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Subsidiary of Federal Signal Corporation



VACTOR®
HXX
VACUUM EXCAVATORS

Solutions

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FS Solutions is a fully integrated provider of used equipment, repair service, parts and rentals serving members of Federal Signal's Environmental Solutions Group of companies, including Guzzler, Vactor and Jetstream.

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FS Solutions centers are staffed with skilled, factory-trained technicians who can deliver a range of support services and products.

- High performance parts for most any make and model
- Wide range of accessories for industrial cleaning operations
- Equipment, pumps and blower repair and rebuilding services
- Unit repair, including bumper-to-bumper refurbishing
- Equipment rentals and large selection of completely refurbished vacuum loaders
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Discover the Ultimate in Industrial Vacuum Technology

Guzzler is known worldwide for its high-performance vacuum loaders featuring advanced engineering, robust construction and operating simplicity. With the industry's most extensive range of vacuum loader models and options, Guzzler can offer you the perfect solution for today's challenges in industrial and environmental clean-up and recovery operations.



Guzzler Industrial Vacuum Loading

- Cleaning up or recovering full spectrum of materials
- Vacuum solids and bulk powders to liquids, slurries, sludge
- Loading and offloading options – including batch and continuous
- Load into rail cars, dump trucks, bins, silos
- Conveyance of dry bulk or powder material up to 125' vertically
- Simple to operate, simple to maintain, built to last



Safe. Smart. Reliable. Vactor HXX Vacuum Excavators for Non-destructive Excavation

Vactor Manufacturing is the world's leading manufacturer of sewer and catch basin cleaners, setting industry standards for moving air and water safely and efficiently. This expertise also embraces advanced vacuum technology for industrial applications, including non-destructive vacuum excavation to quickly remove loosened soil and debris.



Vactor HXX HydroExcavator — for bigger jobs:

- Larger pipeline installations
- Big volume excavations
- 12 yard debris body
- Choice of fan or PD

Vactor HXX Prodigy — mid-sized vacuum excavator:

- Pot holing
- Slot trenching
- Precision excavating
- Water or optional air excavation
- 6 or 9 yard debris body

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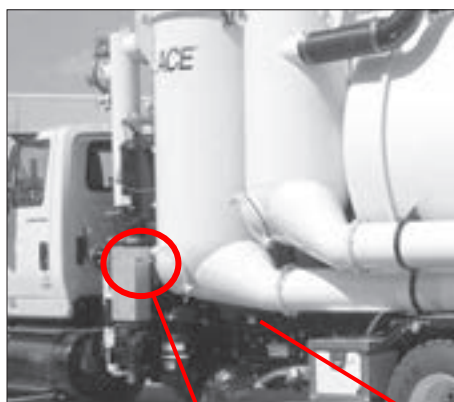
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Locate Your Unit Identity Plate

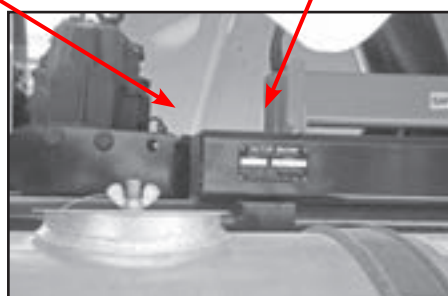
This page will help you locate the identity plate that contains your unit's Model No. and Serial No. Locate this information now and insert it in the appropriate blanks within the Guzzler or HXX name plates below. That way, it will always be readily accessible to help ensure you get the right components and parts on every order.

GUZZLER ACE/CLASSIC

Location is the same on all versions.

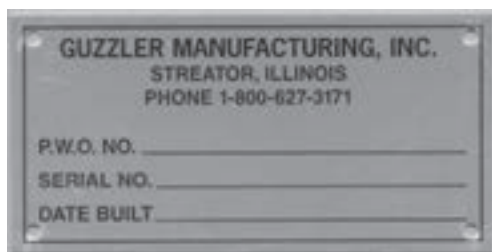


Aluminum control box location

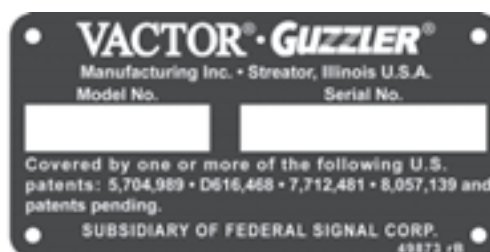


Composite control box location

Note: 2011 and newer units all have the tag in the same general location on the driver side on the front part of the subframe. Options may obscure direct viewing.



Old style



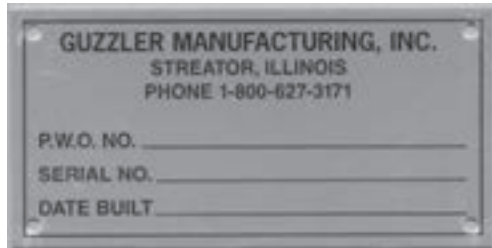
New style

Call us if you have a problem locating the identity plate.

GUZZLER NX



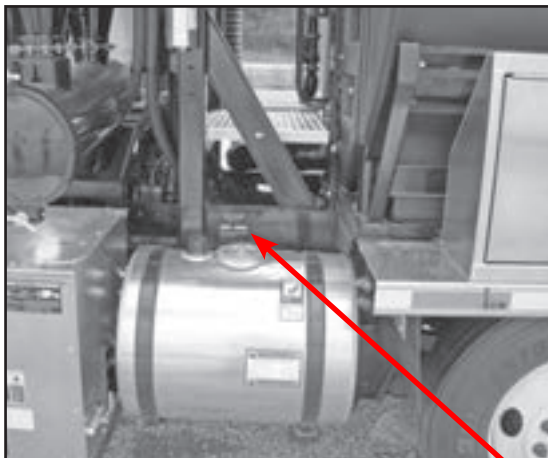
Location on new units on front of housing.



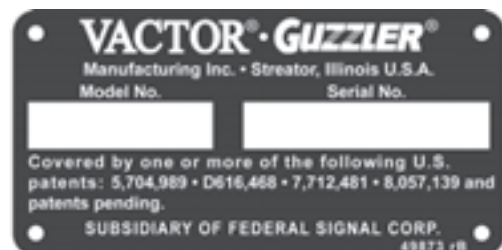
Location on older units in lower right hand corner of housing.



HXX



General location of Serial No. Plate for HXX units is on the driver side on the front part of the subframe. Options may obscure direct viewing.



Guzzler and FS Solutions are your partners in working smart and safe

All manuals pertaining to unit operation and safety can be ordered using the part numbers shown. These part numbers are for all 2006 units and newer. All older units, or units not listed, should be ordered under Part No. 500655.

Model and serial numbers are required when ordering (see "locate Your Unit Identity Plate" on vii).

Part No.	Manual	Description
500646	Vactor/Guzzler Safety	
500647	WJTA Waterblast Safety	
500650	Guzzler Off-loading options	2006 and newer. Covers ACE, Classic and NX options.
500651	Ramjet	2006 and newer. Covers all models and normal options.
500654	Guzzler ACE and Classic	2006 and newer. Covers all models. Liquid ring models are now an option section.
500655	Replacement Manual	Use this number for all units prior to 2006 or not listed here. Requires model and serial number. Also note if in Spanish.
500657	WJTA Recommended Practices for The Use of Industrial Vacuum Equipment	Available January 2008
503081	2100 Blower	2006 and newer. Includes all normal options.
503082	2100 Fan	2006 and newer. Includes all normal options.
503085	GRV	2006 and newer. Covers model with fluid coupling drive.
503086	2103 Spanish	2006 and newer. Includes all normal options.
503087	2103	2006 and newer. Includes all normal options.
503088	I-12000 Fan	2006 and newer. Includes all normal options.
503089	I-600 Blower	2006 and newer. Includes all normal options.
503090	HXX Fan	2006 and newer. Includes all normal options.
503091	HXX Blower	2006 and newer. Includes all normal options.
503095	Guzzler NX	2006 and newer. Includes all normal options.
503096	HXX Prodigy	2006 and newer. Includes all normal options.
503223	2100 Operator Training Book	Covers blower and fan operation, service and maintenance and most options but no parts. Includes safety manual. Printed in black and white and bound in a report cover. Excellent low cost manual to leave in the unit for reference.
88385#	Chassis Manuals	88385# series, see system for all.
KH0026C	Predator (Liquid Vacuum Truck)	2009 and newer. Includes all options.

Safety

The one-stop resource for today's best and most popular safety equipment for use in industrial vacuum operations. From personal protective clothing to safety manuals, we've got you covered! (See page U-1 for Safety Supplies)

**NOTICE**

Always follow recommended safety practices while performing service work. The Vactor/Guzzler Safety Manual can be ordered using the part number shown on this page.

What's in a title?

More than you think! For example, did you know that the **WJTA Recommended Practices for the Use of Industrial Vacuum Equipment** manual (Part No. 500657) covers injury and medical response instruction, situations involving damage and/or explosions, pre-job preparations and safe working practices, properly executing loading/off-loading operations, plus insight into regulations and certifications.

Notes:

Air leaks in hose connections, inlet connections and around gaskets can disrupt your entire vacuum operation. Air leaks can cause excess baghouse loading, greater fuel consumption, and poor pickup performance at the end of the hose. Air leaks decrease the air velocity at the end of the hose causing material to “fall out” in the hose where material buildup may eventually clog the hose. By using the highest quality hoses and connections, you will help prevent air leaks and keep your vacuum operation running at optimum efficiency.

Tuff Guzz Hose

Rugged, flexible, smooth-bore rubber vacuum hose with helix coil. Rated to 27" Hg.

Temperature range: -40° to 220°F (-40° to 104°C)

Part No.	Description
1280403	4" x 20' (101 mm x 6.1 m) hose only
1280404	6" x 10' (152 mm x 3 m) hose only
1280489	6" x 14' (152 mm x 4.3 m) hose only
1280694	6" 17'6" (152 mm x 5.3 m) hose only
1280405	6" x 20' (152 mm x 6.1 m) hose only
1280406	8" x 10' (203 mm x 3 m) hose only
1280419	8" x 20' (203 mm x 6.1 m) hose only



Tuff Guzz Hose Assembly

Part No.	Description
1280414	4" x 20' (101 mm x 6.1 m) with male & female hose ends
1280415	6" x 10' (152 mm x 3 m) with male & female hose ends
1280416	6" x 20' (152 mm x 6.1 m) with male & female hose ends
1280417	8" x 10' (203 mm x 3 m) with male & female hose ends
1280418	8" x 20' (203 mm x 6.1 m) with male & female hose ends
1280489	6" x 14' (152 mm x 4.3 m) used on XCR Cyclone units with male & female hose ends
1280694	6" x 17'6" (152 mm x 5.3 m) used on XCR Cyclone units with male & female hose ends



Green Monster Hose

Heavy-duty, abrasion-resistant, smooth-bore, 3/8" (9.53 mm) gum rubber-lined hose with helix coil. Rated to 27" Hg. Temperature range: -40° to 220°F (-40° to 104°C)

Part No.	Description
1280461	4" (101 mm) x (sold per foot) used in high-abrasion applications.
1280920	6" (152 mm) x (sold per foot) used in high-abrasion applications.
1280463	8" (203 mm) x (sold per foot) used in high-abrasion applications. Recommended for boom and port hole tail hose.



Green Monster Hose Assembly

Part No.	Description
1280460	4" x 20' (101 mm x 6.1 m) with male & female hose ends
1280928	6" x 6' (152 mm x 1.8 m) with male & female hose ends
1280691	6" x 10' (152 mm x 3 m) with male & female hose ends
1280691A	6" x 20' (152 mm x 6.1 m) with male & female hose ends
1280882	8" x 5' (203 mm x 1.5 m) with chain & irregular hose ends
1280582	8" x 8' (203 mm x 2.4 m) with male & female hose ends
1280458	8" x 10' (203 mm x 3 m) with male & female hose ends
1280463J	8" X 16' (203 mm x 4.9 m) with male & female hose ends
1280757	8" x 20' (203 mm x 6.1 m) with male & female hose ends



180 AR Hoses

Heavy-duty abrasion-resistant suction hose handling abrasives such as crushed rock, sand, pea gravel, cement powder, dry fertilizer, iron ore and grains. Temperature range: -40° to 158°F (-40° to 70°C).

Construction:

- SBR rubber blended with static, carbon-black, rigid PVC helix coil
- Smooth-bore
- Corrugated O.D.

Features:

- Lightweight and flexible
- Static dissipating
- Extremely abrasion-resistant
- Rated to 27" Hg

AR Kanaflex Hose

Part No.	Description
1280229	4" (101 mm) x (sold per foot) - 180 AR
1280228	6" (152 mm) x (sold per foot) - 180 AR



AR Kanaflex Hose Assembly

Part No.	Description
1280343	4" x 20' (101 mm x 6.1 m) - 180 AR with male & female hose ends
1280344	6" x 10' (152 mm x 3 m) - 180 AR with male & female hose ends
1280345	6" x 20' (152 mm x 6.1 m) - 180 AR with male & female hose ends
1280230	6" X 25' 152 mm x 7.6 m) - 180 AR with male & female hose ends
501001	10" x 4.5' (253 mm x 1.4 m) - 180 AR with male & female ends



180 HR Hoses

Heavy-duty, abrasion-resistant suction hose for applications where higher temperatures and abrasion are factors such as handling of fly ash, crushed rock, sand, pea gravel or cement powder. Temperature range: -40° to 220°F (-40° to 104°C).

