

VACMASTER® 23T TIER 4 DIESEL ABRASIVE VACUUMS





PART NUMBERS AND SCHEMATICS GUIDE

Company Profile

Allredi was formed in the early 2020, when two of the largest distributors in the blasting, coating, safety, and environmental industry, APE Companies and Marco Group International, joined forces. While the qualities both companies are known for have not changed, a lot about our business is new. New abilities. New agilities. New ways to help you win. This calls for a new name, Allredi.

This name exemplifies what we have become. It is completely oriented to the needs of our customers. To your needs. It says that when you call us for anything – products, service, expert advice, anything – you can consider it done. Or even better, Allredi done.

We are your right-now supplier. From skills to SKUs, we deliver the goods fast. So you can be more agile every minute, every day. This is who we are. This is what our new name means. Go ahead and expect excellence, because we're bringing it.

Our Mission and Vision

To be the industry's preferred partner in surface preparation solutions through unrivaled technical expertise, customer experience, product availability, and tailored service offerings.

The Allredi Difference

- Industry Experience With Allredi on your team, you have access to expertise which can only come from
 decades of industry leadership. We have organized our engineering department, production specialists, customer
 operations, and safety support into a "Center of Competence." As an Allredi customer, you have access to
 hundreds of years of cumulative experience related to your operations.
- Manufacturing Excellence Allredi is a U.S. based manufacturer of equipment for the Surface Preparation and Protective Coatings industries. Allredi's engineers benchmark the industry to ensure that we design and manufacture superior products that set the "Gold Standard" for performance, safety, and quality.
- Legendary Customer Service Allredi's legendary customer service team is staffed by friendly, highly-trained individuals who are focused on providing the highest level of product support, order accuracy, and customer satisfaction.
- **Product Availability** We stock over 10,000 SKU's and have over 45 shipping locations to serve North American and International markets for all major brands of blasting, coating, environmental, and safety equipment. Allredi is your right-now supplier, so you can keep your projects moving. From our foundation of strong relationships, we have built a nationwide network that puts vast inventory and ready service close to our customers. We provide advanced expertise, and we deliver the goods fast so you can easily access the products and services you need to me more agile every minute, every day.
- **Technology Leadership** Our website provides: Operator's Manuals, Part Numbers and Schematics Guides, SDS information, and key product features and specifications, providing access to information 24/7.

TABLE OF CONTENTS

Company Profile
Table of Contents 2
Part Numbers 3
specifications
Assembly Part Numbers and Schematics 5
Front Assembly5
Front Assembly
Rear Assembly
Right Side Front Assembly 9
Center Assembly
Right Side Rear Assembly
Left Side Front Assembly
Left Side Rear Assembly
Double Lock Valve Assembly
Fuel Tank
Fan Belt Assembly 21
Marco® Vacuum Light Bar
Pneumatic Piston Vibrators 24
Pulser System Assembly 25
Filter Bag Pulsers
Emergency-Stop Station
Compressor Assembly 29
Compressor Governor
Trailer
Wear Plates and Baffles
Hydraulic Hoses
Intake Filter Housing
Vacuum Hose Support Bracket
Hazard Identification Decals40
Maintenance Tools 44
Optional Accessories45

PART NUMBERS

	VACMASTER® 23T TIER 4 DIESEL ABRASIVE VACUUMS		
	Engine Type	Filter Style	
Part Numbers	Tier 4	Acrylic-Coated Filter Bags	Filter Bags Quantity
10106514	X	X	37



SPECIFICATIONS

Performance: MAX 3658 CFM

Filter Cartridge Style: Acrylic-Coated Filter Bags

37 Required

Filter Cleaning: Pulse System, 25–30 second intervals. Pulse Duration: 200–350 millisecond

Vacuum 27" Hg

Ducting Connections: 6" I.D. Inlet with 4" adapter

Inspection Ports: One 10" Viewable to Filters with access ports to hopper

Material Removal: Automatic Direct Dump

Blower: Rotary lobe, positive displacement with jet inlet

Engine: Diesel, Tier 4, 225 Horsepower

Fuel Capacity: Capacity: 116 Gallons Type: Diesel

Air Compressor: On Board 13 CFM

Electrical System: 12-Volt DC

Engine Protection: Engine Monitoring System with automatic shutdown

Fluid Specifications: Hydraulic Oil: H46 or equivalent, 2 gallon capacity

Diesel Fuel: See Engine Operator's Manual for type

Grease/Lubricator: Shell Alvania Grease EP or equivalent Alcohol Evaporator: Alcohol 99 Isopropyl, 32 oz. capacity

Vibrator Lubricator: 4 oz. pneumatic air tool oil Blower Oil: ROOTS™ synthetic lubricating oil

Unit Dimensions: Weight: 13,950 pounds (empty)

 Length:
 22' 4"

 Width:
 8' 2"

 Height:
 11'

 Raised Height:
 18' 8"

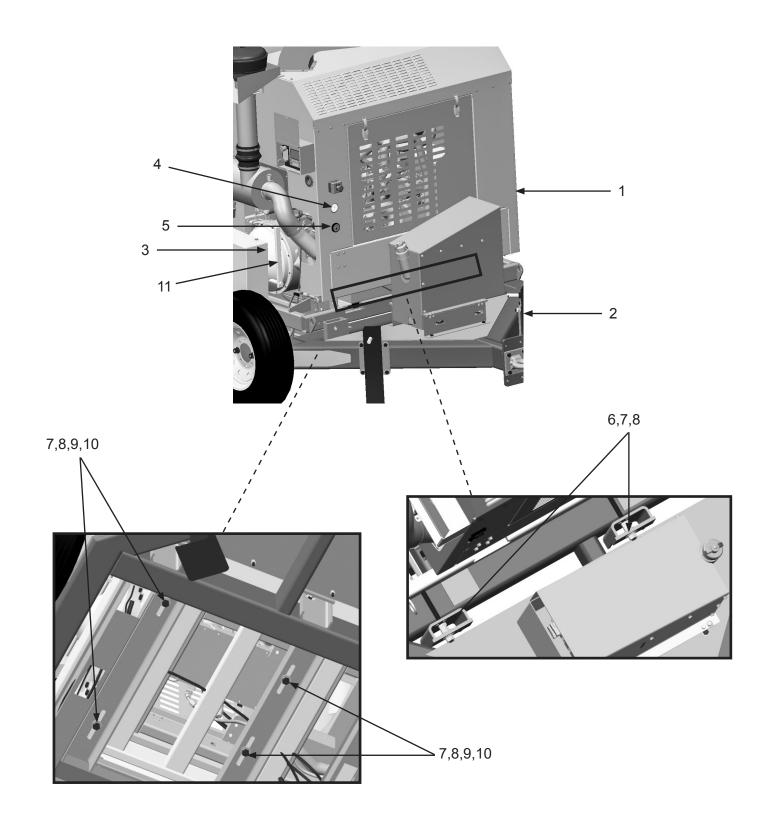
Dump Clearance: 8'

ASSEMBLY PART NUMBERS AND SCHEMATICS

Front Assembly

Item #	Part #	Description
Fig. 1		
1	10106516	Perkins Engine 225 HP Tier IV
2	10104776	20,000 lbs GVW Triple Axle Vacuum Trailer (See Figure 18)
3	10103986	Clutch
4	10104820	Panel Mount Pressure Gauge 0-160 PSI
5	10104821	Wema Analog Fuel Level Gauge
6	10103440R	3/4-10 UNC Grade 8 Draw Bolt (Two Required)
7	10103418	3/4" Washer - Grade 8 (Four Required)
8	10103420	3/4-10 UNC Grade 8 Nut (Four Required)
9	10103417	3/4-10 UNC x 1-3/4" Grade 8 Bolt (Four Required)
10	10103419	3/4" Lock Washer - HD (Four Required)
11	10104001	Shifting Lever For 10103986
	10104126	Oil Filter
_	10103970	Perkins Key
_	10106701	Primary Fuel Filter
_	10106709	Secondary Fuel Filter
_	10106707	Outer Air Filter
_	10106708	Inner Air Filter

Figure 1: Front Assembly



Rear Assembly

Item #	Part #	Description
Fig. 2		<u> </u>
1	10104673	0-50" Differential Pressure Gauge
2	10104705	3/8-16 Neck x 1" Bolt Zinc (12 Required)
3	10104665	APV Series Piston Vibrator
4	_	Dump Door (See Fig. 3,4)
5	10104411	Vacuum Hopper Cone
6	10106511	Vacuum Wear Door
7	10104638	Bulldog Trailer Jack
8	10104439	Hatch
9	10105334	Marco® Vacuum Light Bar
10	10104498	Vacuum Header
11	10104770	Blower Exhaust Silencer
12	10104771	Blower Intake Silencer
13	20PFHA60UA0406	1/4" (M) x 3/8" (F) 90° Swivel (Two Required)
14	10104667	2.5" Pneumatic Cylinder
15	10104668	Piston Rod Clevis
16	_	Dump Arm (See Fig. 3,4)
17	_	3/8-16 x 1-1/4 Hex Bolt Zinc (Four Required)
18	10101942	3/8" Flat Washer - Galvanized <i>(12 Req.)</i>
19	10101936	3/8" Lock Washer - Zinc (12 Required)
20	_	3/8-16 Hex Nut (Four Req.)
21 —	_	Dump Door Gasket Dump Door Internal Plate
22	20100160	1/2-13 x 4-1/2" Zinc Hex Bolt
23	10100674	1/2" Flat Washer (Two Required)
24	20100124	1/2-13 Hex Lock Nut - Zinc
25	20PFHA60UA0406	1/4" M x 3/8" F 90° Swivel
26	1019044	1/4-20 x 1-3/4" Zinc Bolt (Two Required)
27	1012323	1/4-20 Zinc Lock Nut with Nylon Insert (Two Required)
28	10104670	Solenoid

