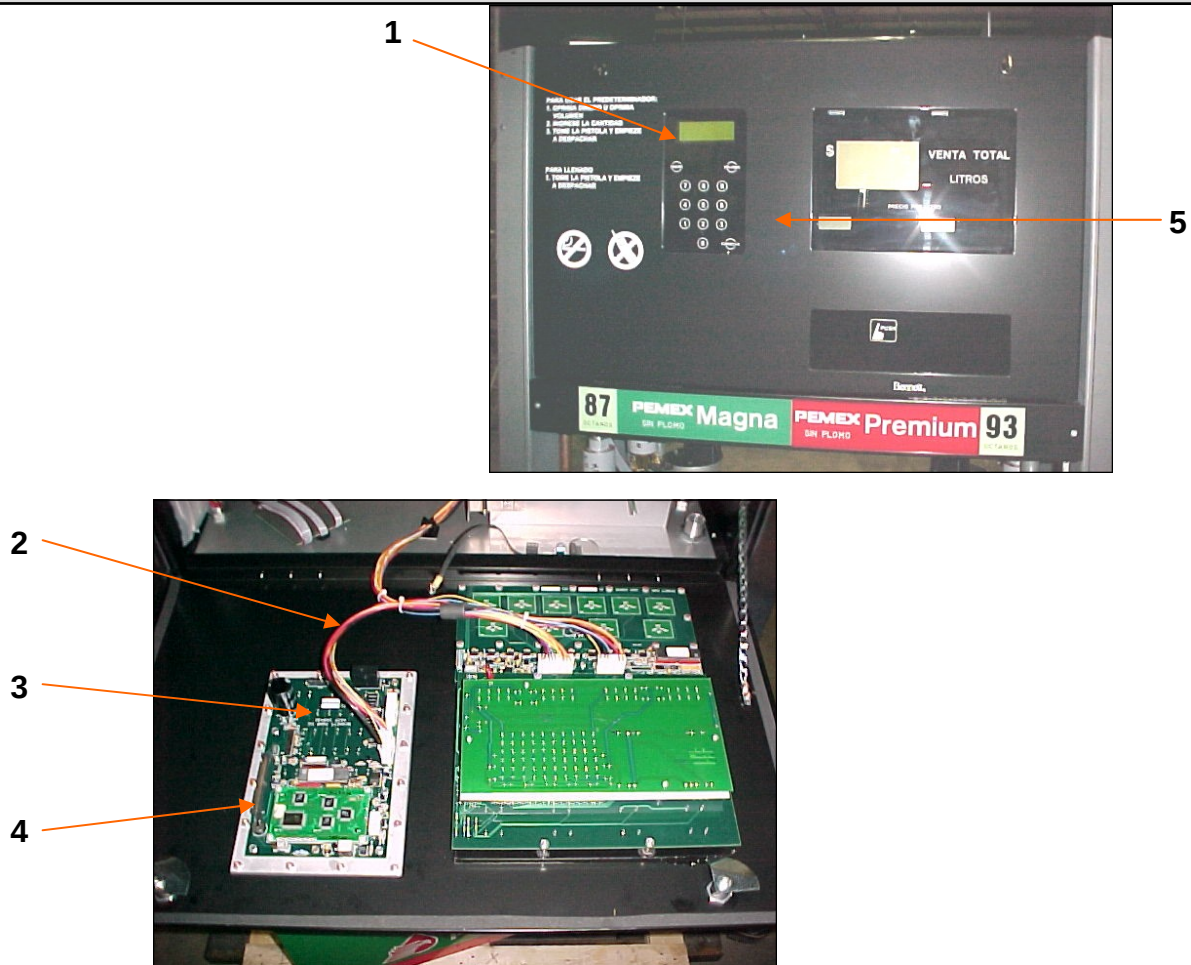
Part No.	Description	Qty
107684	Base Speaker Wiring Enclosure	1
108327	Conduit - Speaker Input	1
107683	Cover- speaker wiring enclosure	1
108283	Mounting plate - Speaker	1
108018	Switch - Operator—Yellow	1
108019	Switch - Contact Block	1