Construction:

- EPDM rubber
- Polyethylene helix
- Metal helical wire
- Smooth-bore

Features:

- Lightweight and flexible
- Integral wire helix can be grounded
- Provides easy drag

HR Kanaflex Hose

Part No.	Description
1280346	4" (101 mm) x (sold per foot) - 180 HR
1280347	6" (152 mm) x (sold per foot) - 180 HR
1280315	8" (203 mm) x (sold per foot) - 180 HR

HR Kanaflex Hose Assembly

Part No.	Description
1280339	4" x 20' (101 mm x 6.1 m) - 180 HR with male & female hose ends
52350	6" x 10' (152 mm x 3 m) - 180 HR with male & female hose ends
1280341	6" x 20' (152 mm x 6.1 m) - 180 HR with male & female hose ends
1280669	8" x 8' (203 mm x 2.4 m) - 180 HR with male & female hose ends
1280464	8" x 10' (203 mm x 3 m) - 180 HR with male & female hose ends
1280636	8" x 20' (203 mm x 6.1 m) - 180 HR with male & female hose ends



Plastic Hose

Lightweight, plastic disposable hose designed for use as the last section of hose to which the vacuum nozzle is attached.

Part No.	Description
1280122	4" (101 mm) x (sold per foot) black plastic. Comes in 100' (30.4 m) sections.
1280188	6" (152 mm) x (sold per foot) black plastic. Comes in 100' (30.4 m) sections.
1280188A	6" (152 mm) smooth-bore plastic. Sold in 20' (6.1 m) sections.
1280122A	4" (101 mm) x (sold per foot) yellow plastic. Comes in 100' (30.4 m) sections.
1280188C	6" (152 mm) x (sold per foot) yellow plastic. Comes in 100' (30.4 m) sections (Fig. 1)
1280189	8" (203 mm) x (sold per foot) black plastic. Comes in 20' (6.1 m) sections.

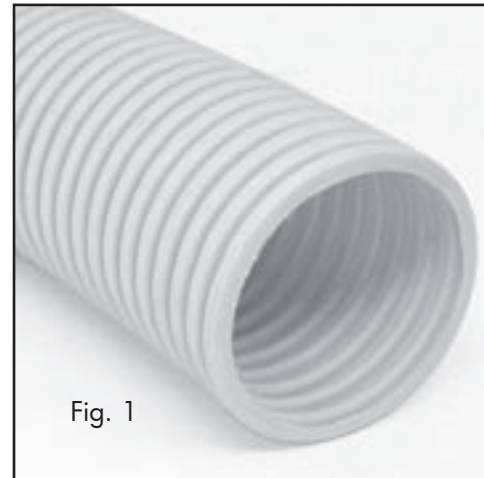


Fig. 1

The yellow plastic hose is longer lasting and more durable than the black plastic hose.

Metal Flex Hose

Composed of galvanized steel, this heavy-duty, abrasion-resistant, rough-bore, flexible hose should be used when vacuuming high temperature materials. Maximum operating temperature: 500°F (260°C).

Part No.	Description
1280367	Hose 4" x 25', galvanized interlock metal flex w/o ends.
1280600	Hose 6" x 25', galvanized rough bore metal flex, 500 Deg. F
40732A	4" x 25' (101 mm x 7.6 m) with ends — comes in 25' (7.6 m) sections with ends.
1280862A	6" x 25' (101 mm x 7.6 m) with ends — comes in 25' (7.6 m) sections with ends.
1280822A	8" Hose 8", steel flex.

Related Items

See Section F for recommended Nozzles or hose-handling accessories.



Boom Hose

Smooth-bore boom hose used on Guzzler Ramrodder units.

Part No.	Description
1280166	8" x 54" (203 mm x 1371 mm)
1280457	8" x 24" (203 mm x 609 mm)
54428C	8" x 60" (203 mm x 1.52 m) assy. redlined
47394	10" x 10' hose
46449	10" x 66"



Debris Hose

Part No.	Description
70404E	8" x 34" (203 mm x 863 mm) red rubber, gum-lined (HXX Units)
43958A	8" x 136" (203 mm x 3.45 m) red rubber hose, gum-lined (extendable boom - HXX Units)
46564D	8" x 60" (203 mm x 1.52 m) red rubber, gum-lined (telescopic boom - HXX Units)
70404H	8" x 37" (203 mm x 940 mm) red rubber, gum-lined (HXX Units)
46564	8" x 62" (203 mm x 1574 mm) standard rubber
70404M	8" x 37" (203 mm x 940 mm) red rubber, gum-lined, 30" HG
70404F	8" x 18" (203 mm x 440 mm) red rubber, gum-lined, 30" HG
46564G	8" x 62" (203 mm x 1.57 m) red rubber, gum-lined
46564N	8" x 60" (203 mm x 1.52 m) Dura-Shield
501077B	12" x 21" (305 mm x .53 m) rubber



SafeVac Combo Hose

Part No.	Description
1287037	9.25" x 60" w/ special cuff (For Boom)

Expansion Joint

Requires double bolt clamp (see Section E)

Part No.	Description
1250191	8" (203 mm) Flex-fast — 27" Hg maximum vacuum
1250028	10" (254 mm), 11.8125" OD x 10.8125" ID (300 mm x 274.6 mm)
1250029	12" (305 mm), 13.875" OD x 12.875" ID (352.4 mm x 327 mm)



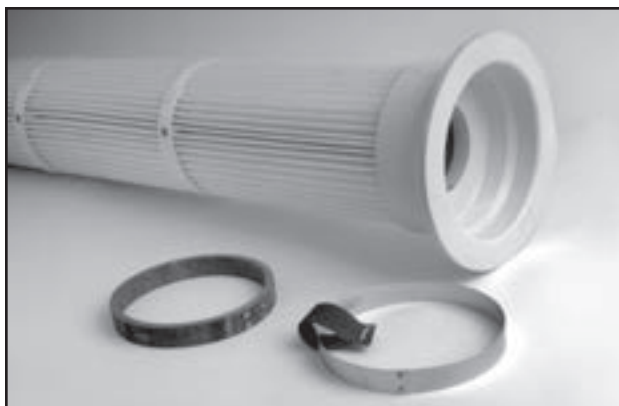
Notes:

Keep filter bags clean and free of tears for effective and efficient filtration. Faulty bags can produce premature blower wear from heat and debris. Guzzler's complete line of filters for wet and dry applications provide effective solutions to meet the ongoing changes in regulations and environmental issues. Always use factory recommended filtration to ensure long product life.

Cartridge Filter Advantages:

Formed-in-place, cartridge filters feature anchored pleat tips to ensure evenly spaced and straight pleat alignment – critical to proper cleaning and dust discharge. Cartridge filters also offer many other advantages over conventional filters:

- require less air pressure to pulse clean
- operate across a wide range of temperatures and applications
- 2-3 times more filtration area
- dramatically reduce air-to-cloth ratio
- reduce operating pressure differential
- substantially reduce installation time



Changing Filter Bags and Cartridge Filters —

The filters inside the baghouse are one of two types – 1) plain cloth filter, or 2) pleated cartridge filter. Both kinds of filters require certain steps that must be followed when changing.

Use the top access door to change either filter type.

1. Open the baghouse door on either type unit. The door can be opened by releasing the latches on each side of the door. Lift up on the latch handle. Now the door can be raised from its horizontal position to a vertical position. It will come to rest in a nearly vertical position.
2. Raise the blow pipe to a vertical position so as to allow access to the filters. The blow pipe is hinged on the far side.
3. Follow the steps below for either Plain Cloth Filter Bags or Pleated Cartridge Filters:

Plain Cloth Filter Bags

- 1) The top of the filter bags can now be viewed. Inside each bag, a metal cage stretches the length of the filter to keep the bag from collapsing during vacuuming operations. Lift the cage straight up so as to clear the filter bag. Set the cage aside.
- 2) Remove the snap ring bag from the tube sheet by pinching the ring partially closed so it can collapse, fall through the opening, and land in the bottom of the baghouse for later removal.
- 3) Install the new bag firmly in the tube sheet by lowering it into the same hole.
- 4) Ensure that the lip of the snap ring is secured around the entire perimeter. If there are any gaps, the bag could become dislodged.
- 5) Replace the metal cage inside the new filter bag by slowly lowering it into the filter bag until it firmly rests on top of the new snap ring bag.
- 6) Check the door gasket for wear or damage — replace if necessary. Otherwise, wipe the gasket clean and remove all foreign matter. The gasket must be clean to form a tight seal against the baghouse seal face to prevent leaks.
- 7) Close and secure the baghouse door. Lower the door and secure the door latches.
- 8) Remove the old filter bag now lying in the bottom of the baghouse. Locate the side access door at the bottom of the baghouse. Release the clean-out door latch and remove the old filter bag. The filter bag should be properly and safely discarded.

Pleated Cartridge Filters

Note: There is no steel cage to remove since the cartridge filter is stiff enough to keep it from collapsing during vacuuming operations.

- 1) Remove the metal snap ring on the top of the cartridge filter by pulling on the attached loop. Set the ring aside for reinstallation after the new cartridge filter is in place.
- 2) Partially pinch the ring on top of the cartridge filter to free the lip from the tube sheet.
- 3) Pull the filter straight up. **Do not let it fall into the baghouse. If the cartridge filter falls into the bottom of the baghouse, it will be difficult to remove from the bottom access door due to its rigid nature.**
- 4) Install the new cartridge filter in the reverse manner as outlined above.

Filter Bag Selection Guide

Fiber	Maximum Operating Temperature		Acid Resistance	Alkali Resistance	Dry Heat Resistance	Wet Heat Resistance	Flex & Abrasion Resistance
	°F	°C					
Polyester	300	149	Good	Good	Good	Good	Very Good
Polypropylene	200	93	Excellent	Excellent	Fair	Fair	Very Good
Acrylic	284	140	Excellent	Fair	Good	Good	Fair
Nomex (Aramid)	425	218	Fair	Excellent	Excellent	Excellent	Very Good
Nylon	248	120	Fair	Excellent	Good	Good	Excellent
Glass	550	288	Good	Fair	Excellent	Excellent	Poor
Cotton	200	93	Poor	Fair	Fair	Fair	Good

Polyester (Dacron)

Polyester fabrics offer good resistance to most acids, oxidizing agents and organic solvents. Concentrated sulphuric acid and nitric acids are the exception. Polyesters are dissolved by alkalis at high concentrations.
Maximum operating temperature: 300°F (149 °C).

Polypropylene

Polypropylene fabrics offer good tensile strength and abrasion resistance. They perform well in organic and mineral acids, solvents and alkalis. Polypropylene is attacked by nitric and chlorosulphonic acids, sodium and potassium hydroxide at high temperatures and concentrations.
Maximum operating temperature: 200°F (93°C).

Acrylic

The resistance of homopolymer acrylic fibers is excellent in organic solvents, good in oxidizing agents, mineral and organic acids and fair in alkalis. They dissolve in sulphuric acid concentrations.
Maximum operating temperature: 266°F (130°C).

Nomex (Aramid)

Nomex nylon fabrics resist attack by mild acids, mild alkalis and most hydrocarbons. Resistance to sulfur oxides above the acid dew point at temperatures above 300°F (149°C) is better than polyester. Flex resistance of Nomex is excellent.
Maximum operating temperature: 425°F (218°C).

Nylon

Nylon fabrics have good tensile strength and alkali resistance. However, nylon is degraded by mineral acids and oxidizing agents. This reaction is accelerated at high concentrations and temperatures.
Maximum operating temperature: 248°F (120°C).

Glass

Glass fabrics offer outstanding performance in high heat applications. They are completely resistant to acids except hydrofluoric and hot phosphoric in their most concentrated forms, but are attacked by strong alkalis at room temperature and weak alkalis at higher temperatures. Glass is vulnerable to damage caused by abrasion and flex.
Maximum operating temperature: 550°F (288°C).

Cotton

Cotton fabrics have good abrasion resistance and mechanical strength. They are however subject to rot, mildew and shrinkage.
Maximum operating temperature: 200°F (93°C).

Cartridge Filter (Fig. 1)

Maximum operating temperature is 375°F (191°C). Only used in select ACE models.

Part No.	Description
1260076	57" x 6.25" (1448 mm x 158.75 mm) pleated cartridge filter

Retainer Sleeve (Fig. 2)

Part No.	Description
11219019	Used with cartridge filter 1260076

Dacron Filter Bag (5 micron)

Standard bag 5 micron with super seal. Maximum operating temperature: 300°F (149°C).