Item #	Part #	Description
29	1019024	Breather Vent
30	10104674	Series MPR Mini Pressure Relief
31	10L803035	1/2" Close Nipple
32	1019025	1/2" Straight Conduit Body
33	10104703	Cord Grip, 1/2" Nylon .247 Diameter
34	10104678	1/8" Pressure Gauge 100 PSI
35	1080050	1/4" Ball Valve
36	20PFHA60SG0406	1/4" (F) x 3/8" (F) Swivel Union (Two Required)
37	20PFHA60SA0406	1/4" M x 3/8" F Swivel (Two Required)
38	1014239	1/8" x 1/8" 90° Fitting
39	1011210	1/4" NPT x 1-1/2" Nipple
40	20PFHA60SA0806	1/2" (M) x 3/8" (F) Swivel Union
41	1011819	1/2" Street Elbow
42	20100571	1/2" NPT 3-Way Brass Ball Valve
43	1011818	1/2" x 1/4" Galvanized Bushing
44	10105189	Wear Door Liner
45	10105190	Wear Door
46	10101938	3/8 -16 Hex Nut Galv. (12 Required)
47	10104637	6" Bandlock Clamp
48	10106513	6" Gasket
49	10104636	6" x 90° Elbow
50	20PFHA24SA0404	1/4" Hex Nipple
51	10104502	Dump Section Gasket
52	10104503	Vacuum Discharge Tube
53	10104426	Vacuum hopper Section Gasket

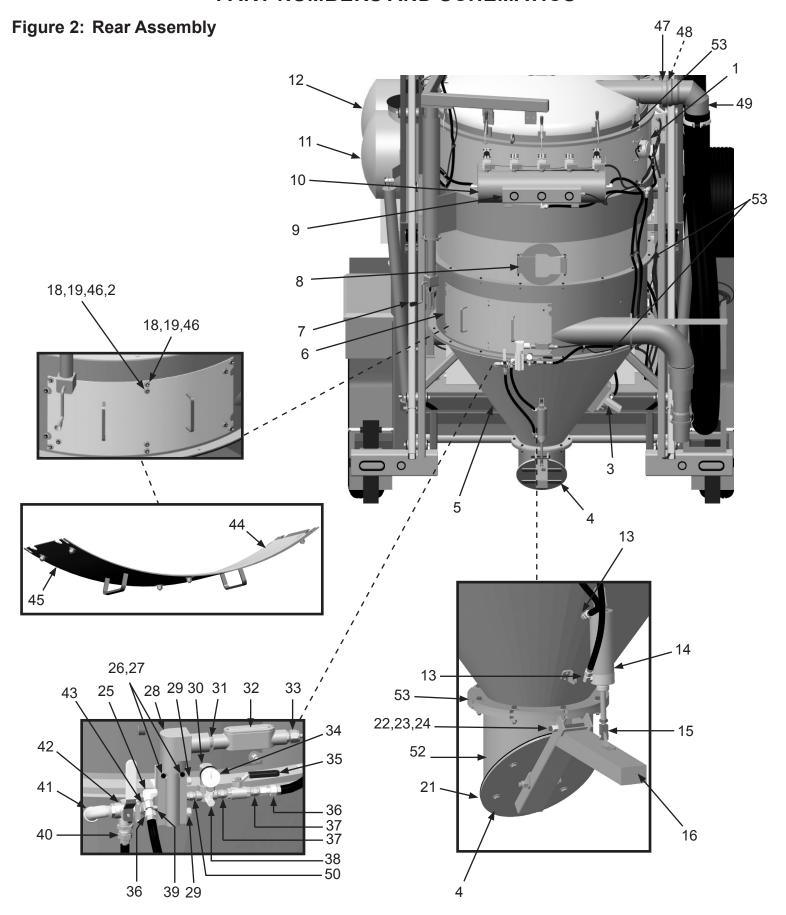
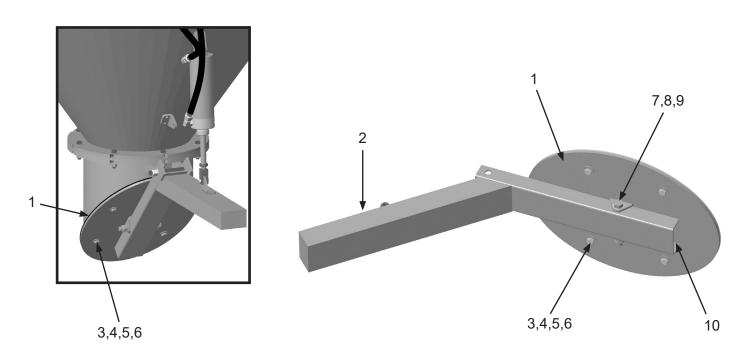
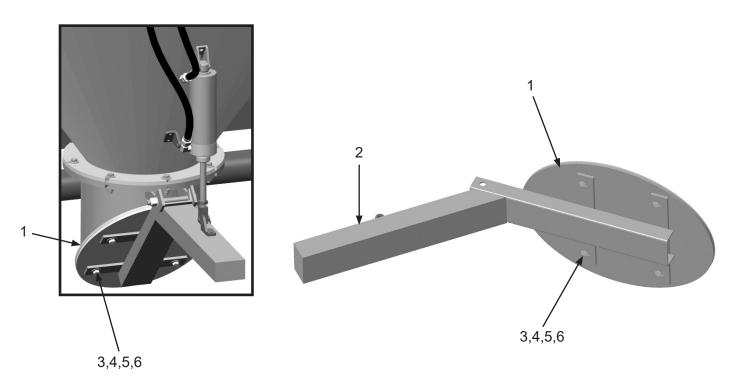


Figure 3: Dump Door Assembly (Vacuums Manufactured After 7/1/2025)



Item #	Part #	Description
Fig. 3		
1	10104512	Dump Door Gasket
—	10104511	Dump Door Internal Plate
2	10110653	Dump Arm
3	10104234	3/8-16 x 1-1/4" Hex Bolt Zinc (Four Required)
4	10101942	3/8" Flat Washer - Galvanized (Eight Required)
5	10101936	3/8" Lock Washer - Zinc <i>(Four Required)</i>
6	1012318	3/8-16 Hex Nut (Four Required)
7	20100160	1/2-13 x 4-1/2" Zinc Hex Bolt
8	10100674	1/2" Galvanized Flat Washer
9	20100124	1/2-13 Zinc Hex Lock Nut
10	10110654	Pivot Door Weldment

Figure 4: Dump Door Assembly (Vacuums Manufactured Before 7/1/2025)

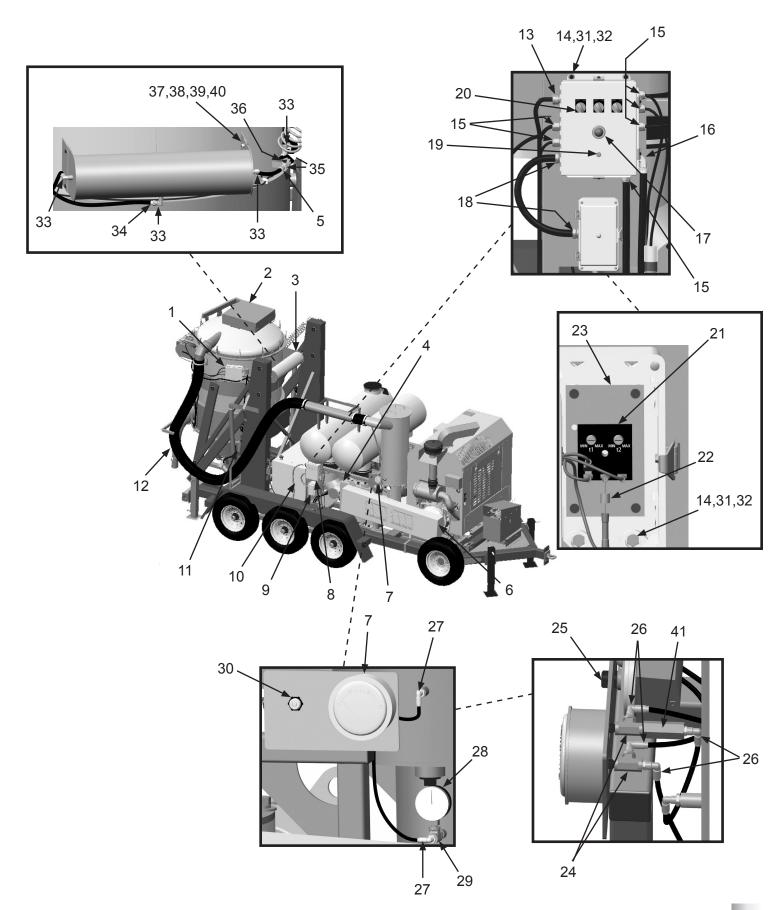


Item #	Part #	Description
Fig. 4		
1	10104512	Dump Door Gasket
—	10104511	Dump Door Internal Plate
2	10104507	Dump Arm
3	1028617	3/8-16 x 1-3/4" Shoulder Bolt (Four Required)
4	10101942	3/8" Flat Washer - Galvanized (Four Required)
5	10101936	3/8" Lock Washer - Zinc <i>(Eight Required)</i>
6	1012318	3/8-16 Hex Nut (Four Required)

Right Side Front Assembly

Item #	Part #	Description	Item #	Part #	Description
Fig. 5			26	20100579	1/4" O.D. Tube x 1/8" NPT
1	10104614	Pulse Timer Control Box			PTC Swivel
		Enclosure	07	200000424000044	(Four Required) 1/4" Tube x 1/4" NPT 90°
2	10104559	Vacuum Butterfly Cover	27	20PFBA31095614	Fitting (Two Required)
3	10104493	Vacuum Aux Header	28	10104677	Liquid Filled Vacuum
4	10104777	Blower Top Shaft Left Discharge			Gauge
5	20PFHA60SA0606	Union Swivel 3/8" (M) x 3/8" (F) (Two Required)	29	1011844	1/4" Pipe Tee - Galvanized
6	10104788	Vacuum Belt Guard Cover	30	10104073	1/2" Panel Lock Nut
7	10104673	0—50" Differential Pressure	31	10101940	1/4" Flat Washer - Galvanized (Four Paguired)
8	10104614	10" x 8" x 4" Nema 4	32	10101939	(Four Required) 1/4-20 Stainless Steel
		Enclosure	32	10101939	Lock Nut with Nylon Insert
9	10104615	8" x 4" x 5" Fiberglass			(Four Required)
10	10101701	Latch Enclosure	33	20PFHA60UA0606	3/8" (M) x 3/8" (F) 90°
10	10104704	116 Gallon Rectangle Fuel Tank			Swivel Union (Four Required)
11	10104674	Lubricator 1/2" NPT 156	34	10103631	3/8" Barb x 3/8" NPTF
		CFM	0.	10100001	Brass (Seven Required)
12	10VH620B	6" I.D. Vacuum Hose 20' Section	35	1011809	3/8" NPT Tee (Two Required)
13	1030025	1/2" Npt x .45 Diameter	36	1011209	3/8" NPT Close Nipple
4.4	00400405	Cord Grip	37	1011747	3/8-16 x 1" Bolt - Zinc
14	20100125	1/4-20 x 3/4" Zinc Hex Bolt (Eight Required)			(Four Required)
15	10104703	1/2" Npt x .2—.47	38	10101942	3/8" Flat Washer -
		Diameter Nylon Cord Grip			Galvanized (Four Required)
		(Three Required)	39	10101936	3/8" Lock Washer - Zinc
16	20RST9050	90° Liquid Tite Connection	00	10101000	(Four Required)
47	40404000	Fitting	40	10101938	3/8-16 Hex Nut -
17	10104692	12-Volt Pilot Light - Red			Galvanized (Four
18	20RST50	Straight Liquid Tite Connection Fitting			Required)
		(Two Required)	41	10108373	1/8" NPT Inline Air Filter
19	10104686	10 Amp Circuit Breaker		10106896	Blower Oil 100
20	10103305	Selector Switch - 2-Way		40400007	For below 0° F
		(Three Required)	_	10106897	Blower Oil 150 For 0 – 32° F
21	10106818	Vacuum Control Timer		10105254	Blower Oil 220
22	10104109	6 Amp 50-Volt Rectifier		10100204	For 32° – 90° F
23	10105193	Enclosure Panel	_	10106898	Blower Oil 320
24	20PFHA25VJ02	1/8" Female Tee (Two Required)			For above 90° F
25	10104672	Differential Pressure Switch			