Electronic Door Assembly



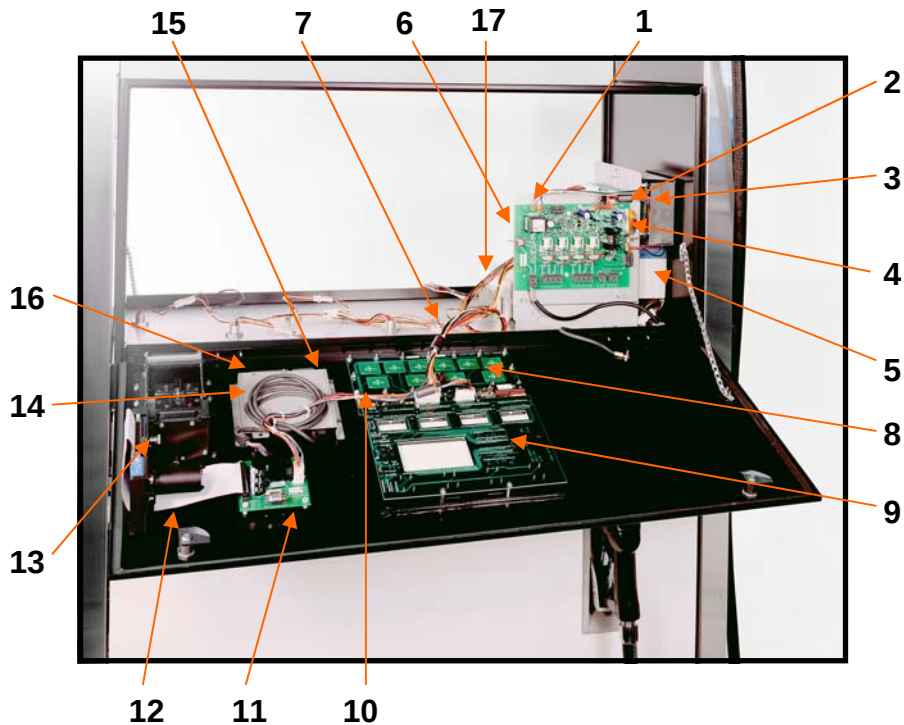
Ref	Part No.	Description	Qty
1		Decal (Call Order Entry for Help)	2
2	106174	Totalizer, Electromechanical	3
3	106197	Display Cover (Call Order Entry)	3
	106199	Display Cover - English US ABC	
	107385	Gasket - Main Display	
4	106495	Product Select Overlay, Blank (Call Order Entry for Help)	
	106181	Product Select Overlay - 3 Product	
5	105919	Key Lock, Sealed, black Finish	1
6	106655	Panel Ad-Conoco Unleaded 12" (Call Order Entry for Help)	1
	106657	Panel Ad-Conoco Unleaded Plus12"(Call Order Entry for Help)	1
	106042	Gasket, product select board	2
	106751	Spacer, product select board	
	106059	End Stops - Ad Panel 2.88 x 3 Black	
7	106154	Door Receipt Printer	2
	106461	Receipt Printer Paper 60 mm x 4.0 OD/Rev Wound	
	106246	Printer Assembly, Seiko	
8	104740	VeriFone Everest Card Reader Overlay (Credit Only) Call Order Entry for help	1
9	106496	Door Upper 2300 Debit Multi-hose BLK (Shown) (Call Order Entry for Help)	1

Local Preset



Ref	Part No.	Description	Qty
1	106714	Local Preset Overlay-Spanish, No Printer (Call Order Entry for specific overlay)	2
2	106722	Cable Assembly - Local Preset	2
3	106432	Local Preset, Electronic Board	2
4	106606	Mounting Bracket, Metal, Local Preset	2
5	106718	Door, Upper, Local Preset, Spanish	