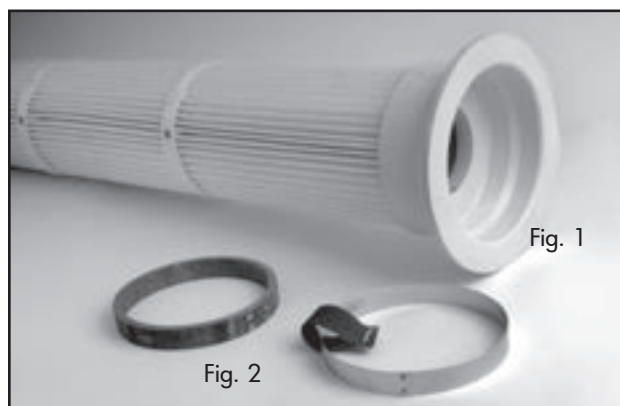
Part No.	Description
1260037	60" (1524 mm) used in ACE units, quantity 68 or 72. Call with serial number to confirm. (Fig.3)
1260038	70" (1778 mm) used in Classic and NX units. Classic units hold 60 filter bags. NX units hold 72 filter bags.
1260073	60" x 6.25" (1524 mm x 158.75 mm) — alternative to cartridge filter.
1260011	42" (1067 mm) with ground wire
1260033	60" (1524 mm) with ground wire
1260018	70" (1778 mm) with ground wire

Dacron Filter Bag

1 micron with super seal.

Maximum operating temperature: 300°F (149°C).

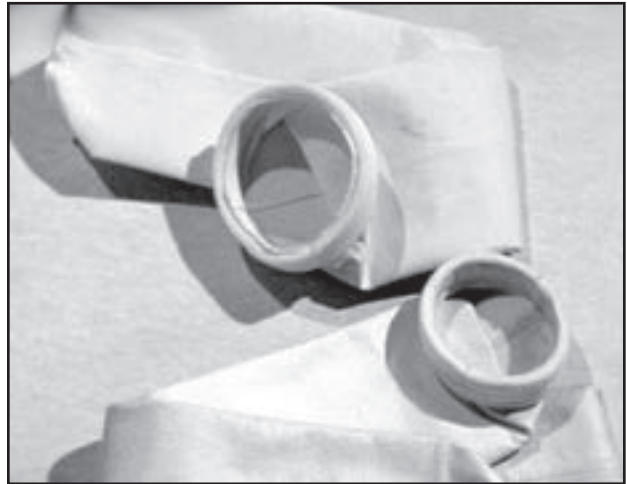
Part No.	Description
1260047	60" (1524 mm)
1260048	70" (1778 mm)



Acrylic-Coated Filter Bag

Used for wet applications. Maximum operating temperature: 266°F (130°C).

Part No.	Description
1260035	42" (1067 mm)
1260025	60" (1524 mm)
1260029	70" (1778 mm)
1260080	60" (1524 mm), 6.25" (158.75 mm) diameter



Nomex Filter Bag (High temp)

Nomex is a weave with high temperature aramid fiber, allowing air flow through the bag with a lower level of back pressure. Maximum operating temperature: 425°F (218°C).

Part No.	Description
1260039	42" (1067 mm)
1260040	60" (1524 mm)
1260041	70" (1778 mm)
1260074	58.5" (1486 mm), 6.25" (158.75 mm) diameter



Super Seal Bag

Only used in older Vactor models.

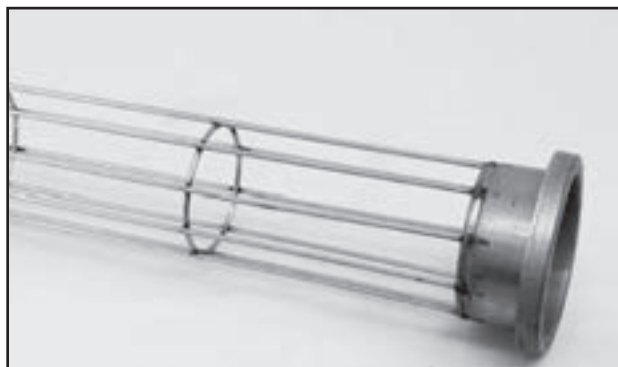
Part No.	Description
46223	50" (1270 mm) Polypropylene
44512	50" (1270 mm) Nomex
12644685	50" (1270 mm) Gortex
46684	50" (1270 mm) Acrylic

Bag house cages need to be strong to withstand the pressure from the filter bag while under vacuum. These cages are designed to provide maximum support, reducing flexing of the fabric that causes premature bag failure. On this page you will find the best cages available. All cages are made of high-strength steel — zinc-plated, epoxy coated or stainless.

Filter Bag Cage

Zinc-plated steel. Sold 12/case.

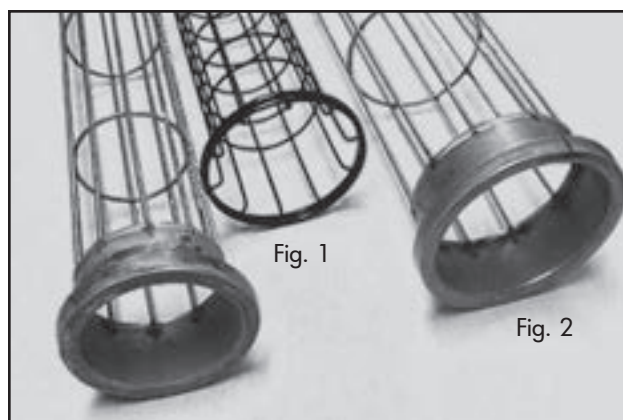
Part No.	Description
1270027	58" x 5.875" (1473 mm x 149.23 mm) used with filter bag 1260073
1270001	40" (1016 mm) used with 42" (1067 mm) filter bags
1270008	58" (1473 mm) used with 60" (1524 mm) filter bags
1270007	68" (1727 mm) used with 70" (1778 mm) filter bags
42511	50" (1270 mm) used with 50" (1270 mm) filter bags



Filter Bag Cage (Fig. 1)

Epoxy coated.

Part No.	Description
1270012	68" (1727 mm) used with 70" (1778 mm) filter bags
1270003	58" (1473 mm) used with 60" (1524 mm) filter bags
1270015	40" (1016 mm) used with 42" (1067 mm) filter bags



Filter Bag Cage (Fig. 2)

Stainless steel.

Part No.	Description
1270018	68" (1727 mm) used with 70" (1778 mm) filter bags
1270013	58" (1473 mm) used with 60" (1524 mm) filter bags
1270021	40" (1016 mm) used with 42" (1067 mm) filter bags

A full range of quality vacuum hose fittings to meet every hose or vacuum configuration possible. Fabricated to tight tolerances, they provide a better fit for easier installation, easier clamping, and fewer leaks.

Coupler Assemblies

Assembly includes male end, female end, clamp and gasket.

Part No.	Description
42577	4" (101 mm)
42578	6" (152 mm)
42579	8" (203 mm)



Weld-On Female Coupler

Female coupler — bare metal.

Part No.	Description
42580	4" (101 mm)
42581	6" (152 mm)
42582	8" (203 mm)
43594	10" (254 mm)
1280026	12" (305 mm)



Hose-End Female Coupler

Female coupler — galvanized.

Part No.	Description
42580A	4" (101 mm)
42581A	6" (152 mm)
42582A	8" (203 mm)
1280014	10" (254 mm)
43369	12" (305 mm)

Related Items

See Section E for Clamps.

See Page G-4 for Gaskets.

Weld-On Male Coupler

Male coupler — bare metal.

Part No.	Description
42583	4" (101 mm)
42584	6" (152 mm)
42585	8" (203 mm)
43595	10" (254 mm)
43370	12" (305 mm)



Hose-End Male Coupler

Male coupler — galvanized.

Part No.	Description
42583A	4" (101 mm)
42584A	6" (152 mm)
42585A	8" (203 mm)
1280009	10" (254 mm)
43370A	12" (305 mm)

Y-Adapter

Finish: galvanized

Part No.	Description
1280118	4" x 2" x 2" (101 mm x 51 mm x 51 mm)
1280044	6" x 4" x 4" (152 mm x 101 mm x 101 mm)
1280408	6" x 6" x 6" (152 mm x 152 mm x 152 mm)
1280119	8" x 4" x 4" (203 mm x 101 mm x 101 mm)
1280045	8" x 6" x 6" (203 mm x 152 mm x 152 mm)
1280357	8" x 8" x 8" (203 mm x 203 mm x 203 mm)



3-Way Adapter

Finish: galvanized

Part No.	Description
1280046	6" x 2" x 2" x 2" (152 mm x 51 mm x 51 mm x 51 mm)
1280604	6" x 4" x 4" x 4" (152 mm x 101 mm x 101 mm x 101 mm)
1280047	8" x 4" x 4" x 4" (203 mm x 101 mm x 101 mm x 101 mm)



90-Degree Elbow

Finish: galvanized

Part No.	Description
1280032	4" (101 mm)
1280033	6" (152 mm)
1280034	8" (203 mm)
1280035	10" (254 mm)
1280036	12" (305 mm)
1280988	6" (152 mm) double wall, bare steel, for high wear applications
1280990	8" (203 mm) double wall, bare steel, for high wear applications



45-Degree Elbow

Finish: galvanized

Part No.	Description
1280027	4" (101 mm)
1280028	6" (152 mm)
1280029	8" (203 mm)
1280030	10" (254 mm)
1280031	12" (305 mm)
1280987	6" (152 mm) double wall, bare steel, for high wear applications
1280989	8" (203 mm) double wall, bare steel, for high wear applications



Reducer (Galvanized)

Part No.	Description
1280042	6" x 4" (152 mm x 101 mm)
1280170	8" x 4" (203 mm x 101 mm)
1280043	8" x 6" (203 mm x 152 mm)
1280504	10" x 8" (254 mm x 203 mm)
1280965	8" x 6" (203 mm x 152 mm) double wall bare steel, for high wear applications
1280974	6" x 4" (152 mm x 101 mm) double wall, bare steel, for high wear applications
1280885	8" to 6" (203 mm x 152 mm) male on both ends
1280820	6" to 4" (152 mm x 101 mm) male on both ends



Reducer

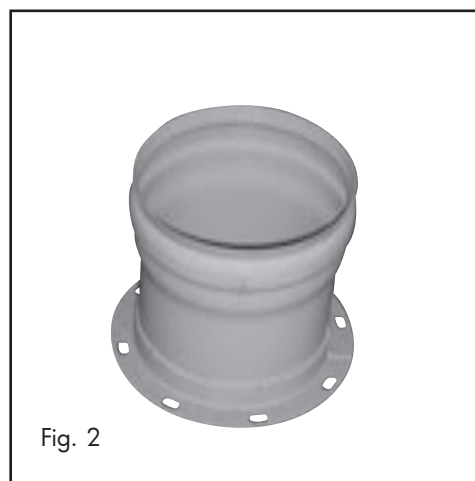
Used on HXX units.

Part No.	Description
35096	8" x 6" (203 mm x 152 mm) flanged transition (Fig. 1)
34141	6" (152 mm) flanged to double 4" (101 mm) reducer
51770	8" (203 mm) flanged to 6" (152 mm) male coupler
50271	8" (203 mm) flanged to 6" (152 mm) female coupler



Adapter Weldment

Part No.	Description
51188	8" (203 mm) flanged to 8" (203 mm) female (Fig. 2)
58795C	Hose end weldment, stl, 9 lg.
58795E	Hose end weldment, with wear plate



Male-End Plug

Part No.	Description
60619	4" (101 mm)
50463	6" (152 mm)
50078	8" (203 mm)
1280004	10" (254 mm)
1280005	12" (305 mm)

Female-End Plug

Part No.	Description
1280234	4" (101 mm)
1280233	6" (152 mm)
1280212	8" (203 mm)



Tee-Adapter

Part No.	Description
1280789	4" x 4" x 4" (101 mm x 101 mm x 101 mm)
1280712	8" x 8" x 4" (203 mm x 203 mm x 101 mm)
1281026	6" mm x 6" M x 6" F (152 mm x 152 mm x 152 mm)
1280451	6" F x 6" F x 6" M (152 mm x 152 mm x 152 mm)
1280516	8" F x 8" F x 8" M (203 mm x 203 mm x 203 mm)
1280768	8" M x 8" M x 8" F (203 mm x 203 mm x 203 mm)
1280376	6" M x 6" M x 6" F (152 mm x 152 mm x 152 mm)



Wet Ring

Reduces dust/carry-over and temperature of heated particulate by water injected into the fitting.

Part No.	Description
1280379	6" (152 mm), wet ring
1280378	8" (203 mm), wet ring

Water Ring

Part No.	Description
29314	Water ring weldment (HXX)



In-Line Vacuum Relief Valve

Always used between the last section of hose and the nozzle to break the vacuum during emergency situations and normal shut-down.