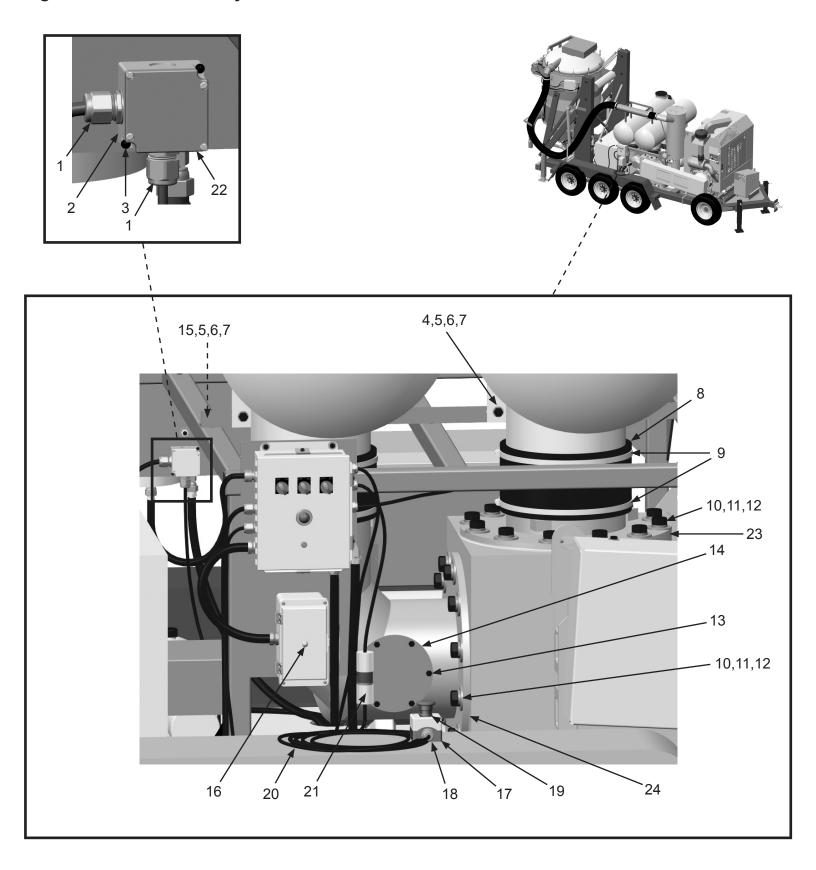
Figure 5: Right Side Front Assembly



Center Assembly

Item #	Part #	Description
Fig. 6		
1	10104703	1/2" Npt x .2—.47 Diameter Nylon Cord Grip (Two Required)
2	20000031	8-32 x 1-1/2" Machine Screw <i>(Two Required)</i>
3	10105897	Terminal Box
4	10101943	1/2-13 x 1-3/4" Hex Bolt (Eight Required)
5	10100674	1/2" Flat Washer <i>(22 Required)</i>
6	10100675	1/2" Lock Washer <i>(14 Required)</i>
7	10101941	1/2-13 Hex Nut - Galvanized <i>(14 Required)</i>
8	10104813	10-3/4 I.D. Hose (Two Required)
9	10103416	Banding Clamp (Four Required)
10	10104715	7/8-9 X 2" Grade 5 Zinc Bolt (24 Required)
11	10104716	7/8" Flat Washer - Zinc <i>(24 Required)</i>
12	10104717	7/8" Lock Washer - Zinc <i>(24 Required)</i>
13	1035045	5/16-18 x 1" Bolt (Six Required)
14	10103235	Cover
15	10101927	1/2-13 X 3" Galvanized Bolt (Six Required)
16	10108477	Led Indicator Light
17	10104071	E-Stop Control Station
18	10104703	Cord Grip Nylon 1/2"-NPT .247 Diameter
19	10104063	Legend Plate - Emergency Stop
20	1015540	16/2 Xtreme Duty Power Cord - Red
21	1015551	Male Twist Lock Plug Two Prong
22	10105897	Enclosed Terminal Block - 4 Circuit
23	10104772	Blower Intake Silencer Adapter
24	10104773	Silencer Ehaust Elbow

Figure 6: Center Assembly

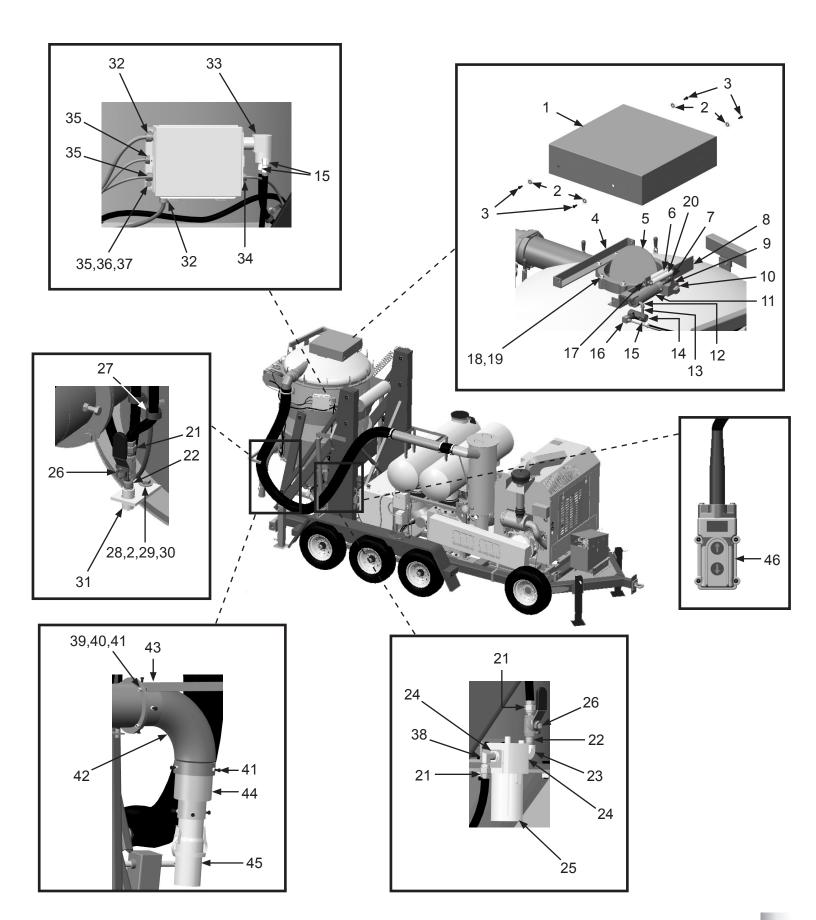


Right Side Rear Assembly

Item #	Part #	Description	Item #	Part #	Description
Fig. 7			25	10104674	Lubricator, 1/2" NPT 156
1	10104559	Vacuum Butterfly Cover			CFM
2	10101942	3/8" Flat Washer - Galvanized	26	1080060	3/8" NPT Full Port Brass Ball Valve (Two Required)
3	10103400	(Five Required) 3/8-16 x 3/4" Bolt	27	10103624	1" Rubber Cushioned Loop Clamp
4	10104554	(Four Required) Butterfly Cover Mount	28	1028617	3/8-16 x 1-3/4" Shoulder Bolt
7	10104334	Weldment	29	10101936	3/8" Lock Washer - Zinc
5	10104537	Betts 12" Butterfly	30	10101938	3/8 -16 Hex Nut
6	10107175	6.5" Extension Spring	31	10104597	Airline Drain
7	10104668	Piston Rod Clevis	32	1030025	1/2" Npt x .45 Diameter
8	10104538	Vacuum Butterfly			Cord Grip (Two Required)
		Cylinder Weldment	33	10104671	Vibrator Solenoid
9	10104543	Butterfly Actuating Arm	34	10104703	1/2" Npt x .2—.47
10	20100125	1/4-20 x 3/4" Zinc Hex Bolt			Diameter Nylon Cord Grip (Three Required)
11	10104667	2.5" Pneumatic Cylinder	35	10101939	1/4-20 Stainless Steel
12	1011824	1/4" Street Elbow			Lock Nut with Nylon
13	1011217	1/4" x 2" Nipple	36	10101940	Insert (Four Required) 1/4" Flat Washer -
14	10104669	Galvanized Solenoid For Butterfly	00	10101040	Galvanized (Four
15	20PFHA60UA0406	1/4" (M) x 3/8" (F) 90°			Required)
		Swivel (Three Required)	37	20100125	1/4-20 x 3/4" Zinc Hex Bolt (Four Required)
16 —	10105287 *10110835	Din Connector Flat Gasket Type B	38	20PFHA60UA0606	3/8" (M) x 3/8" (F) 90°
	*10110836	Type B Din Connector			Swivel Union
17	10104706	3/8-16 x 2-1/2" Thread	39	10101942	3/8" Flat Washer -
		Stud			Galvanized (Eight Required)
18	10100674	1/2" Flat Washer	40	10101938	3/8 -16 Hex Nut
19	20100124	(Eight Required) 1/2 - 13 Hex Lock Nut			Galvanized
19	20100124	(Eight Required)			(Four Required)
20	10107176	6.5" Long Extension	41	1011747	3/8 -16 x 1" Bolt - Zinc
		Spring - Zinc	40	40404540	(13 Required)
21	20PFHA60SA0606	Union Swivel 3/8" (M) x 3/8" (F) (Three Required)	42	10104546 10106732	Vacuum Inlet Elbow Heavy-Duty Inlet Elbow
22	1011209	3/8 NPT Close Nipple	43	10104496	Vacuum Inlet Insert
23	20PFHA25UG0606	3/8" Street Elbow	44	10104550	Vacuum Inlet Adapter
24	20PFHA24SB0806	1/2" x 3/8" Reducing	45	10107797	4" Quick Disconnect Coupling Assy
		Bushing (Two Required)	46	10107204	Remote Control Pendant

^{*}Both 10110835 and 10110836 required to replace Din Connector on units purchased after August 2025 and are also required with 10104669. Use 10105287 for units prior to August 2025.