Electronic Control Module - Side 1

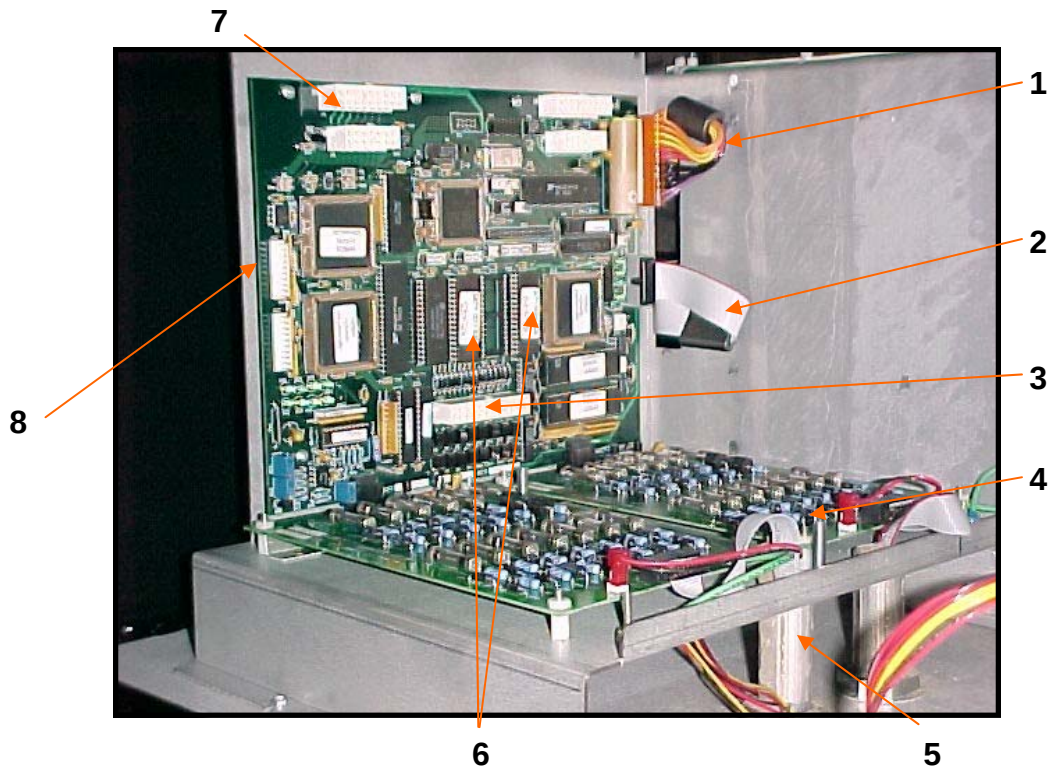


Ref	Part No.	Description	Qty
1	105910	Cable Harness 120Volts AC to power supply	1
2	105911	Cable Harness Power Supply to Power Dist. Bd.	1
3	105512	Power Supply Assembly, No Enclosure	1
4	105913	Cable Harness Power Dist. Bd. To CPU, 16 conductor ribbon cable	1
5	105908	Battery, Rechargeable, 12 volt, 5 amp hour	1
6	105909	Battery Cable	1
	105629	Power Distribution Board	1
	105915	Cover, Metal - Power Distribution Bd. (Not Shown)	1
7	106262	Cable Harness-CPU to Product Select	2
8	105639	Product Select Board, Touch	2
	106495	Product Select Overlay, Blank, (Spacer)(closest to door)	2
	106042	Product Select Overlay Gasket	2
	106751	Spacer-Product Select Board (Lexan-Not Shown)	2
	106462	Chain Sash size 40 zinc plated	
	106460	Ground Strap, 10" Ring-Ring	
	105919	Lock, sealed, black finish	
	106100	Diffuser - Backlight (not shown)	
9	106018	Main Display Electronic Board - English	2
	106197	Main Display English US Plastic Overlay	2
	106259	10 Conductor Ribbon Cable from Display to Product Select (2")	2
	106100	Diffuser Backlight Filter (Not Shown)	2
	106143	Backlight Circuit Board	2
	106276	Backlight cable, Power	2