Part No.	Description
1280818	4" (101 mm) with male and female ends
1280619	6" (152 mm) with male and female ends
1280760	8" (203 mm) with male and female ends
48457	8" (203 mm) with flanged ends
1280891	4" (101 mm) with camlock ends
1280892	6" (152 mm) with camlock ends



Camlock Dust Cap

Aluminum (Fig. 1)

Part No.	Description
46247B	2" (51 mm)
46247D	2-1/2" (63.5 mm)
46247A	3" (76 mm)
1280154	4" (101 mm)
46229	6" (152 mm)
1280157	8" (203 mm)

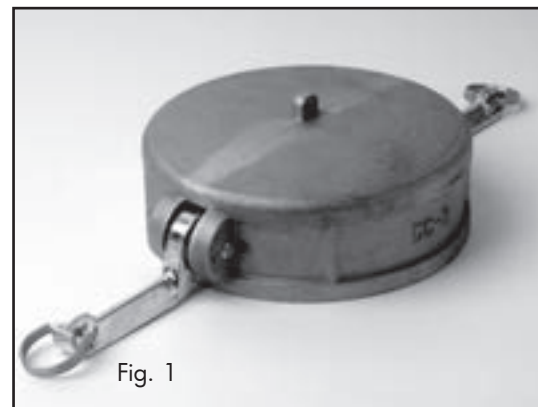


Fig. 1

Camlock Dust Plug

Aluminum (Fig. 2)

Part No.	Description
1280158	2" (51 mm)
1280159	2-1/2" (63.5 mm)
1280160	3" (76 mm)
1280161	4" (101 mm)
1280163	6" (152 mm)
1280164	8" (203 mm)



Fig. 2

Camlock Male-to-Female NPT

Aluminum (Fig. 1)

Part No.	Description
1280104	2" (51 mm)
46245D	2-1/2" (63.5 mm)
1280106	3" (76 mm)
1280107	4" (101 mm)
46245A	6" (152 mm)
1280110	8" (203 mm)



Fig. 1

Camlock Female-to-Male NPT

Aluminum (Fig. 2)

Part No.	Description
1280111	2" (51 mm)
1280112	2-1/2" (63.5 mm)
1280113	3" (76 mm)
1280114	4" (101 mm)
1280115	6" (152 mm)
1280123	8" (203 mm)



Fig. 2

Camlock Male-to-Male NPT

Aluminum (Fig. 3)

Part No.	Description
1280144	2" (51 mm)
46549D	2-1/2" (63.5 mm)
1280146	3" (76 mm)
46858	4" (101 mm)
46228	6" (152 mm)
1280150	8" (203 mm)



Fig. 3

Camlock Female-to-Female NPT

Aluminum (Fig. 1)

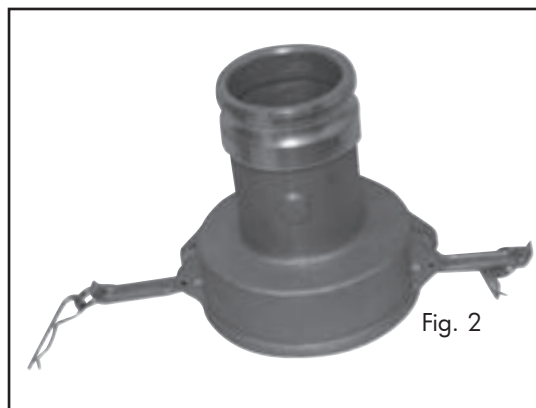
Part No.	Description
1280131	2" (51 mm)
1280132	2-1/2" (63.5 mm)
1280133	3" (76 mm)
1280134	4" (101 mm)
1280135	6" (152 mm)
1280136	8" (203 mm)



Camlock Female-to-Male Reducer

Aluminum (Fig. 2)

Part No.	Description
1280775	6" x 4" (152 mm x 101 mm)
1280896	6" x 3" (152 mm x 76 mm)
1280897	4" x 3" (101 mm x 76 mm)
1281012	8" x 4" (203 mm x 101 mm)



Camlock Hose Shank - Female

Aluminum (Fig. 3)

Part No.	Description
1280124	2" (51 mm) Female Adapter
1280125	2-1/2" (63.5 mm) Female Adapter
1280126	3" (76 mm) Female Adapter
46248	4" (101 mm) Female Adapter
46227	6" (152 mm) Female Adapter
1280130	8" (203 mm) Female Adapter



Camlock Hose Shank - Male

Aluminum (Fig. 4)

Part No.	Description
1280137	2" (51 mm) Male Adapter
46248D	2-1/2" (63.5 mm) Male Adapter
1280139	3" (76 mm) Male Adapter
1280140	4" (101 mm) Male Adapter
46227A	6" (152 mm) Male Adapter
1280143	8" (203 mm) Male Adapter



For extended length vacuuming, steel or aluminum tubing is more efficient than hose because there is less friction, resulting in easier flow of material.

Steel Tubing with Bandlock Ends and Epoxy Coating

.083" (2.11 mm) wall with male and female coupling ends. (Fig. 1)

Part No.	Description
1280053	6" x 7.5' (152 mm x 2.3 m)
1280321	6" x 10' (152 mm x 3 m)
1280054	8" x 7.5' (203 mm x 2.3 m)
1280325	8" x 10' (203 mm x 3 m)



Fig. 1

Aluminum Tubing with Bandlock Ends

Male and female steel coupling ends. (Fig.2)

0.072" (1.83 mm) STEEL ENDS

Part No.	Description
1280257	4" x 7' (101 mm x 2.1 m)
1280258	4" x 10' (101 mm x 3 m)
1280259	4" x 20' (101 mm x 6.1 m)

0.083" (2.11 mm) STEEL ENDS

Part No.	Description
1280447	6" x 3' (152 mm x .9 m)
1280260	6" x 7' (152 mm x 2.1 m)
1280055	6" x 10' (152 mm x 3 m)
1280236	6" x 20' (152 mm x 6.1 m)

0.083" (2.11 mm) STEEL ENDS

Part No.	Description
1280184	8" x 3' (203 mm x .9 m)
1280196	8" x 5' (203 mm x 1.5 m)
1280186	8" x 6' (203 mm x 1.8 m)
1280261	8" x 7'-6" (203 mm x 2.25 m)
1280056	8" x 10' (203 mm x 3 m)
1280262	8" x 20' (203 mm x 6.1 m)

Tubing Kroy Type

Part No.	Description
1280055B	6" x 10' (152 mm x 3 m)

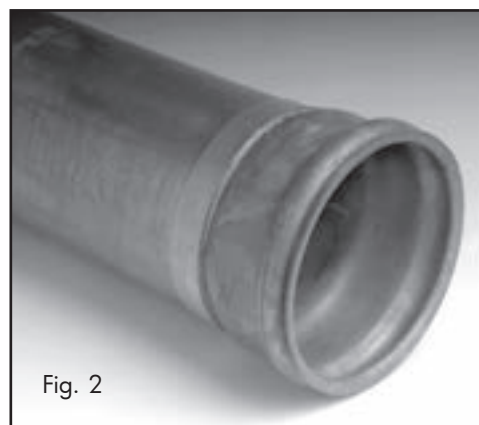


Fig. 2

Related Items

See Section E for Clamps.

See Page G-4 for Gaskets.

TECH TIP:

Aluminum tubing is sometimes preferred over steel for its lighter weight and ease of handling — resulting in less operator fatigue during set up. Steel is more durable than aluminum and often chosen when vacuuming abrasive materials.

All vacuum tubing should be inspected before every job and replaced as needed to ensure optimum vacuum performance. Proper gaskets and clamps should always be used.

Aluminum Pipe Assembly with Flanged Ends

Aluminum pipe with flanged ends.

Part No.	Description
25637D	8" x 6' (203 mm x 1.8 m)
25637F	8" x 7.5' (203 mm x 2.3 m)
25637G	8" x 10' (203 mm x 3 m)
25637L	8" x 15' (203 mm x 4.6 m)
34763A	6" x 5' (152 mm x 1.5 m)
34763B	6" x 7'-6" (152 mm x 2.25 m)
34763C	6" x 10' (152 mm x 3 m)



Aluminum Nozzle Handle

Used to handle aluminum tubes.

Part No.	Description
25262	8" (203 mm) Nozzle Handle
63404	6" (152 mm) Nozzle Handle



Aluminum Nozzle Assembly

Used on HXX Units for digging.

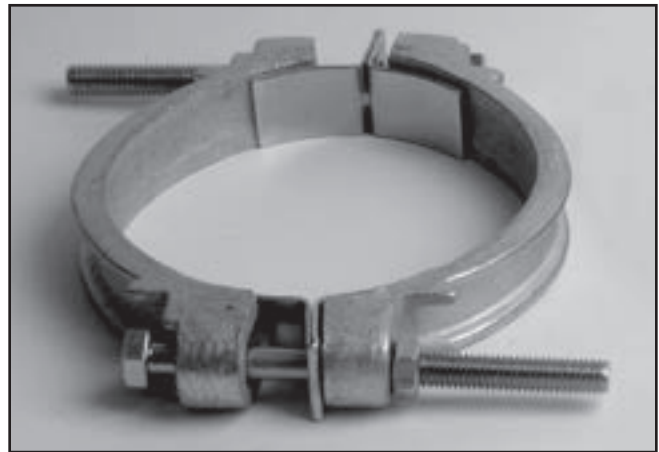
Part No.	Description
25268Q	8" x 7' (203 mm x 2.1 m) aluminum vacuum tube with rubber end
34766D	6" x 6.5' (152 mm x 1.95 m) aluminum vacuum tube with rubber end
1280185	8" x 36" (203 mm x .9 m) CB nozzle w/ band lock ends
85299	8" x 72" (203 mm x 1.8 m) CB nozzle w/ band lock ends



Double Bolt Clamp

Used on smooth exterior debris hoses.

Part No.	Description
42592	4" (101 mm)
1280049	6" (152 mm)
20856	8" (203 mm)
1280051	10" (254 mm)
1280052	14" (355 mm)



Coupler Clamp

For coupling male and female hose connections.

Part No.	Description
42586	4" (101 mm)
42587	6" (152 mm)
42588	8" (203 mm)
43563	10" (254 mm)
43371	12" (305 mm)



T-Bolt Clamp

Used on smooth exterior debris hoses.

Part No.	Description
45727	3-1/2" (88.9 mm)
45728	4" (101 mm)
45729	4-1/2" (114.3 mm)
45730	6-1/2" (165.1 mm)
46634	8-1/2" (215.9 mm)
70406	10" (254 mm)
1320557	13-3/4" (349.3 mm) used on microtrainer-to-blower and blower-to-silencer expansion joints
1320833	8" (203 mm) worm gear for float ball



Power Clamp

Used on corrugated exterior hose, such as Kanaflex or Plastic (PVC) hoses.

Part No.	Description
43389	4" (101 mm)
43415	6" (152 mm)
43388	8" (203 mm)
45739	10" (254 mm)
45606	12" (305 mm)



Quick Clamp

Used for coupling flanged ends.

Part No.	Description
46471A	4" (101 mm)
46471	5" (127 mm)
32087	6" (152 mm) - (8-5/8" I.D.)
16584	8" (203 mm) - (11-1/2" I.D.)
20543	10" (254 mm) - (12-5/8" I.D.)
20542	14" (355 mm) - (17-3/16" I.D.)



Expansion Plug

Part No.	Description
45731	2" Plug
45355	6" Plug (use seal PN 45591)
45035	8" Plug (use seal PN45592)
45590	10" Plug
45036	12" Plug (use seal PN45593)
71801	6" hyd. tank

Cage Long

Hose is placed inside of cage, most commonly used with plastic or PVC flex material (wears out hose instead of nozzles). The cage nozzle has an end guard to prevent hose from collapsing.

Related Items: See Page F-1 for Guzzler Grip tools.

Part No.	Description
1280843	4" (101 mm) Aluminum
1280841	4" (101 mm) Steel
1280847	6" (152 mm) Aluminum
1280845	6" (152 mm) Steel
1280851	8" (203 mm) Aluminum
1280849	8" (203 mm) Steel

Cage Short

Hose is placed inside of cage, most commonly used with plastic or PVC flex material (wears out hose instead of nozzles). The cage nozzle has an end guard to prevent hose from collapsing.

Part No.	Description
1280842	4" (101 mm) Aluminum
1280840	4" (101 mm) Steel
1280846	6" (152 mm) Aluminum
1280844	6" (152 mm) Steel
1280850	8" (203 mm) Aluminum
1280848	8" (203 mm) Steel

Notes:

GuzzlerGrip™ Nozzles

These nozzles are designed to make industrial cleaning easier and safer. The productivity-enhancing nozzles feature sturdy, ergonomic handles to minimize operator fatigue and back strains. Angled nozzle ends also improve vacuuming efficiency.



Easy-Lift Nozzle

All-purpose vacuum nozzle is lightweight and ergonomically designed to reduce fatigue and increase productivity.

Part No.	Description
49469	6" (152 mm) Aluminum
49470A	6" (152 mm) Aluminum vacuum nozzle replacement head for 49469
49469A	4" (101 mm) Aluminum
49470B	4" (101 mm) Aluminum vacuum nozzle replacement head for 49469A
49586	Hand grip used with 49438C



Backbone Nozzle

The backbone nozzle offers the same features as the Easy-Lift Nozzle, but is designed with a replaceable vacuum hose supported by a curved "backbone."

Part No.	Description
49577	6" (152 mm) Aluminum
49585	6" (152 mm) Aluminum vacuum nozzle replacement head for 49577
49577A	4" (101 mm) Aluminum
49585A	4" (152 mm) Aluminum vacuum nozzle replacement head for 49577A
49586	Hand grip



The backbone nozzle keeps the operator away from the plastic hose opening and allows better control while vacuuming.

Long-Reach Nozzle

The long-reach nozzle is used for hard-to-reach and/or unsecured areas, such as around conveyers or under machinery.