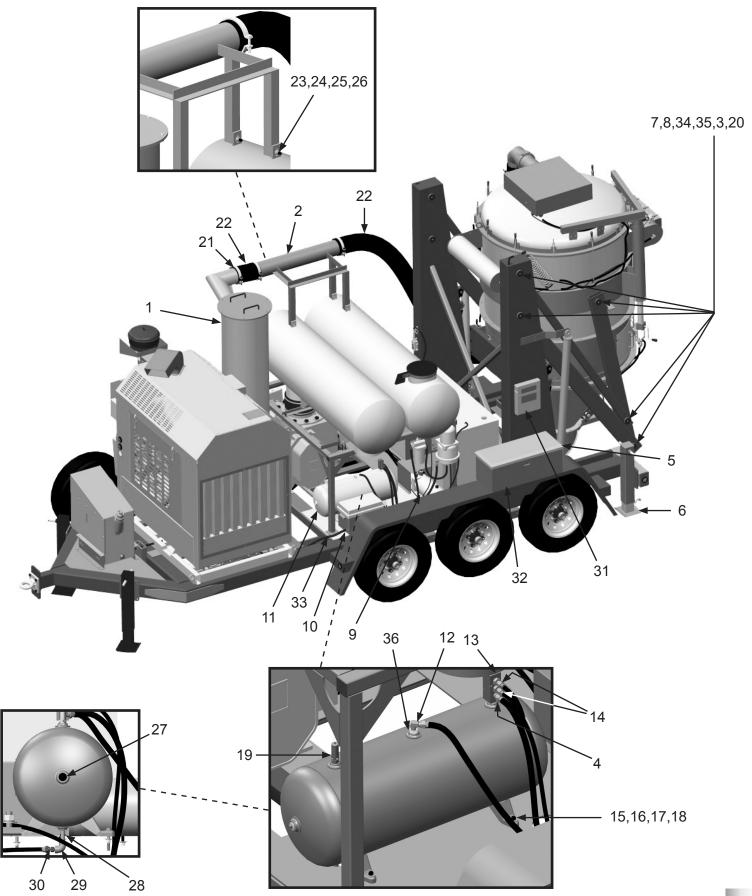
Figure 7: Right Side Rear Assembly



Left Side Front Assembly

Item #	Part #	Description
Fig. 8		
1	10104766	Intake Filter Housing
2	10104795	Tube Extension Assembly
3	10106403	3/16" x 5/8" Dowel Pin
4	20PFHA60SA0606	3/8" (M) x 3/8" (F) Swivel Union
5	10104608	Support Arm
6	10104082	Jack Stand
7	10104600	Vacuum Pin Cap
8	10104602	Vacuum Shoulder Pin
9	10105779	12-Volt DC Hydraulic Power Unit
10	10103342	Battery Box
11	10104610	Horizontal Pressure Tank - 15 Gallon
12	20PFHA60UA0606	3/8" (M) x 3/8" (F) 90° Swivel Union
13	10104618	3 Outlet Pressure Manifold
14	20PFHA60SA0604	3/8" (M) x 1/4" (F) Swivel Union (Two Required)
15	1028617	3/8-16 x 1-3/4" Shoulder Bolt (Four Required)
16	10101942	3/8" Flat Washer - Galvanized (Eight Required)
17	10101936	3/8" Lock Washer - Zinc (Four Required)
18	10101938	3/8-16 Hex nut (Four Required)
19	10104681	1/2" NPT Pressure Relief Valve
20	10101061	5/8" Lock Washer
21	10104640	6" Double Bolt Clamp
22	10VH620B	6" I.D. x 20' Vacuum Hose
23	10101943	1/2-13 x 1-3/4" Hex Bolt (Four Required)
24	10100674	1/2" Flat Washer <i>(Eight Required)</i>
25	10100675	1/2" Lock Washer <i>(Four Required)</i>
26	10101941	1/2-13 Hex Nut - Galvanized (Four Required)
27	10DSHP75	3/4" Square Head Pipe Plug (Two Required)
28	1011217	Galvanized 1/4" x 2" Nipple
29	1011832	Galvanized 1/4" 90° Elbow
30	10SME025	1/4" NPT x 1/4" (F) Straight Swivel
31	10104273	Document Holder
32	10105896	Tool Box
33	10105865	Battery Cables, 156" Long
34	10104708	Straight Grease Zerk - 1/4-28
35	10106402	5/8-11 Grease Zerk Thru Bolt
36	20PFHA24SB0806	1/2" x 3/8" Reducing Bushing
_	10103341	Battery (not shown)

Figure 8: Left Side Front Assembly



Left Side Rear Assembly

Item #	Part #	Description
Fig. 9		
1	10104234	3/8-16 x 1-1/4" Hex Bolt Zinc (Eight Required)
2	10101942	3/8" Flat Washer - Galvanized (40 Required)
3	10101936	3/8" Lock Washer - Zinc (11 Required)
4	10101938	3/8 -16 Hex Nut (11 Required)
5	10104472	Vacuum Lid Lift
6	10104434	Vacuum Top Section
7	10104638	Bulldog Trailer Jack
8	10104728	Lift Arm Support Bracket (Two Required)
9	10104729	Lift Arm Support Bracket Pin (Two Required)
10	10104608	Support Arm Outer (Two Required)
	10104605	Support Arm Inner (Two Required) (not shown)
11	10103308	Elbow - 90° - JIC 8 x SAE 10 (Four Required)
12	10104645	Vacuum Lift Cylinders (Two Required)
13	10104646	Lift Cylinder Clevis (Two Required)
14	10104647	1" x 3-1/8" Pin (Two Required)
15	1011747	3/8-16 x 1" Bolt (12 Required)
16	20PFHA24SB0806	1/2" x 3/8" Reducing Bushing (Three Required)
17	20PFHA60UA0606	3/8" (M) x 3/8" (F) 90° Swivel Union (Three Required)
18	10104611	Haldex Air Dryer
_	10106512	Desiccant Element Kit for Haldex Air Dryer
19	1012326	1/4" (M) x 1/4" (F) 90° Swivel Union
20	20PFHA60SA0806	1/2" (M) x 3/8" (F) Swivel Union
21	10104612	Haldex Alcohol Evaporator
22	10105290	3/16" x 1-5/8" Pin
23	10105838	1/2" x 168" Stainless Steel Braided Hose Assembly with 1/2" (M) NPT Ends
24	10104684	3/8" x 2' Braided Hose
25	10104683	3/8" x 4-1/2' Braided Hose
26	10104778	Silencer Mount
27	10101943	1/2-13 x 1-3/4" Hex Bolt (Four Required)
28	10100674	1/2" Flat Washer <i>(Eight Required)</i>
29	10100675	1/2" Lock Washer (Four Required)
30	10101941	1/2-13 Hex Nut - Galvanized <i>(Four Required)</i>
31	10104824	8" Raincap
32	10104709	1/2" x 3-1/2" Pin - Zinc
	10105292	Alcohol 99 Isopropyl - 16 Oz

Figure 9: Left Side Rear Assembly

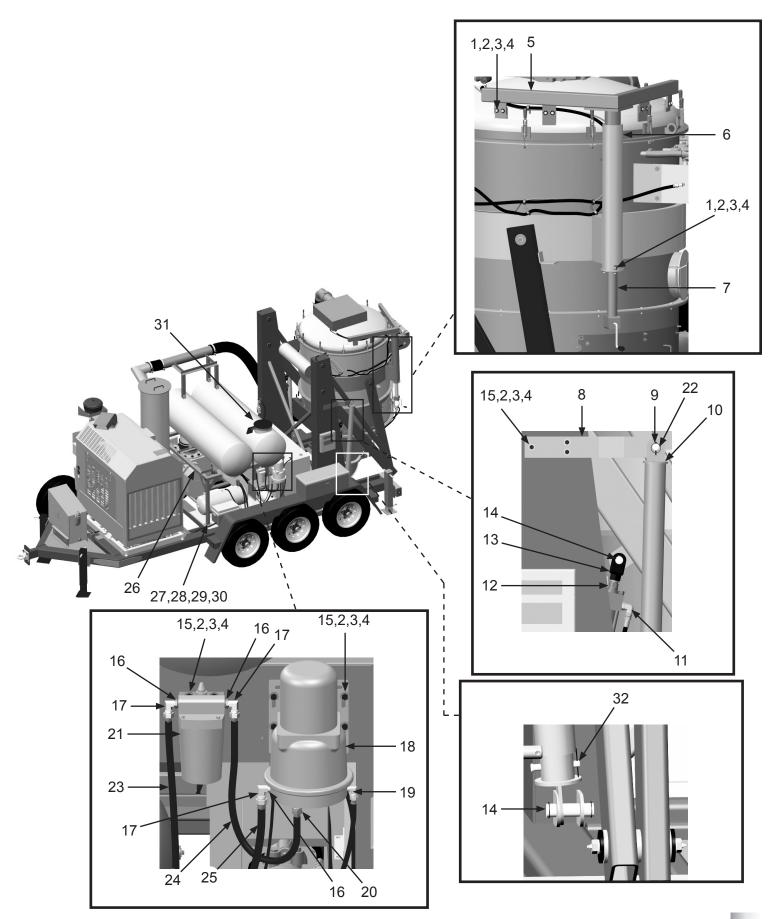


Figure 10: Double Lock Valve Assembly

Item #	Part #	Description
Fig. 10		
1	10104650	Double Lock Valve
2	10103309	Elbow - 90° - JIC 8 x SAE 8 (Two Required)
3	10105081	JIC 8 Tee (Two Required)
4	10104651	Union - Straight SAE 8 x JIC 8 (Two Required)
5	10103613	Union - Straight SAE 8 x SAE 8
6	10105288	Flow Restrictor SAE 8
7	10105286	5/16-18 x 2-1/2" Grade 5 Zinc Bolt (Two Required)
8	10L805014	5/16" Lock Washer (Two Required)
9	1035046	5/16-18 Nut (Two Required)