Electronic Control Module - Side 1

Ref	Part No.	Description	Qty
10	106263	Cable Harness– VeriFone Interface board to Product Select Board	2
11	106070	VeriFone Interface Board (VIB)	2
12	106260	Printer Cable - 50 Conductor Ribbon	2
13	106246	Printer - Thermal Receipt (Seiko)	2
	106461	Thermal Receipt Printer Paper (single roll) 60mm x 4" O.D. Reverse Wound	2
14	104253	Card Reader (Cable) from DCT to VIB	2
15	107255	Card Reader- (Call Order Entry for Help)	2
	103683	Seal - Keypad to Door	2
	105158	Decal,DCT,CONOCO (Call Order Entry for Help)	2
16	103688	Bracket Mount– Debit Keypad	2
17	107386	Wire Assembly, Valves 24Volts dc 2324, std	2
	105847	Wire Assembly, Valves 24 V, 2400	2
	106462	Chain - Door	2
	106360	Managers Keypad (Not Shown)	1
	104447	Managers Keypad Cable	
	A345003	Bag, Re-closeable with Following Contents:	
	A215401	Eyebolt	
	N895601	RC Network Instructions	
	A444101	RC Networks	1
	105894	Horizon 2 Installation Manual	
	106362	Horizon 2 Operators Manual	
	110284	Card Reader Tesoro DUKPT	
	110355	Decal DCT Credit/Debit BPO H2	

Electronic Control Module Assembly - Side 2



Ref	Part No.	Description	Qty
1	105914	Cable Harness - CPU Power, Multi-Color	1
2	105913	Ribbon Cable - CPU to Power Distribution Board, 16 conductor	1
3	105847	Valve Wiring Harness, 24 volt (Not Shown) (4 connectors/side) (3 or 4 product)	1
	107386	Valve Wiring Harness, 24 volt (Not Shown) (2 connectors/side) (2 product)	1
4	105660	Intrinsically Safe Barrier Module	2
	105916	Barrier Board Cover (Not Shown), Metal	2
5	106275	Conduit Assembly-Pulser and Pump Handle Wires	2
6		System Software EPROM's:	
	105843	U25	1
	106594	U30	1
7	106262	Wiring Harness to Product Select Board	2
8	105778	CPU - Circuit Board	1
	107040	Edge Liner (To protect Barrier Board from cover)	
	105904	Entire Computer Assembly (CPU, Power Distributor Board, Power Supply, Barrier Circuits & Cabling)	1

Healy Vapor Recovery Components

Part No.	Description
106879	INTERFACE MODULE, HEALY RCS120A-4222D
106878	Wire Assembly from CPU to Healy Interface Board
106798	110v Healy Pump V-1000
106758	Healy Interface Board

Service Kits

Part No.	Description
KR043601	Piston Replacement, SB-100 Meter
100965	Counter valve (Stainless Steel) Replacement, SB-100
KR042001	Rotor Replacement, Type 75 Pumping Unit
KR036604	Gasket Set, Type 75 Pumping Unit
100524	Checkvalve, Outlet-Low Hose
103490	Tool for DU Bearing Replacement
KR044601	Distributor and Diaphragm
107098	Everett Download Kit
109758	Kit Valance Conoco/Philips 2300
109759	Kit Valance Conoco/Philips 2400

Literature

Part No.	Description
105894	Horizon 2 Installation Manual
102412	Horizon 2 Operators Manual
103552	Horizon 2 Electronic Service Manual
N614501	Type 75 Pumping Unit Installation Service Manual
N895502	SB-100 Domestic Service Manual
	(An Export Service Manual is Available Upon request)
SPL1083.3	Mechanical and Hydraulic Service Manual
101011	Equipment Startup Procedures
103360	Master Parts Price List (Contact Order Entry)
108422	Audit Form (Start-up Form)
SPL1080 Rev 22	Service Literature Order Form
107697	Horizon 2 Home Study Course