Part No.	Description
49572	4" (101 mm) Aluminum
49572A	4" (101 mm) Steel
49572B	6" (152 mm) Aluminum
49573E	6" (152 mm) Aluminum vacuum nozzle replacement head for 49572B
49574	Fiberglass handle, 1-3/4" (44.5 mm) (Fig. 1)

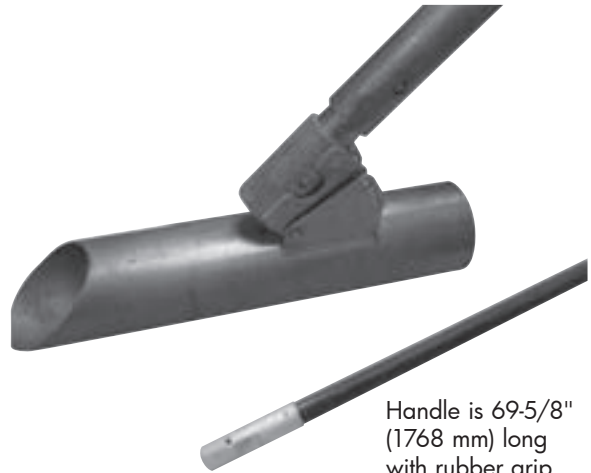


Fig. 1

Handle is 69-5/8" (1768 mm) long with rubber grip. Additional handles can be attached.

Shovel Nozzle

Part No.	Description
49575	4" (101 mm) Aluminum shovel with fiberglass handle (Fig. 2)
1280389	6" (152 mm) Steel, flat head shovel (Fig. 3)
1280389A	4" (101 mm) Steel, flat head shovel
49574	Fiberglass handle, 1-3/4" (44.5mm) (Fig. 1)



Fig. 2

Designed for a wide range of applications, the lightweight aluminum shovel nozzle allows you to loosen stubborn materials and vacuum at the same time.



Fig. 3

The flat shovel nozzles are your best choice when vacuuming clumped materials off flat surfaces and digging areas.

Pit Cleaning Nozzle

The pit cleaning nozzle has a crowned steel end to dislodge any packed or hardened material when vacuuming from pits or manholes.

Part No.	Description
504073	6" (152 mm) with fiberglass handle
49574	Fiberglass handle, 1-3/4" (44.5mm) (Fig. 1)
49472A	6" (152 mm) Aluminum vacuum nozzle replacement head for 50473



Production Nozzle

Offset sized tubing allows the nozzle to fluidize the material with airflow.

Part No.	Description
1280078	4" (101 mm) Aluminum
1280080	4" (101 mm) Steel
1280079	6" (152 mm) Aluminum
1280081	6" (152 mm) Steel



Bulk Nozzle

Straight shot for general vacuuming.

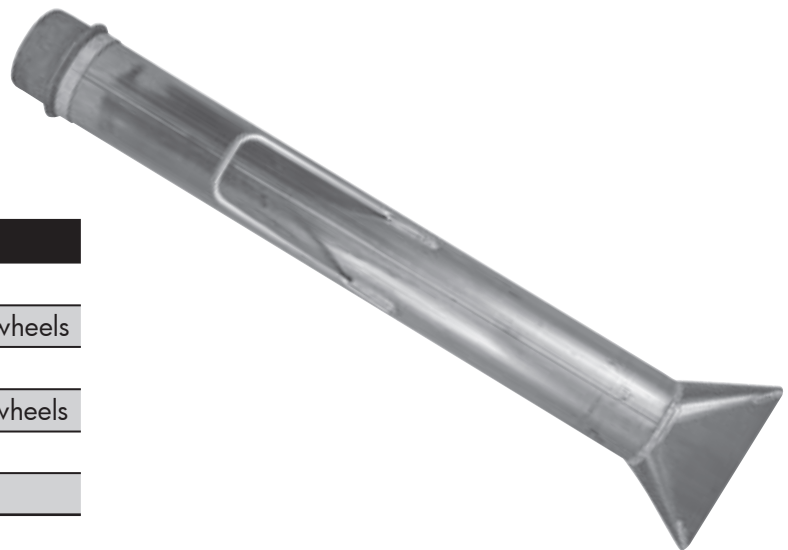
Part No.	Description
1280090	4" (101 mm) Aluminum
1280092	4" (101 mm) Steel
1280091	6" (152 mm) Aluminum
1280093	6" (152 mm) Steel



Floor Nozzle

Wide transition for floor vacuuming.

Part No.	Description
82014	4" (101 mm) Aluminum
1280726	4" (101 mm) Aluminum w/ wheels
1280084	4" (101 mm) Steel
1280667	6" (152 mm) Aluminum w/ wheels
1280083	6" (152 mm) Aluminum
82014A	6" (152 mm) Steel



Notes:

Replacement Door Gaskets

The most common vacuum leaks are due to worn gaskets. Gasket wear is caused by aging, exposure to chemicals, exposure to temperature change, plus routine opening and closing of doors. Gaskets are also exposed to constant stress resulting from vacuum level variations.

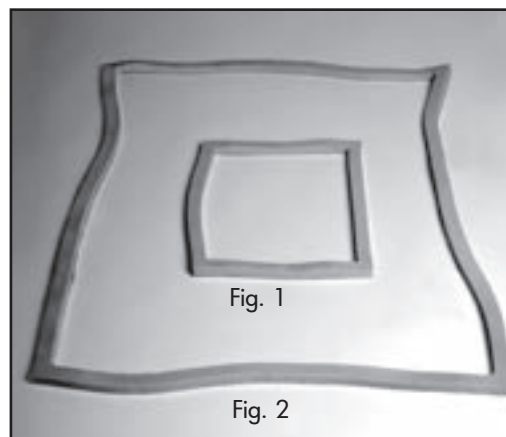
Clean-out Door Gasket (Fig. 1)

Side clean-out door gasket for a Guzzler Classic.

Part No.	Description
1250158R	13-3/8" x 17-1/8" (339.7 mm x 435 mm)

Top Baghouse Door Gasket (Fig. 2)

Part No.	Description
1250161R	4800 series (60 filter bags) — 2 required per machine 40-3/16" x 31-3/4" (1020.8 mm x 806.5 mm)
1250162R	4100 series (48 filter bags) — 2 required per machine 26" x 39" (660 mm x 990 mm)
1250166R	72 bag option — 2 required 40" x 41-1/2" (1016 mm x 1054 mm)



Poured Gasket Material

Longer lasting gasket material.

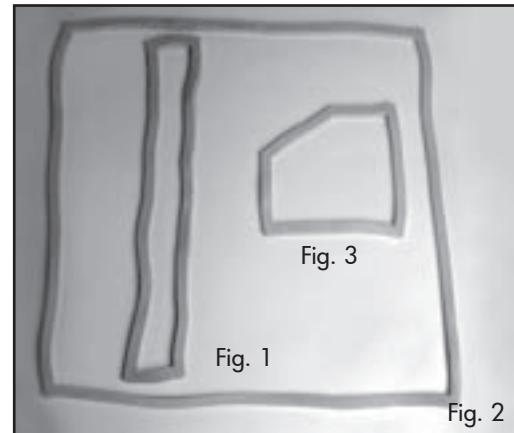
Part No.	Description
1250446	5 gallons (18.9 liters) with activator



TECH TIP: Leaks cause turbulence inside the filter system. This keeps particulates suspended right up to final filtration, causing filters to blind more quickly than normal resulting in higher fuel consumption, greater wear and tear on equipment, and reduced performance at the end of the hose.

Linear Wall Clean-out Door Gasket (Fig. 1)

Part No.	Description
1250182R	6" x 37" (152 mm x 940 mm)
1250259R	9-5/8" x 54" (244.5 mm x 1371.6 mm)
1250454B	Year 2002 to present (call with Guzzler serial number to confirm) gasket, poured fits 1375174 linear wall clean out door



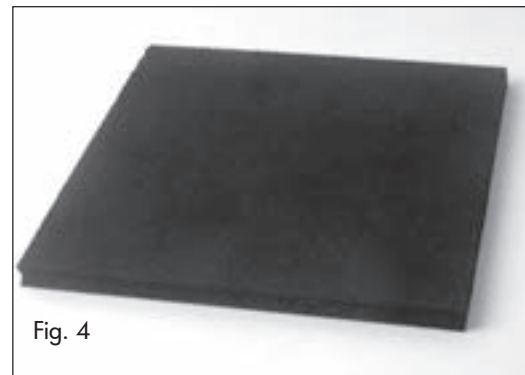
Cyclone Door Gasket (Fig. 2)

Part No.	Description
1250159R	Early model, minicyclones
1250258R	Single mode, 1 large cyclone 42-1/2" x 42-1/2" (1080 mm x 1080 mm)
1250454A	Year 2002 to present (call with Guzzler serial number to confirm) gasket, poured fits 1470789 linear wall clean out door

Dump Chute Door Gasket (Fig. 3)

Early model. Used with square dump tubes.

Part No.	Description
1250157R	14-1/2" x 15-1/2" (368 mm x 940mm)



Rear Inspection Door Gasket

(Fig. 4) Fits small square inspection door on rear bulkhead.

Part No.	Description
1250011	7" x 7" (178 mm x 178 mm)

D-Ring Gasket (Fig. 5)

This 3/4" (19.05 mm) D-ring gasket is the only material that will properly seal around these doors. Sold per foot.

Part No.	Description
1250327	ACE side clean out = 4' (1.2 m) per door ACE baghouse = 12' (3.6 m) per door ACE cyclone = 10' (3 m) per door Guzzler/ACE dumpchute = 4' (1.2 m) per door



Care must be taken to ensure gaskets are installed right side up. The **flat** side of the gasket with the chamfered corners goes in the gasket retention groove on the door. Clean the gasket retention groove and use 3M™ yellow weather strip adhesive according to 3M™ instructions.

TECH TIP: Many replacement gaskets shown in this section are direct replacements to the poured-in gaskets. Removal of poured-in gasket material can be difficult. For best results, first score an outer edge with a utility knife. Apply mild heat from a heat gun and pull up one edge, working a putty knife or flat chisel under material as you heat. Try to remove the entire gasket in one piece.

All replacement gaskets should be cleaned with an oil-free solvent to thoroughly remove the manufacturer's mold-release agent. FS Solutions suggest using a Cyanoacrylate rubber adhesive for gasket installation.

Half-Opening Tailgate Gasket

Part No.	Description
1250082	20' 6" L x 1-1/4" W x 1-3/4" D (6.2 m x 31.7 mm x 44.4 mm)
1250345	O-ring
35594	Door seal, 255" long



Door Seal

Part No.	Description
1250082	255" L

Full-Opening Tailgate Gasket

For ACE and NX units with full open tailgate and Safevac.

Part No.	Description
1250358	23' L x 2-1/2" W x 1-7/16" D (7 m x 63.5 mm x 36.5 mm)
1250243V	21' L x 2-1/2" W x 1-7/16" D
1250421	Ibex Tailgate Rear Door Seal kit - 20' L x 1.76" W x 72"D.



Expansion Joint Gasket

Part No.	Description
1250192	8" (1/2" x 9" ID x 12" OD) (203 mm; 12.7 mm x 228 mm ID x 305 mm OD)
1250176	10" (1/2" x 10.5" ID x 16" OD) (254 mm; 12.7 mm x 266.7 mm ID x 406 mm OD)
1250012	12" (1/2" x 15" ID x 19" OD) (305 mm; 12.7 mm x 381 mm ID x 482 mm OD)



Coupler Gasket (Fig. 1)

Used with female hose ends.

Part No.	Description
42589	4" (101 mm)
42590	6" (152 mm)
42591	8" (203 mm)
1280097	10" (254 mm)
43372	12" (305 mm)

Profile Gasket (Fig. 2)

Orange gasket used with male hose ends.

Part No.	Description
1280269	4" (101 mm)
42590A	6" (152 mm)
42591A	8" (203 mm)

Camlock Gasket (Fig. 3)

Part No.	Description
1280962	3" (76 mm)
1280961	4" (101 mm)
1280668	6" (152 mm)
1280963	8" (203 mm)

Blower-to-Silencer Expansion Joint (Fig. 4)

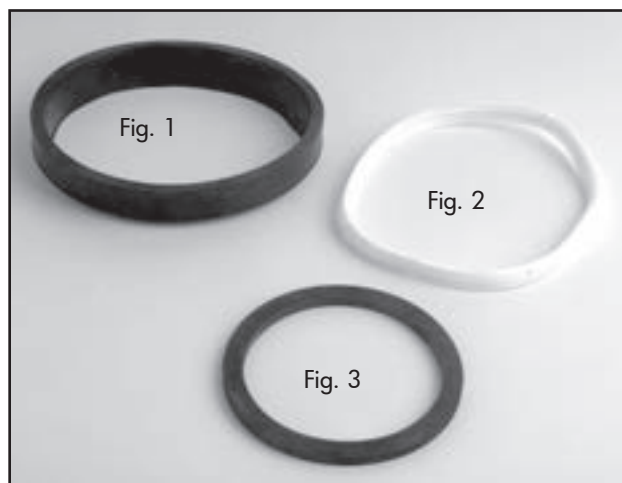
Uses 2 T-bolt clamps (1320557) per expansion joint.