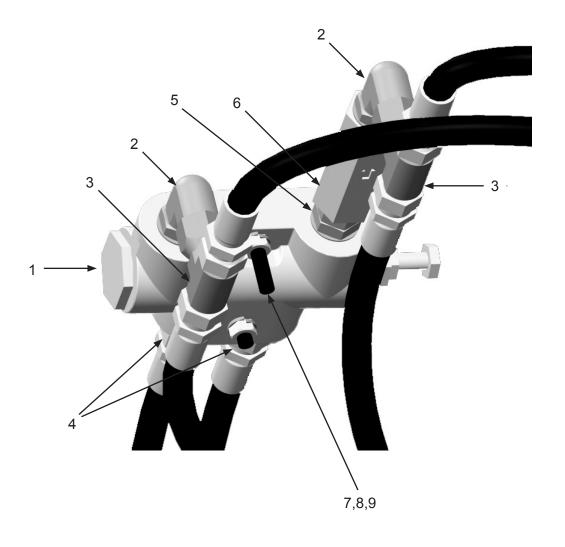
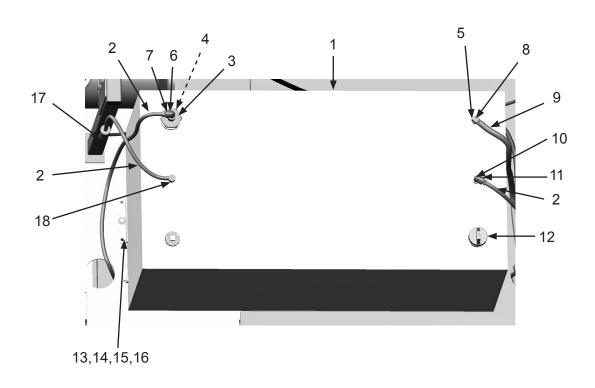


Figure 11: Fuel Tank



Item #	Part #	Description
Fig. 11		
1	10104704	116 Gallon Rectangle Fuel Tank
2	10103423	3/8" I.D. Fuel Hose (Per Foot)
3	10106484	Fuel Return Adapter
4	10106466	3/8" NPT x 18" Pipe Nipple - 304 Stainless Steel
5	10103617	Withdraw Tube - 16"
6	10106470	3/8" NPT Street Elbow - 304 Stainless Steel
7	10106469	3/8" Hose Barb X 3/8" NPT - 304 Stainless Steel
8	10106503	3/8" NPT x 1/2" Hose Barb - 304 Stainless Steel
9	10103619	1/2" Flexible Fuel Line (Per Foot)
10	10106470	3/8" NPT Street Elbow - 304 Stainless Steel
11	10106469	3/8" Hose Barb x 3/8" NPT - 304 Stainless Steel
12	10103968	Locking Fuel Cap with Keys
13	10104234	3/8-16 x 1-1/4" Hex Bolt Zinc (Two Required)
14	10101942	3/8" Flat Washer - Galvanized (Two Required)
15	10101936	3/8" Lock Nut - Galvanized
16	1012318	3/8-16 Hex Nut - Zinc
17	10103620	3/8" Inline Filter
18	20PFHA60UA0606	3/8" (M) x 3/8" (F) 90° Swivel Union
_	10104631	Fuel Tank Rubber Cushioning Pad (not shown)

Fan Belt Assembly

Item #	Part #	Description
Fig. 12		
1	10101938	3/8" Galvanized Hex Nut (Four Required)
2	10101936	3/8" Zinc Lock Washer <i>(Four Required)</i>
3	10104790	Vacuum Belt Guard Mount
4	10104793	Belt Guard Clamp
5	10101942	3/8" Galvanized Flat Washer (15 Required)
6	10104234	3/8-16 x 1-1/4" Hex Bolt Zinc (Two Required)
7	10104786	Belt Guard Back
8	1011747	3/8-16 x 1" Hex Bolt Zinc (Two Required)
9	1028617	3/8-16 x 1-3/4" Shoulder Bolt (Two Required)
10	10103486	Sheave 10.30" (Two Required)
11	10104815	4/5VP 1320 Banded Belt
12	10103485	Bushing 2.5" Bore (Two Required)
13	10103643	5/8" Key Cut (Two Required)
14	10100675	1/2" Lock Washer (Six Required) (Included with Item 12)
15	10102820	1/2-13 x 2-3/4" Grade 5 Hex Bolt (Six Required) (Included with Item 12)
16	10103400	3/8-16 x 3/4" Hex Bolt Zinc (Three Required)
17	10104788	Belt Guard Cover

Figure 12:Fan Belt Assembly

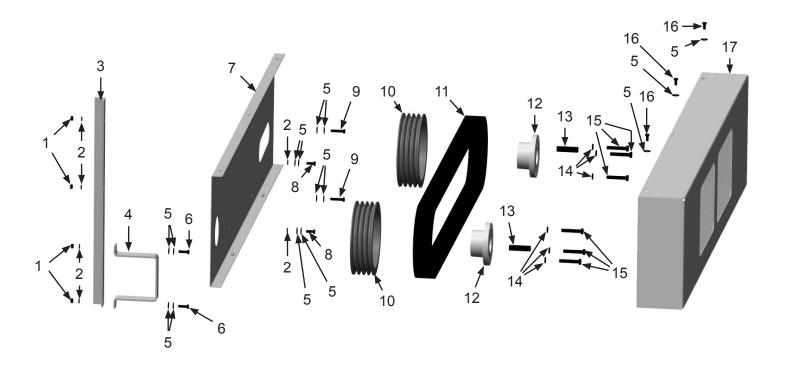
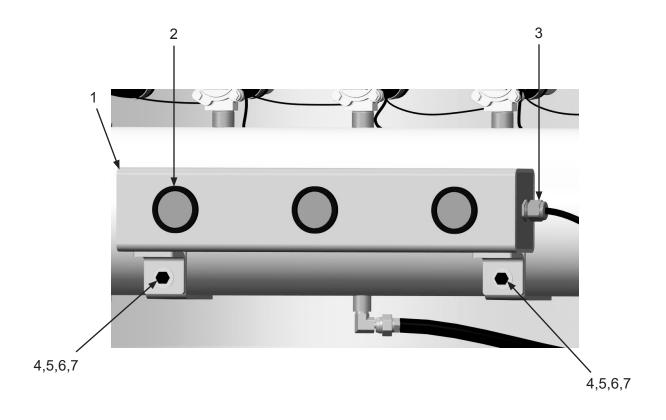
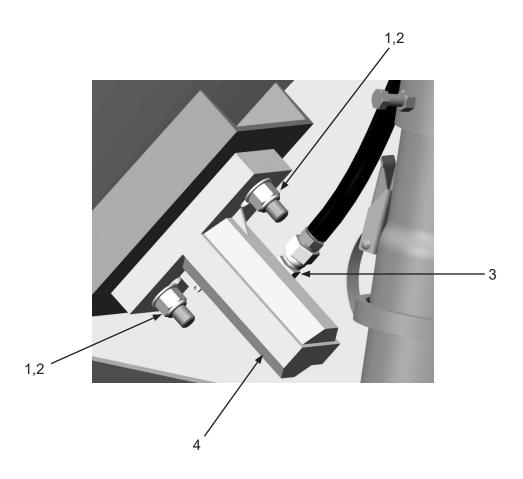


Figure 13: Marco® Vacuum Light Bar



Item #	Part #	Description
Fig. 13		
1	10105334	Marco Vacuum Light Bar (Includes Item #2)
2	10104086	2" Round LED Red Clearance Light (Three Required)
3	10104703	Cord Grip, Nylon 1/2" NPT .247 Diameter
4	10101942	3/8" Flat Washer - Galvanized (Four Required)
5	10101936	3/8" Lock Washer - Zinc <i>(Two Required)</i>
6	1011747	3/8-16 x 1" Bolt - Zinc (Two Required)
7	10101938	3/8-16 Hex Nut (Two Required)

Figure 14: Pneumatic Piston Vibrators



Item #	Part #	Description
Fig. 14	ļ	
1	20100124	1/2-13 Hex Lock Nut - Zinc (Two Required)
2	10100674	1/2" Flat Washer (Two Required)
3	20PFHA60UA0406	1/4" (M) x 3/8" (F) 90° Swivel Union
4	10104665	APV Series Piston Vibrator

Pulser System Assembly

Item #	Part #	Description
Fig. 15		
1	10101942	3/8" Flat Washer - Galvanized (Eight Required)
2	10101936	3/8" Lock Washer - Zinc (Four Required)
3	1011747	3/8-16 x 1" Bolt (Four Required)
4	10101938	3/8-16 Hex Nut (Four Required)
5	20PFHA60UA0606	3/8" (M) x 3/8" (F) 90° Swivel Union
6	10104498	Vacuum Header
7	10103736	T-Bolt Hose Clamp For 1" I.D. (10 Required)
8	10106509	Air Hose 1" ID 200 psi - Red
9	10104500	3/4" NPT x 1-1/2" Toe Nipple (Five Required)
10	10105287	Din Connector (Included with Item #16) (Five Required)
11	10104666	3/4" Diaphragm Valve with Solenoid (Five Required)
	10107192	Pilot Valve Repair Kit
	10107193	Diaphragm Repair Kit

Figure 15: Pulser System Assembly

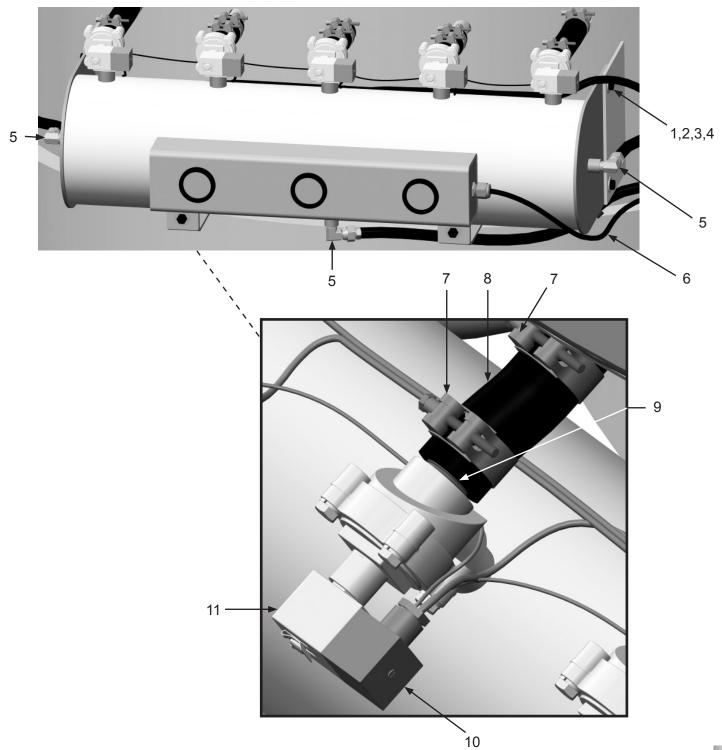
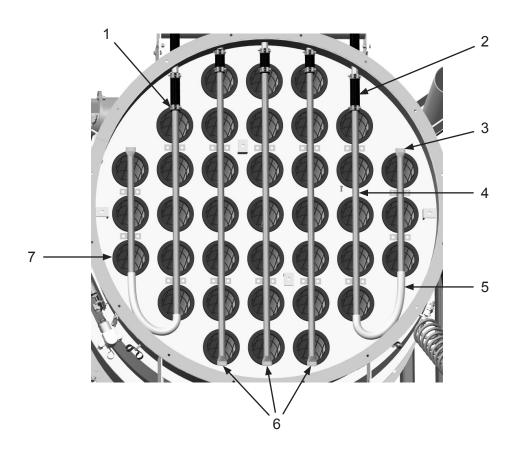
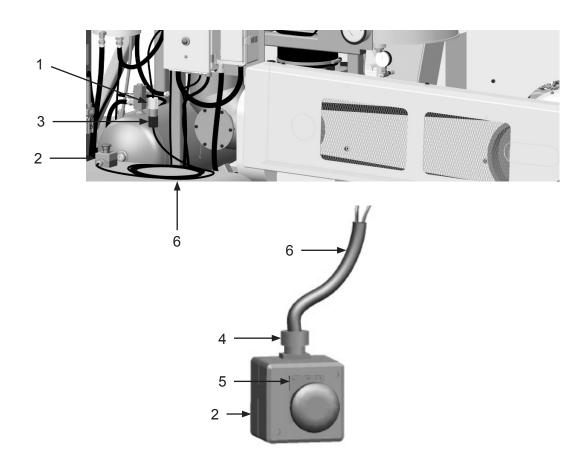


Figure 16: Filter Bag Pulsers



Item #	Part #	Description
Fig. 16		
1	10103736	T-Bolt Hose Clamp For 1" I.D. <i>(10 Required)</i>
2	10106509	1" 75W Marine Hose - 100 PSI
3	10104562	Pulser System Short Blowpipe (Two Required)
4	10104565	Pulser System Medium Blowpipe (Two Required)
5	10104680	1" Flexible Tubing For Blowpipes (Two Required)
6	10104567	Pulser System Long Blowpipe (Three Required)
7	10104633	Vacuum Baghouse Filter (37 Required)
_	10104634	Vacuum Baghouse Filter Cage (37 Required)

Figure 17: Emergency-Stop Station

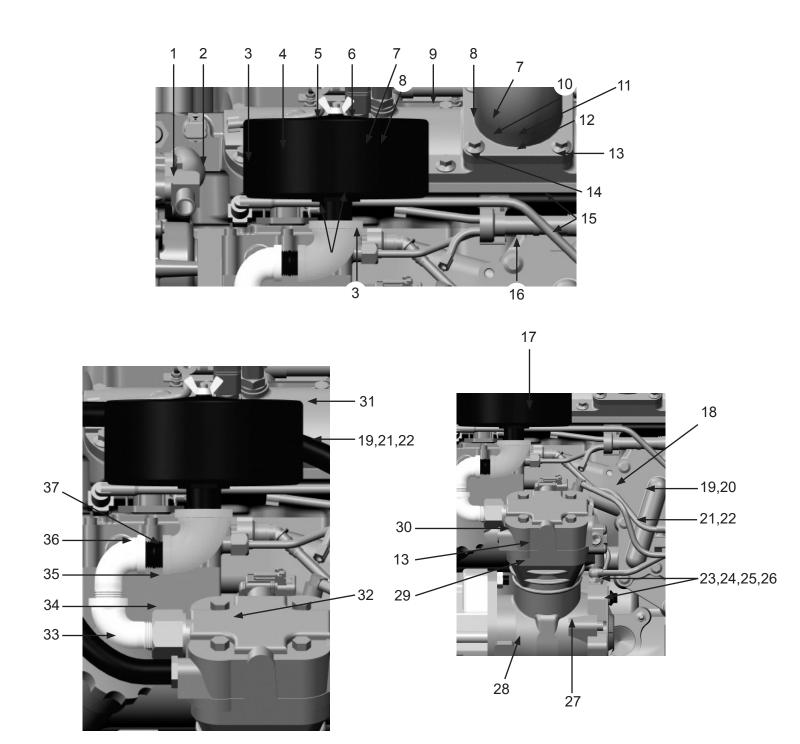


Item #	Part #	Description
Fig. 17		
_	10107200	Remote Emergency-Stop Station Includes Item #'s: 2, 4, 5, and 6 (100')
1	1015552	Female twist lock plug two prong
2	10104071	E-Stop Control Station
3	1015551	Male Twist Lock Plug Two Prong
4	10104703	Cord Grip Nylon 1/2"-NPT .247 Diameter
5	10104063	Legend Plate - Emergency Stop
6	1015540	16/2 Xtreme Duty Power Cord - Red
_	1015009	8-32 x 1" Pan Head Phillips Screw (Four Required)
_	20000021	8-32 Zinc Nut (Four Required)
_	20000018	#8 Zinc Lock Washer (Four Required)
_	20000019	#8 Zinc Flat Washer (Four Required)

Compressor Assembly

Item #	Part #	Description
Fig. 18		
1	10101062	5/8-16 Hex Nut - Galvanized
2	10106607	Compressor Gear
3	10106032	4" Centerline O-ring
4	10106605	Compressor Connection
5	10103507	1/2" Barb x 1/2" NPT F Brass Fitting
6	10106358	1/2" NPT F x M26 M Straight Adapter
7	10106604	M16-1.5 x 1/2" Barb
8	10106599	Compressor Sealing Washer
9	10106612	Compressor
10	20PFHA60SA0204	1/8" M x 1/4" F Swivel Union
11	10PAF025	1/4" x 1/4" NPT Push-on Fitting
12	10106041	1/2" NPT F x M22 M Straight Adapter
13	20PFHA60UA0808	1/2" M x 1/2" F 90° Swivel Union
14	10107487	M22 Bonded Seal
15	10106596	Compressor Bolt (Two Required)
16	10106611	Compressor Cover Plate
17	10105870	35 SCFM Compact Filter Silencer
18	10108728	Filter Mount
19	10104234	3/8-16 x 1-1/4" Zinc Hex Bolt Grade 5
20	10101942	3/8" Galvanized Flat Washer
21	10101936	3/8" Zinc Lock Washer
22	1012318	3/8-16 Zinc Hex Nut
23	1014112	5/16-18 x 3-1/4" Grade 5 Hex Bolt
24	10L805003	5/16" Zinc Flat Washer
25	10L805014	5/16" Lock Washer
26	1035046	5/16-18 Nut
27	_	Compressor Governor (See Fig. 17)
28	10AH012	1/2" I.D. Air Hose (Per Foot)
29	10103507	1/2" x 20' Hydraulic Hose - 4500 PSI
30	1011812	1" M x 1/2" F Bushing
31	10108727	Fuel Filter Mount
32	10106609	Formed Compressor Coolant Hose
33	10106614	Formed Compressor Coolant Hose
34	10107389	1/2" NPT x 1/2" Barb 90°Elbow
35	20PFHA25VJ508	1/2" F Tee
36	20PFHA24SA0808	1/2" x 1/2" Hex Nipple
37	20PFHA25UG0808	1/2" M x 1/2" F 90° Elbow

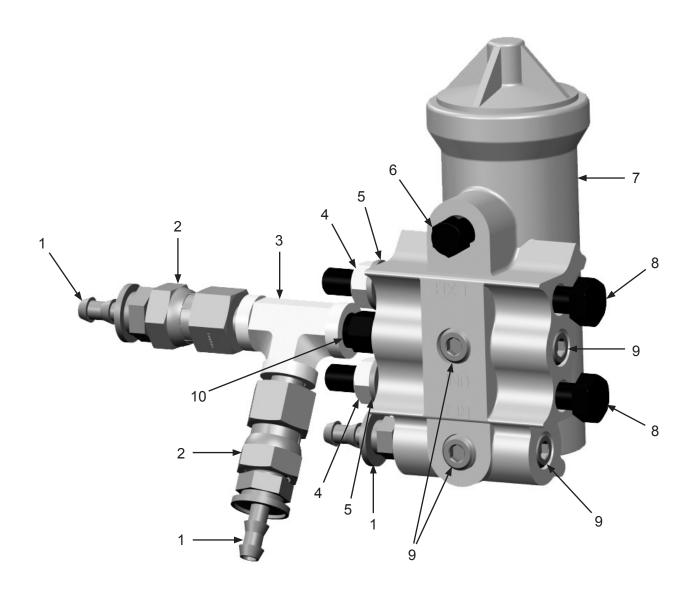
Figure 18: Compressor Assembly



Compressor Governor

Item #	Part #	Description
Fig. 19		
1	10PAF025	1/4" x 1/4" Push on Fitting (Three Required)
2	20PFHA60SA0204	1/8" (M) x 1/4" (F) Swivel Union (Two Required)
3	20PFHA25VJ02	1/8" Female Tee
4	1035046	5/16-18 Nut (Two Required)
5	10L805014	5/16" Lock Washer (Two Required)
6	1012905	1/8" Breather Muffler
7	10105816	Compressor Governor
8	1014112	5/16-18 x 3-1/4" Hex Bolt (Two Required)
9	10105717	1/8" Hollow Hex Pipe Plug Male (Three Required)
10	20PFHA24SA0202	1/8" Hex Nipple