Part No.	Description
1250269	1/2" x 4" W x 12.75" DIA (12.7 mm x 101 mm x 323.8 mm)

Microtrainer-to-Blower Expansion Joint

Uses 2 T-bolt clamps (1320557) per expansion joint.

Part No.	Description
1250265	1/2" x 3" W x 12.75" DIA (12.7 mm x 76 mm x 323.8 mm)



Flange Gasket

For 4" Sluloge 1250236

Part No.	Description
1250018	4" (1/8" x 4-1/4" ID x 9" OD) (101 mm; 3.2 mm x 108 mm ID x 228 mm OD)
1250019	6" (1/8" x 6-5/8" ID x 11" OD) (152 mm; 3.2 mm x 168.3 mm ID x 279 mm OD)
1250020	8" (1/8" x 8" ID x 13-1/2" OD) (203 mm; 3.2 mm x 203 mm ID x 343 mm OD)
1250021	10" (1/8" x 10" ID x 16" OD) (254 mm; 3.2 mm x 254 mm ID x 406 mm OD)
1250222	190 D x 12 ID, W/H

Boom Blind Flange Gasket (Fig. 1)

Part No.	Description
1250025	1/8" x 16-3/8" ID x 20-3/8" OD (3.2 mm x 415.9 mm x 517.5 mm)
1250026	1/8" x 12" ID x 16-1/2" OD

Blower Gasket (Fig. 2)

Part No.	Description
1250015	14" ID x 21" OD (356 mm x 533 mm) red rubber — inlet side
1250016	12" ID x 19" OD (305 mm x 483 mm) red rubber — discharge side
1250417	Blower to Inlet Flange

Rubber "U" Strap (Fig. 3)

Used with hydraulic tank straps.

Part No.	Description
45738A	3" W x 32" L (76 mm x 813 mm)

Float Ball Shut-Off Rubber Seat (Fig. 4)

Used on ACE units — 2 required for DF ACE.

Part No.	Description
1250413	.5" x 8.62" ID x 9.62" OD x 1.5" W (12.7 mm x 218.9 mm x 244.3 mm x 38.1 mm)

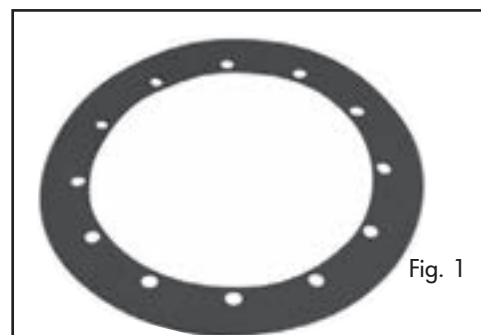
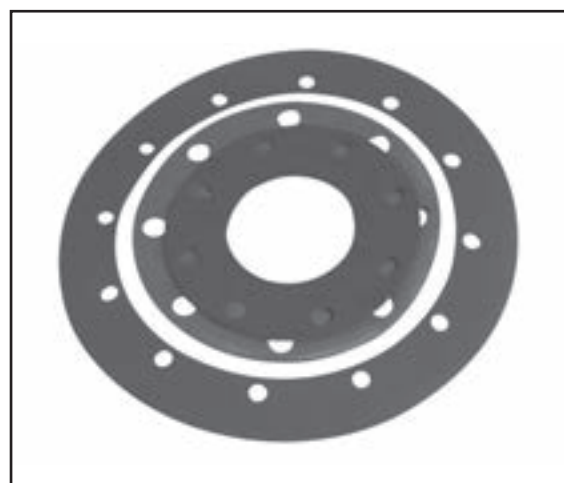


Fig. 1

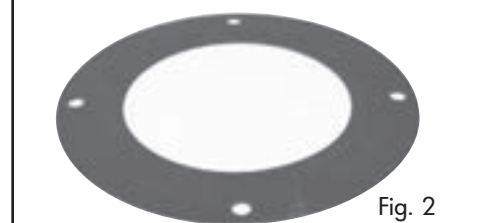


Fig. 2

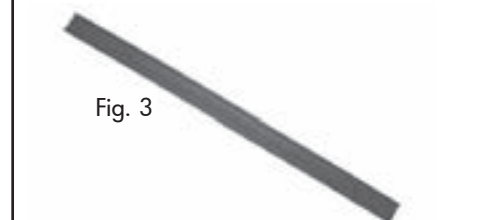


Fig. 3



Fig. 4

Slip Ring for Silencer (Fig. 1)

Part No.	Description
11220500	3/8" x 12-3/4" ID x 19" OD (9.5 mm x 324 mm x 482 mm)

Gasket for VRB System (Fig. 2)

Used on NX High Dump units.

Part No.	Description
11221061	8" OD x 1.5" W (203 mm x 38.1 mm), Neoprene seal
1250269	Boot, Blower to silencer
1250265	Boot, Microstrainer to blower

Blower Expansion Joint Hose

(Fig. 3)

Used on NX units.

Part No.	Description
1250269A	1/2" x 8" x 12-3/4" ID (12.7 mm x 203 mm x 323.8 mm)

Make/Break Seal (Fig. 4)

Used on NX units.

Part No.	Description
1250450D	Urethane, 40DURO, 1-3/4" (44.4 mm) thick, red
1250362	Gasket, Manifold .06" x 19.75" 21.25"
1230700A	Gasket, Blower to Manifold

Inspection Port Gasket

Part No.	Description
39893	1/8" x 10-1/2" DIA (3.2 mm x 266.7 mm)

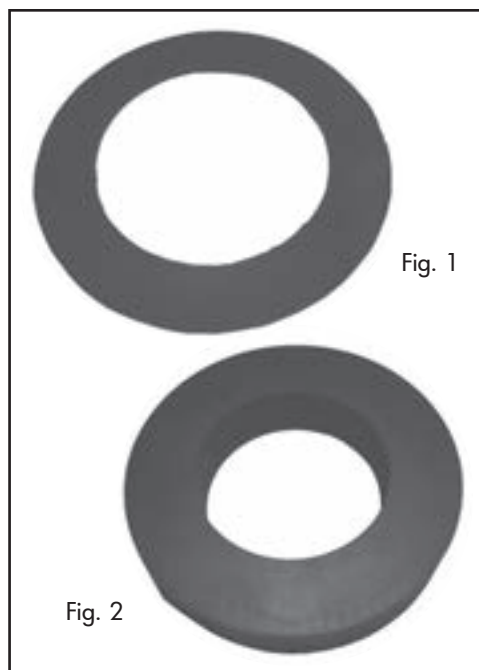


Fig. 1



Fig. 3

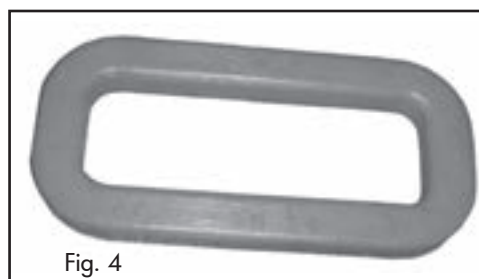
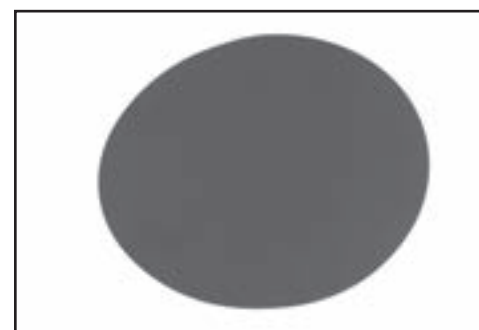


Fig. 4



Shift Tower Relay

Easy to install plug-in relay switch.

Part No.	Description
1191157	8 pin, 12V
1190768	11 pin, 12V (Fig. 1)

Relay Socket

Part No.	Description
1190404	8 pin (Fig. 2)
1190748	11 pin (Fig. 3)
1191404	12-way circuit breaker

TECH TIP: The shift tower relay is keyed for proper alignment in the keyway in the relay socket. Make sure to align the relays and their sockets for proper operation of the functions they control.

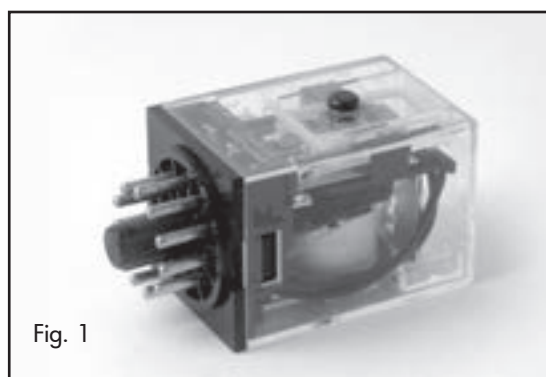


Fig. 1

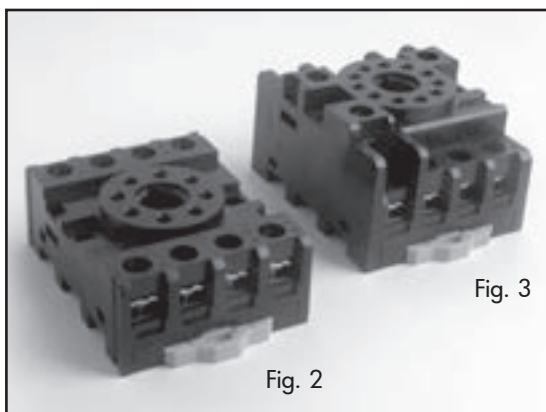


Fig. 3

Fig. 2

Pressure Switches

Part No.	Description
1191468	Mounted on firewall of chassis, non-adjustable, 50 lb (23 kg) (Fig. 4)
40755	Normally open, 60 psi (4 bar) (Fig. 5)
40755A	Normally closed, 60 psi (4 bar)
40755B	Single push double throw, 60 psi (4 bar)
40755C	Set at 92
40755O	Set at 100
1291009A	Pressure Switch N/O with red stripe
1291009B	Pressure Switch N/C with white stripe



Fig. 4



Fig. 5

OMNEX Wireless Control Units

Part No.	Description	Guzzler	HXX
46938VD	Pendant Cap/Chain - Closure Cap/Chain		X
46938VC	Pendant Connector - 5P Female Recept		X
46938VG	Heavy Pendant Cable - 33 Ft		X
46938VH	High-Visibility Shoulder Harness		X
46938VJ	Waist Harness		X
46938VK	Can Receiver	X	
46938VS	T110 Leather Pouch w/ Clip	X	X
46938VT	T110 Yellow Strap Kit	X	X
46938X	Wireless Transmitter/Receiver - T110		X
46938XA	Wireless Transmitter/Receiver - T300		X
46938XAA	1-Axis Paddle for T300		X
46938XAB	2-Axis Joystick for T300		X
46938XAC	E-Stop Button for T300		X
46938XB	Wireless Transmitter - T110		X
46938XC	Wireless Transmitter/Receiver - T110		X
46938XD	Wireless Transmitter/Receiver - T110	X	X
46938XE	Yellow Button Cover - T110	X	X
46938XF	Wireless Transmitter - Part for 46938X		X
46938XCA	Wireless Transmitter - Part for 46938XC		X
46938XG	Charging Dock - T110	X	X
46938XH	Rechargeable Batteries - AA NI-CAD	X	X
46938XJ	Battery Cover - Yellow w/ Magnets	X	X

Radio Control Unit

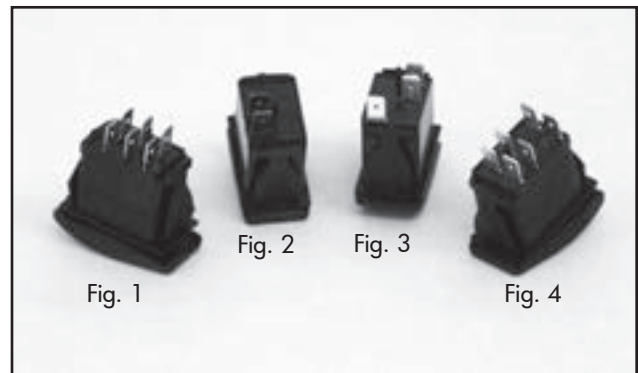
Part No.	Description
46938J	Radio Control Unit HXX
46938JB	Transmitter for 46938J
46938JC	Receiver for 46938J
46938JA	Case for 46938J
46938L	Shoulder strap for 46938J
46938JF	Plastic carry bag for 46938J
46938XAE	Belly Pack

Radio control unit can be used to wirelessly control boom, vacuum relief, throttle, recirculation system and water pump on HXX, NX and Guzzler units. Functions are determined by individual order and will vary by model.