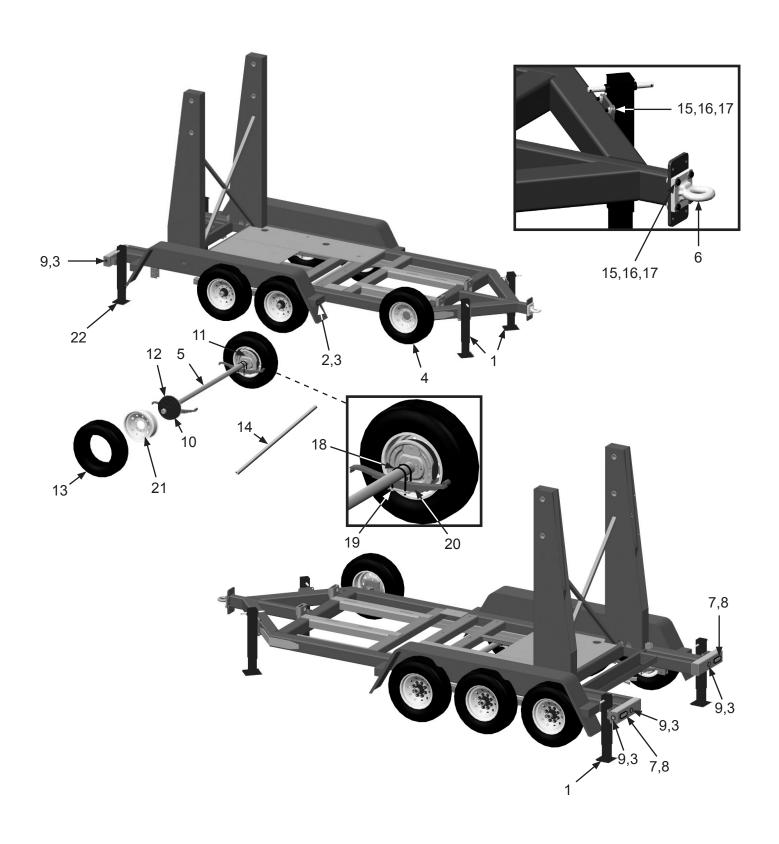
Figure 19: Compressor Governor



Trailer

Item #	Part #	Description
Fig. 20		
_	10104776	20,000 Lbs GVW Triple Axle Vacuum Trailer
1	10109737	Front Trailer Jack (Two Required)
2	10104087	2" Round LED Amber Clearance Light (Two Required)
3	10104088	2" Round Rubber Grommet (Six Required)
4	10104089	16" with 8 Hole Pattern Rim with Tire (Seven Required)
5	10106084	7,000 # Axle With Electric Brakes, Complete With Hubs And Springs 89" HF x 71" SC
6	10104079	Pintle Hitch with Flat Plate
7	10104085	Oval Rubber Grommet (Two Required)
8	10104084	Oval LED Red Tail Light (Two Required)
9	10104086	2" Round LED Red Clearance Light (Four Required)
10	10106086	Axle Hub Only - No Bearings or Seal (Two Required)
11	10106087	Left-Hand Electric Brake Assembly (Two Required)
12	10106088	Right-Hand Electric Brake Assembly (Two Required)
13	10104096	Tire - ST235/80R/16 - 10-ply (Seven Required)
14	10106085	Axle Beam/Tube Only
15	10105746	5/8 x 2-1/2" Grade 8 Bolt (20 Required)
16	10105747	5/8 Reverse Lock Nut (20 Required)
17	10103398	5/8" Flat Washer <i>(40 Required)</i>
18	10106089	Trailer Axle U-Bolt
19	10106090	Trailer Axle U-Bolt Nut
20	10106091	Trailer Axle Leaf Spring
21	10107126	16" with 8 Hole Pattern Rim
22	10106418	Rear Trailer Jack 10,000# (Two Required)
_	10105826	Redline 12V - 5AH Battery Sealed
_	10104081	Breakaway Kit
_	10104142	Wire Harness - Complete (Front, Middle & Rear)
_	10105827	Breakaway Switch with Pin
_	10104769	3/8" x 41" Safety Chain with Hook
	10103879	2" x 6" x 6" Red/White Conspicuity Tape
_	10105829	Cable With Plug
_	10105826	Redline 12V - 5AH Battery Sealed

Figure 20: Trailer



Wear Plates and Baffles

Item #	Part #	Description
Fig. 21		
1	10101942	3/8" Flat Washer - Galvanized (35 Required)
2	10101936	3/8" Lock Washer - Zinc (35 Required)
3	10101938	3/8 -16 Hex Nut (35 Required)
4	1011747	3/8-16 x 1" Bolt (15 Required)
5	10104489	Vacuum Wear Plates (Four Required)
6	10104490	Vacuum Baffle (Three Required)
7	10104705	3/8-16 FH Sq Neck x 1" Bolt Zinc (16 Required)

Figure 21: Wear Plates and Baffles

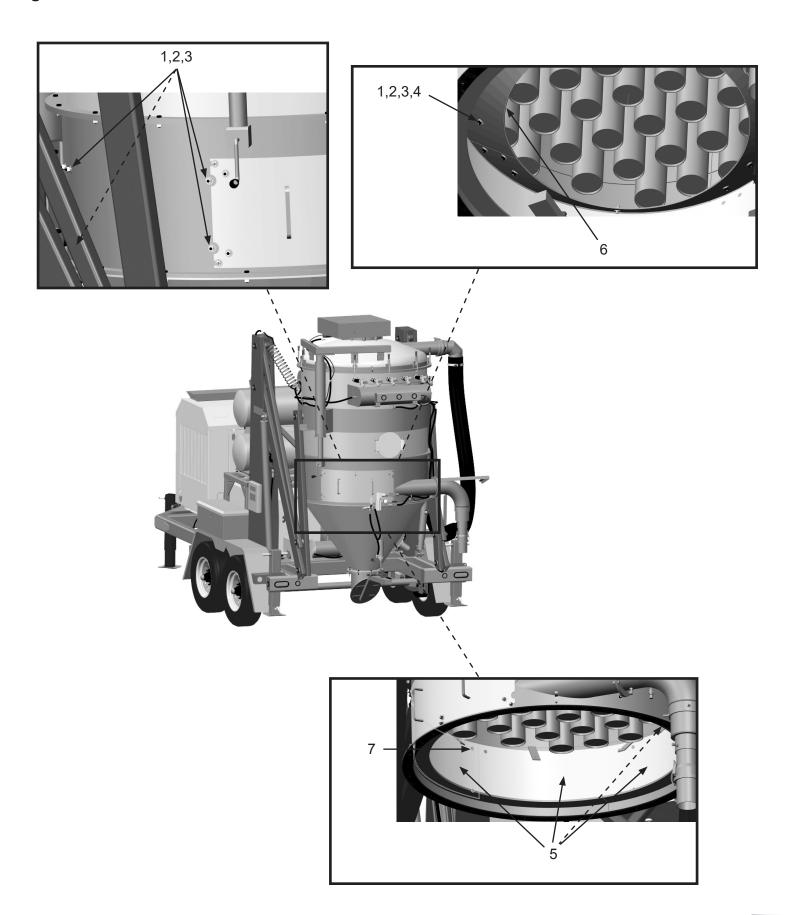


Figure 22: Hydraulic Hoses

Item #	Part #	Description
Fig. 22	2	
1	10104664	Hydraulic Hose 3/8" x 8' - 2600 PSI
2	10104663	Hydraulic Hose 3/8" x 5' - 2600 PSI

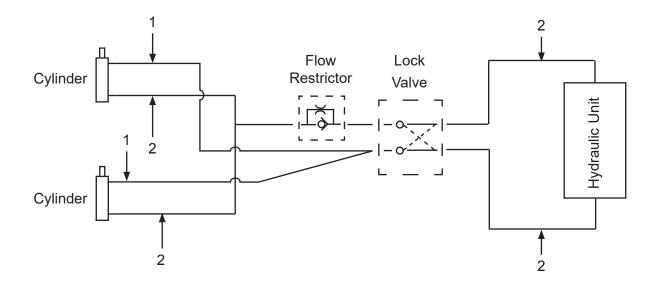
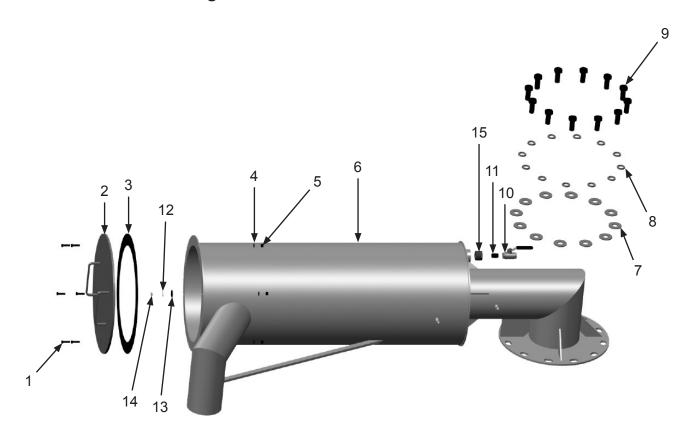
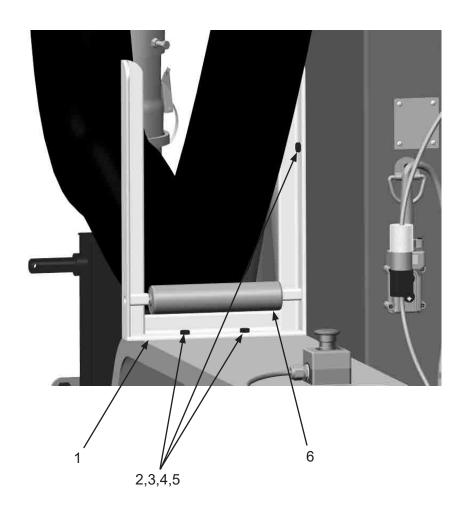