Control Panel Switch (Early Model)

Part No.	Description
1191490	Rocker switch — increase/decrease throttle (Fig. 1)
1191431	Momentary switch for vibrator (Fig. 2)
1191449	Rocker switch — on/off switch (Fig. 3)
1191450	Rocker switch — on/off throttle (Fig. 4)
1191767	Rocker only
1191671	Switch, 2 pos. maintained - red light one side/green light



Vacuum Relief Pendant (Early Model)

Part No.	Description
1350511	Air-operated with twist lock (Fig. 5)
1351115	Air-operated with 4-pin trailer connection



Vacuum Relief Pendant

Part No.	Description
1351262	Assembly with 8-pin trailer connection (Fig. 6)



Boom Pendants

Part No.	Description
1350598	Up/down, left/right, brake
1350790	Up/down, brake
1350741	For XCR unit (Fig. 2)
1351263	4-button: up/down, left/right, open/close (Fig. 3)
1351264	6-button: up/down, left/right (Fig. 4)
1351265	8-button: for swing out cyclone (Fig. 5)
1350053	2-button: up/down, with 4-pin trailer connection (Fig. 6)
1350053A	2-button: up/down, with twist lock



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

Control Panel Assembly (New Style)

Part No.	Description
1000465J	Complete control panel with gauges and switches (wire harness 191362B required when updating)
1190091	3/8" (9.5 mm) copper solder lug for new style control panel
1191027	Circuit breaker for electric vibrator — 60 amp
1200176A	1/8" (3.2 mm) NPT hydraulic cross
1353009	New style Guzzler control panel box only. No gauges or hardware included.
191364	Guzzler wiring harness with 40-pin connection
20358	12V red warning light
20358A	Yellow indicator light
20359	12V green warning light (qty. 3)
40241A	Toggle switch (on/off)
40755	Pressure switch — 60 psi (4 bar)
42612B	Panel light
42645E	2-1/2" (63.5 mm) vacuum gauge with glycerin
44592	Fuse panel
44596A	5 amp circuit breaker (qty. 4)
44597	Ground bus
44622	Momentary toggle switch
45554	Toggle switch
45554A	Toggle switch (Fig. 1)
46344L	Time delay relay
46492	Relay — 75 amp
46811T	Blower temperature gauge with switch
46811U	Air pressure gauge with switch
46811V	Air pressure sender
46846	Hydraulic pressure gauge — 5000 psi (345 bar)
47658A	Hydraulic adapter used with pressure gauge 46846
70140C	New style tachometer, tach sensor 46159B
71261	Relay — 12V 30 amp

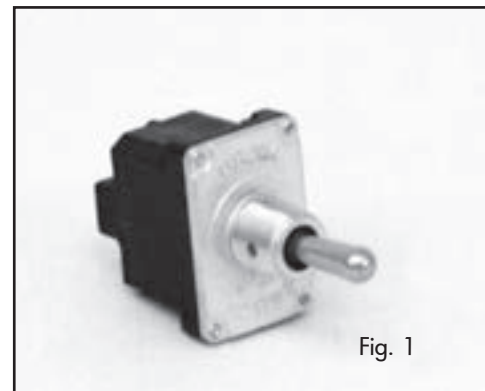


Fig. 1

Related Items

See Page M-14 for replacement Control Panel Butterfly Latches.

Vibrator

Used to loosen debris when emptying tank.
Should not be held down continuously.

Part No.	Description
1190731	Electric vibrator
1191027	electric vibrator., 60 AMP Thermo circuit breaker

TECH TIP: For maximum vibrator life and to lessen the possibility of damaging the vacuum tank/debris body, run the vibrator **45 seconds or less ON** and **90 seconds or more OFF** in order for the vibrator to cool down. Never operate the vibrator with an empty tank or unless you are emptying the debris body. Running the vibrator with the tailgate closed will cause material to pack and become more difficult to empty.



Electric-Over-Air Solenoid Valve

Part No.	Description
1140380	Dual solenoid used for vacuum relief and transfer case shift (Fig. 1)
1140438	New style dual solenoid (Fig. 2)
1140379	Single solenoid used for vacuum relief (Fig. 3)
1140437	New style single solenoid (Fig. 4)
1140430	Air solenoid,



Fig. 1

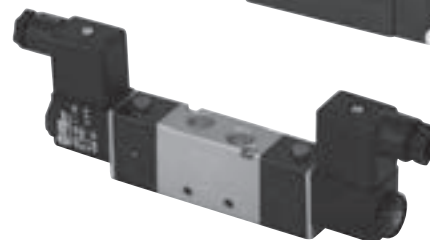


Fig. 2

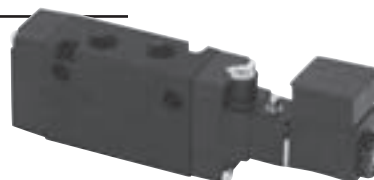


Fig. 3



Fig. 4

Switches

Part No.	Description
1191753	PTO switch — dash mount for International® chassis (Fig. 5)
1191754	Road mode to blower mode switch — dash mount for International® chassis (Fig. 6)
1140466	Road mode to blower mode switch — dash mount for Sterling chassis (not shown)
1140466	PTO Switch



Fig. 5



Fig. 6

Throttle Cable

Part No.	Description
1240428	157" (3988 mm) cable (Fig. 1)
1240615	240" (6096 mm) cable
1240035	195" (4953 mm) cable
1240639	Throttle rod end, 1" (25 mm) stroke
1240640	Throttle rod end, 2" (51 mm) stroke
1240643	Throttle rod end, 3" (76 mm) stroke (Fig. 2)
1240076	Throttle cable head (Fig. 3)
42654	168" (4267 mm) cable
42655	192" (4877 mm) cable
1140024	Air cylinder, 1-1/16", PH, throttle
1240559	throttle linear actuator
46125	Cord reel, steel, 15'

Lights

Part No.	Description
20358D	L.E.D., red, 12V (Fig. 4)
20358H	L.E.D., green, 12V
70499	Clear auxiliary light (Fig. 5)
45741	Left-hand tail light — used on Guzzler units (Fig. 6)
45742	Right-hand tail light — used on Guzzler units
45743	Clearance light, Red
45744	Clearance light, Amber
1191363	Guzzler/ACE complete light kit
36460	Hand spot light with cord

Related Items

See Page M-14 for Light Brackets.

Vacuum Switch

Part No.	Description
42645G	Used on NX recovery system

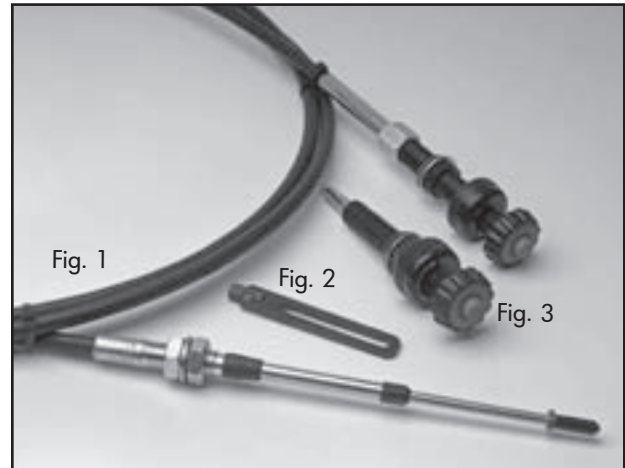


Fig. 1

Fig. 2

Fig. 3



Fig. 5

Fig. 6

When making electrical connections always use high quality connectors and make good quality crimps. Heat shrink tubing is recommended for a secure connection.



Pressure Protection Valve

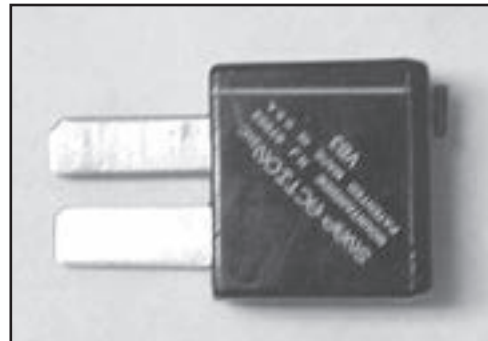
Required when chassis compressed air is used for unit operation. The valve is designed to prevent the accidental release of air pressure and will shut off air to the Guzzler System if air pressure falls to 65 psi (5 bar).

Part No.	Description
44129	Pressure protection valve



Circuit Breaker

Part No.	Description
44596	10 amp
44596A	5 amp
44596C	20 amp



Tach Sensor

Part No.	Description
46159	Old style used with tachometer 1191161 (Fig. 1)
46159B	New style used with tachometer 70140C (Fig. 2)
1191162	Magnetic sensor used with tachometer 1191173 (Fig. 1)
49630	Magnetic pickup sensor
1210795	Tach sprocket for blower



Fig. 1

Fig. 2

Related Items

See Page J-2 for Tachometers.

Relay

Part No.	Description
46492	75 amp power relay for various control panels (Fig. 3)
1190447	12V for vibrator
1191109	12V time delay relay (Fig. 4)
6344L	Time delay
6344F	Time delay starter



Fig. 3



Fig. 4

Air Pressure Sender

Part No.	Description
46811V	200 psi (14 bar)



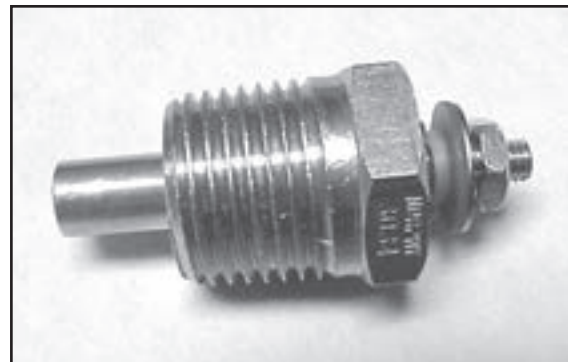
3-Position Throttle Switch

Part No.	Description
47772	Electric throttle switch used on NX vacuum recovery system
40241	Switch - toggle SPST Off/On
1190357	Contact Block, special early closing
1190334	Switch, 3-position Select, w/ manual return



Blower Temperature Sending Unit

Part No.	Description
47903A	300°F (149°C)



Temperature Sending Unit Boot

Part No.	Description
47903AA	Sender boot



Air Solenoid Assembly

Part No.	Description
1140456	Air Solenoid Valve Assembly (Fig. 1)
1140456A	Replacement Solenoid (Fig. 2)
1140456B	Replacement Valve Module (Fig. 3)

Solenoid (Fig. 4)

Part No.	Description
1191717	12V — used as main power relay in various control panels

Air Solenoid (Fig. 5)

Part No.	Description
1140430	For International® chassis 2674

Replacement Solenoid Kit

Part No.	Description
1353001	Upgrade kit for Dana transfer case (See drawing)