Figure 23:Intake Filter Housing



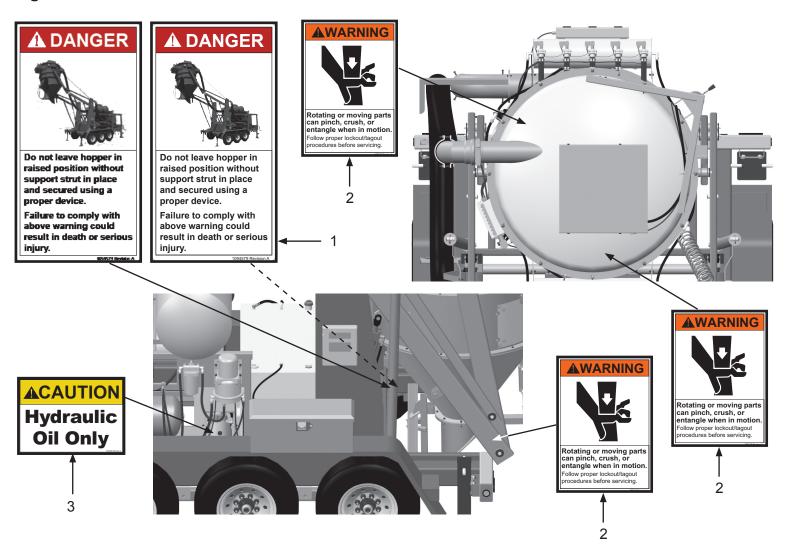
Item #	Part #	Description
Fig. 23		
1	10104234	3/8-16 x 1-1/4" Hex Bolt Zinc (Six Required)
2	10106508	Intake Filter Housing Cap
3	10104727	Air Filter Housing Gasket
4	10101936	3/8" Lock Washer - Zinc (Four Required)
5	10101938	3/8-16 Hex Nut - Galvanized (Four Required)
6	10107973	Intake Filter Housing
7	10104716	7/8" Flat Washer (Six Required)
8	10104717	7/8" Lock Washer <i>(Six Required)</i>
9	10104715	7/8-9 x 2" Zinc Bolt (Six Required)
10	10L363	1/2" NPT Full Port Ball Valve
11	10L803035	Galvanized 1/2" Close Nipple
12	10100674	1/2" Flat Washer
13	10102005	Rubber Washer 1.25 O.D. x .375 I.D. x .13
14	10101941	1/2-13 Hex Nut - Galvanized
15	1011820	1-1/4" x 1/2" Bushing - Galvanized
	10102253	Filter Cartridge

Figure 24: Vacuum Hose Support Bracket



Item #	Part #	Description
Fig. 24	1	
1	10105264	Vacuum Hose Bracket
2	1011747	3/8-16 x 1" Bolt – Zinc (Three Required)
3	10101942	3/8" Flat Washer – Galvanized (Three Required)
4	10101936	3/8" Lock Washer – Zinc <i>(Three Required)</i>
5	10101938	3/8-16 Hex Nut – Galvanized <i>(Three Required)</i>
6	10106374	1.9" Diameter Conveyor Roller – 9" Long

Figure 25: Hazard Identification Decals



Item #	Part #	Description
Fig. 2	5	
1	1094579	Hopper Position Danger Decal
2	1091135	Rotating or Moving Parts Warning Decal
3	1094540	Hydraulic Oil Caution Decal

Figure 26: Hazard Identification Decals (Cont.)

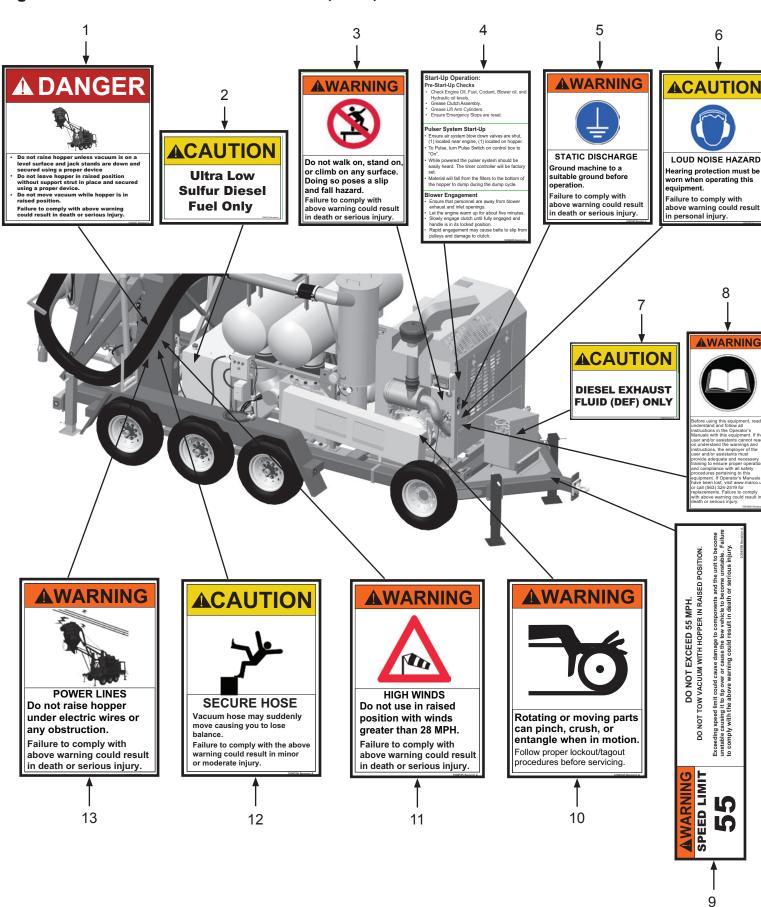


Figure 26: Hazard Identification Decals (Cont.)

Item #	Part #	Description
Fig. 26	6	
1	1094587	Do Not Raise Hopper Danger Decal
2	1094570	Ultra Low Sulfer Diesel Fuel Only Caution Decal
3	1094591	Do Not Climb On Warning Decal
4	1094609	Start-Up Operation Decal
5	1094589	Static Discharge Warning Decal
6	1094590	Loud Noise Hazard Warning Decal
7	1094569	Diesel Exhaust Fluid Only Warning Decal
8	1094546	Read Manual Warning Decal
9	1094599	Speed Limit Warning Decal
10	1094543	Rotating or Moving Parts Warning Decal
11	1094595	High Winds Warning Decal
12	1094596	Secure Hose Caution Decal
13	1094592	Power Line Warning Decal

Figure 27: Hazard Identification Decals (Cont.)



Figure 27: Hazard Identification Decals (Cont.)

Item #	Part #	Description
Fig. 27	,	
1	1094594	Do Not Open Door Warning Decal
2	1094581	No Not Vacuum Flammable Material Danger Decal
3	1094579	Hopper Position Danger Decal
4	1091135	Rotating or Moving Parts Warning Decal
5	1094580	Stay Clear Warning Decal
6	1094586	Powerful Suction Warning Decal
7	1091054	Confined Space Warning Decal

Maintenance Tools

Item #	Part #	Description
1	10HDW300969	Grease
2	10110807	Grease Gun
3	10110809	Oil Wrench - Socket Style
4	10110808	Oil Wrench - Strap Style

OPTIONAL ACCESSORIES

	VACUUM HOSE						
Part Numbers	Vacuum Hose I.D.	Length	Vacuum HG	Cover Material	Reinforcement Material	Liner	Hose Color
10VH11250	1-1/2"	50 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Black
10VH225	2"	25 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH250	2"	50 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH200	2"	100 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH2550	2-1/2"	50 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH325	3"	25 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH350	3"	50 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH300	3"	100 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH425	4"	25 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH450	4"	50 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH400	4"	100 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH525	5"	25 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH550	5"	50 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH500	5"	100 Ft.	29"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH625	6"	25 Ft.	25"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH650	6"	50 Ft.	25"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH600	6"	100 Ft.	25"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH825	8"	25 Ft.	25"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue
10VH850	8"	50 Ft.	25"	Pliovic®	Pliovic® PVC Helix	Polyurethane	Blue

OPTIONAL ACCESSORIES

Part Numbers		VACUUM HOSE REDUCERS Size	
	10106712	8" x 4"	
_	10106716	6" x 4"	
	10106872	6" x 5"	

	Part	WYE ADAPTERS
	Numbers	Size
Y	10106719	4" x 2" x 2"
Y	10107485	6" x 2" x 2"
Y	10106723	6" x 4" x 4"
	10106727	8" x 4" x 4"

	VACUUM HOSE MENDERS			
Part Numbers	Vacuum Hose I.D.	Mender Length	Thickness	Material
10HM2	2"	8"	1/8"	Steel
10HM3	3"	9"	1/8"	Steel
10HM4	4"	10"	1/8"	Steel
10HM5	5"	11"	1/8"	Steel
10HM6	6"	12"	1/8"	Steel
10HM8	8"	14"	1/8"	Steel

OPTIONAL ACCESSORIES

Part	VACUUM HOSE INSERTS	
Numbers	Size	
10104831	4"	
10104828	5"	
10104825	6"	

Part Numbers		HOSE INLET ELBOW Description
	10106732	Heavy-Duty Hose Elbow <i>(Optional)</i>

LITERATURE REFERENCES

Vacmaster® 23T Tier 4 Diesel Abrasive Vacuums

106M163	Part Numbers & Schematics Guide – Vacmaster® 23T Tier 4 Diesel Abrasive Vacuums
1090163	Operator's Manual – Vacmaster® 23T Tier 4 Diesel Abrasive Vacuums
109V567	Operator's Manual – Perkins [®] Engine
109V520	Operator's Manual – Blower
109V040	Operator's Manual – Hydraulic Motor
109V582	Operator's Manual – Behnke Trailer

MAINTENANCE NOTES

DATE	TYPE OF SERVICE	PART NUMBER

MAINTENANCE NOTES

DATE	TYPE OF SERVICE	PART NUMBER

MAINTENANCE NOTES

DATE	TYPE OF SERVICE	PART NUMBER



ALLREDI THERE

Serving these industries: Bridge, Pipeline, Tank & Tower, Concrete Services, Rail, Shipyard & Marine, Pools & Fountains, and Foundry

UNITED STATES

 Pasadena, TX (Headquarters)
 Duluth, GA

 844.361.7038
 800.535.4564

 Beaumont, TX
 Gonzales, LA

 409.722.1284
 225.647.7575

 Bristol, PA
 Harvey, LA

 215.826.8080
 504.367.8090

 Corpus Christi, TX
 Houma, LA

 361.887.2038
 985.580.4273

 Davenport, IA
 Lafayette, LA

 563.324.2519
 337.267.1440

Deer Park, TX Theodore, AL (Service & Rental Location) 251.338.7525 281.930.0905

WWW.ALLREDI-US.COM / 800.252.7848 WWW.ALLREDI-CA.COM / 800.661.3842

Allredi™ and Marco® are registered trademarks of Allredi, LLC.
Mod-U-Blast® is a registered trademark of Allredi Blast & Abrasives Canada, Inc.
All other brand names or marks are used for identification purposes and are trademarks of their respective owners.

CANADA

Calgary, Alberta 403.279.1924

Coquitlam, BC 604.464.6979

Edmonton, Alberta 780.468.2588 (Manus) 780.425.5510 (Mod-U-Blast)

Hamilton, Ontario 905.527.6000 / 888.794.5665

Mississauga, Ontario 905.890.5837

Winnipeg, Manitoba 204.256.3324