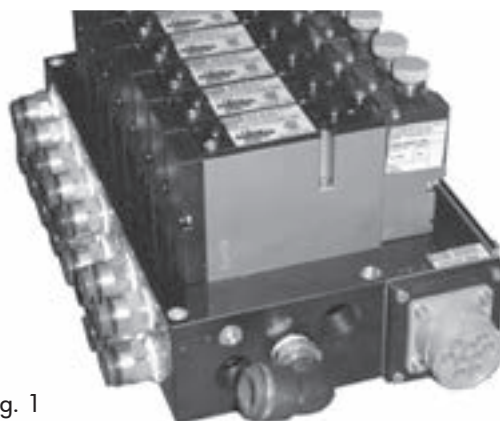


Fig. 1

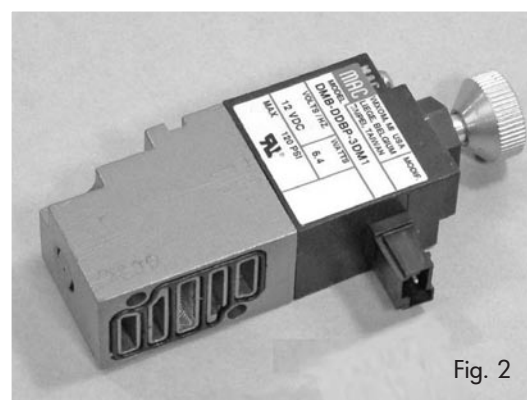


Fig. 2



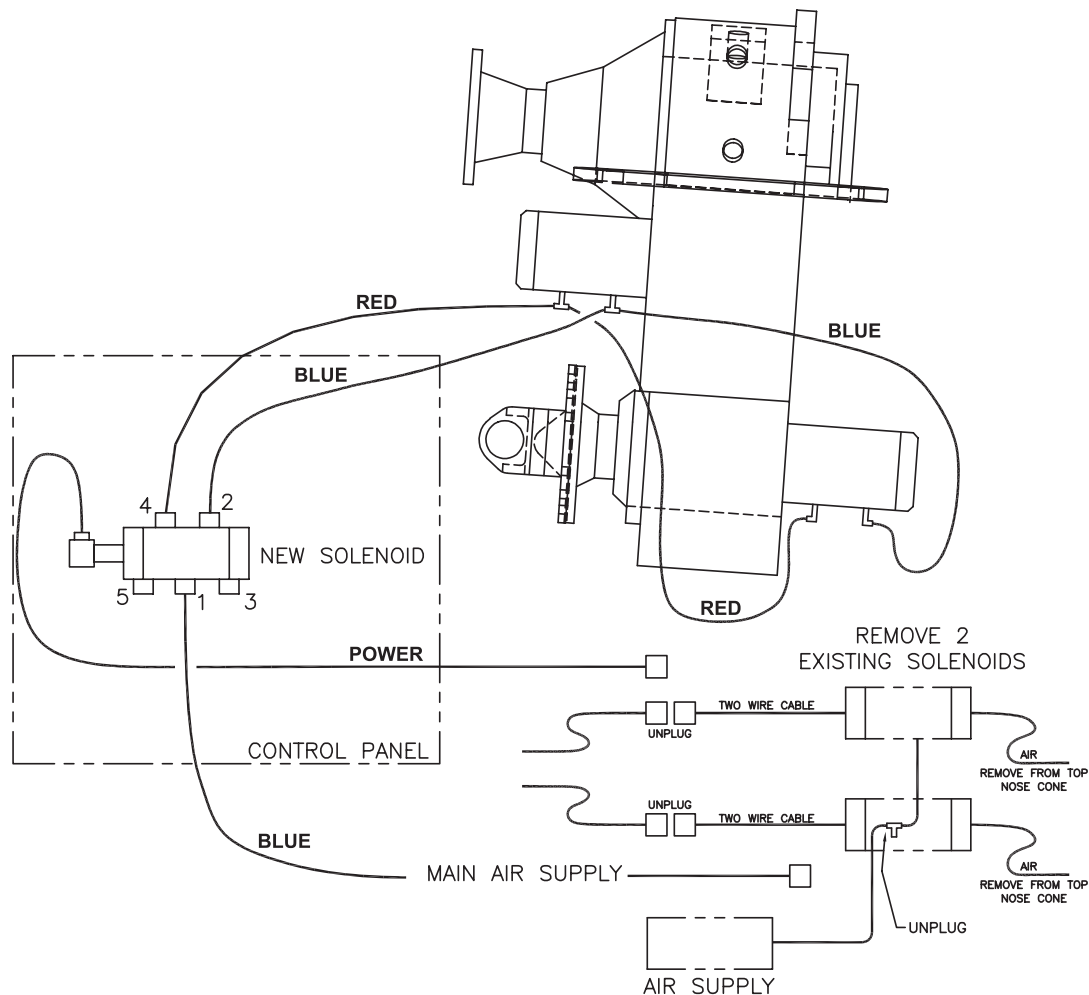
Fig. 3



Fig. 4



Fig. 5



Retrofit Instructions for Air Solenoid Replacement – Dana Transfer Case Upgrade

1. Mount air solenoid valve to back of control box. Ports #2 and #4 should be on top.
2. Unplug Waytech electrical connectors on two existing solenoids. **Do not unplug the solenoid for PTO engagement.**
3. Remove the two air lines to these solenoids from the upper nose cone on the transfer case. These are quick disconnect style air fittings. Push the head of the fitting in while pulling on the air line. It will pop out.
4. Unhook the main pressure line feeding the two solenoids and install coupler Part #479160.
5. Unbolt both solenoids and remove them and the loose air lines connected to them from the unit.
6. Attach the "RED" airline from Port #4 of the solenoid valve to the open fitting on the front port of the upper nose cone on the transfer case.
7. Attach the "BLUE" air line on Port #2 of the solenoid valve to the open fitting on the back port of the upper nose cone of the transfer case.
8. Attach the "BLUE" air line from Port #1 on the solenoid to the coupler installed in the main pressure line in Step #4.
9. Plug the Waytech electrical connector (located on the two wire cable connected to the air solenoid valve) into either of the two connectors previously unplugged in Step #2.
10. Tie-wrap air lines and wires and test the unit.

Push-Pull Maintained Switch

Part No.	Description
1191689	Push/Pull-On/Off switch used in electrical circuits of many Guzzler products



Joystick

Part No.	Description
191138	Dual axis joystick used on High Rail boom (Fig. 1)
1191291	Microswitch for 191138 joystick
1191658	Forward/Reverse joystick used on High Rail creep drive system (Fig. 2)
1191073	Panel box used for dual axis joystick, 6" x 6" x 4" NEMA (152 mm x 152 mm x 101 mm)
1191353	Proportional joystick used on early model High Rail units with PTO driven hydraulic pump



Fig. 1



Fig. 2

Wiring Harness

Main wiring harness for Guzzler Classic/ACE.

Part No.	Description
191362A	Early Model
191362B	New Style — works with control panel shown on page H-4



TECH TIP: Maintaining the hydraulic system on your equipment will result in a longer life for all components. Using Guzzler high-quality filters, maintaining proper pressures, and servicing with the proper oils will contribute greatly to the overall life and performance of your hydraulic system.

Tailgate Cylinder (Fig. 1)

For half-open rear door - lowers and raises the tailgate.

Part No.	Description
1202183A	Hydraulic cylinder - 2 required per truck



Fig. 1

Hoist Cylinder (Fig. 2)

Raises debris body for dumping

Part No.	Description
1200334A	Hoist cylinder - 3 stage for Guzzler Classic
1200910	Hoist cylinder - Trunnion mount for XCR
1201676A	Hoist cylinder - Trunnion mount for DF ACE
1201931A	Hoist cylinder - Trunnion mount for CF ACE
1202137	Hoist cylinder - Trunnion mount for pressure off-load system



Fig. 2

Tailgate Manifold Assembly

Controls speed and has load-holding feature that locks tailgate in the up position.

Part No.	Description
1201958D	Hydraulic manifold - controls hydraulic door locks, 6 ports (Fig.3)
1202165	Hydraulic manifold - pressure control for full-open tailgate ACEs
1202194	Cartridge for 1201958D - hydraulic load holding check valve (not shown)
1201958A	Needle valve for 1201958D - adjusts speed of cylinder



Fig. 3

Related Items: See Page I-5 for selection of proper check valve or counterbalance valve.

Hydraulic Pump

Hydraulic pump for open-center system

Part No.	Description
1200419	Hydraulic gear pump
1200420	Hydraulic gear pump

Related Items: See Page I-9 for troubleshooting tips. See Section U for recommended oils, lubricants and fluids.

Variable-Volume Pressure-Compensated Pump

Used on most ACE units and Classic XCR. For correct hydraulic pump selection, call FS Solutions with your unit's serial number.

Part No.	Description
1200743	Hydraulic valve-volume pump - left-hand rotating spline drive
1200599D	Spool, Std. "C", VDP12 Style V

Control Valve

For the hydraulic system, such as opening and closing tailgate, lowering and raising debris body, and other options.

Part No.	Description
1200599	3-bank Hydraulic control valve (Fig.1)
1200599A	3-bank Hydraulic control valve with detent
1200327	Dust cap - keeps material away from spool
1200828	Relief valve - used to adjust pressure in hydraulic system
1201406	Wiper - keeps debris off spool
1201405	O-ring - seals each end of spool
1200954	Detent kit - allows handle to be in a held position.
1200323	Handle Kit for Valve Bank



Fig. 1

Hydraulic Cylinders

Part No.	Description
1202215	Cylinder - opens and closes Dezurik valve
1201175A	Repair kit used for 1201175 - allows cylinder to be rebuilt and reused
1201816	Piston - fits 1201175
1201186	Rod clevis - allows cylinder to be connected to any option
1202199	Cylinder
1202208	Cylinder - for rear NX door

Hydraulic Filters

Part No.	Description
1200303	Suction filter
1202167	Spin-on 25 micron filter element
1200303A	Suction filter, old style
1200304	Suction filter element
1201309	Return filter assembly
1201310	10 micron filter element
46864	2" (51 mm) NPT suction strainer (Fig. 3)
48209A	Filter element for 48208A
42431A	Filter element for 48208A
42431B	10 micron filter element for 62643M
42431	10 micron filter element for 62643
42429	Oil filter assembly (SAE#20/10MIC)

TECH TIP: As with any oil filter installation, coat the seal on the new filter prior to installing it.

Filter Breather Assembly

Part No.	Description
70294	10 micron

Hydraulic Tank

Part No.	Description
1375213	50 gallon (189.3 liters) round style

Boom Motor

Part No.	Description
1202080	Hydraulic boom motor w/ brake
1200464	Motor, Hydraulic rotating boom

Boom Cylinder

Part No.	Description
45136C	Telescoping boom – Extendable cylinder
48440E	Telescoping boom – Lift cylinder
1202207	Fixed boom – Lift cylinder

Hydraulic Lock Assembly

Part No.	Description
89423	For full-opening tailgate system
89423H	Bolt for hydraulic lock assembly
89423N	Nut for Hydraulic lock assembly

Tailgate Lock

Part No.	Description
1336149	Tailgate over-center lock

Shuttle Valve

Part No.	Description
47986	Hydraulic shuttle valve

Sandwich Valve

Part No.	Description
1201400	Check valve used to keep cyclone discharge valve seated when closed
1200350	Selector valve for Guzzler equipment
46644	Selector valve for Vactor equipment
1200348	Flow divider valve

Fig. 1

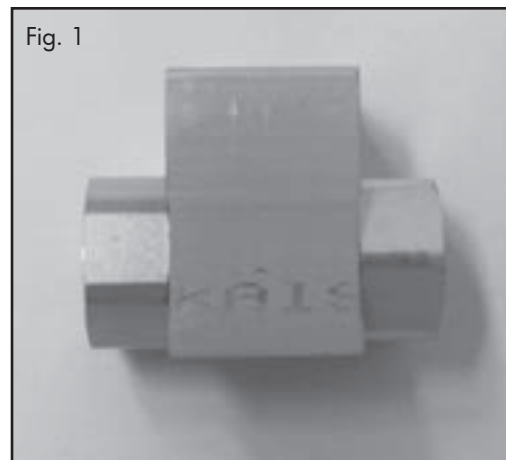
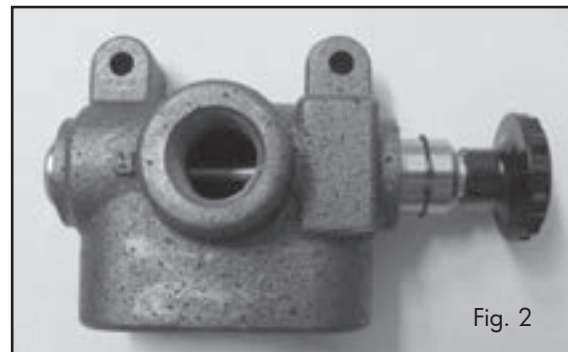


Fig. 2



Solenoid Valve

Part No.	Description
1200341	12V
1201771	Block center used in conjunction with variable volume pump
1201780	12V, open-center used in conjunction with open-center system hydraulic pump
1201994	Directional valve, A-B tank
45302H	Valve Hyd. Directional, solenoid
45302EA	Valve, Sect, 2nd or 3rd 45302E
45302IA	Valve, Sect, 1st on 45302I
45302D	Valve, Std. Directional, Solenoid
45302B	Coil, 12V, Dual Wires, for BV06
1191011	Connector, Din Standard

Subplate for Solenoid Valves

Part No.	Description
1200344	Sub plate
1200346	Sub plate - dual
1200951	Sub plate - 2 station parallel
1202008	Sub plate - 3 station parallel

Hoist Cylinder Controls

Part No.	Description
1201570	Valve 6 port - used for boom functions and on ACE and Guzzler tail-gates
1202206	Dual valve - used for hoist cylinder with a power up or down

Related Items: See Page I-9 for troubleshooting tips.

Vibrator

Used to loosen debris when emptying the tank.
Should not be held down continuously.

Part No.	Description
1200353	Hydraulic vibrator
1200592	Motor, global hyd. vibrator

TECH TIP: For maximum vibrator life and to lessen the possibility of damaging the vacuum tank/debris body, run the vibrator 45 seconds or less ON and 90 seconds or more OFF in order for the vibrator to cool down. Never operate the vibrator with an empty tank or unless you are emptying the debris body. Running the vibrator with the tailgate closed will cause material to pack and become more difficult to empty.

Related Items: See Page I-9 and I-10 for troubleshooting tips.

Recommended Practices for Handling and Storage of Hydraulic Components

The life of the hydraulic system is directly related to cleanliness. Typically, the cleaner a system is, the longer it will last. Particle or chemical contamination. Therefore is the enemy of any hydraulic system and extra effort should be taken to avoid contamination whenever and where ever possible. The following is a list of good practices to reduce or eliminate potential contamination while storing, handling, assembling and using hydraulic system components.

Ports & Fittings

- Port plugs should remain in components and hoses until ready to use.
- Use care in removing port plugs so that plastic does not shear off in the threads
- Use caution to ensure excess paint near the port face does not chip or fall off the unit.
- The area around the port face is a sealing surface and should be protected from dents or contamination
- Fittings being screwed into the port should be clean and lubricated.

Assembly & Storage

- Hose and tube assemblies should be flushed and capped until used.
- Reservoirs should be pickled treated with rust protection and sealed until used. At the time of use the rust protection must be flushed out.
- Never use shop air to blow out a tube, hose or reservoir as the air supply may not be “clean” air.
- Filter caps should be kept clean
- Hydraulic assembly areas should be free of airborne contaminants.
- If components are stored in a cold environment, be sure to remove any condensation that may occur as components warm up.
- If storage is prolonged, components, may need to be rust proofed.

Fluids

- Hydraulic fluid should be filtered to ISO 18/13 or better for initial fill.
- Water and hydraulic fluid do not mix; water is considered a foreign chemical contaminant
- Any surface in contact with hydraulic fluid must be clean and dry.
- Random sampling should be taken from hydraulic system on vehicles ready to ship to ensure cleanliness level meets ISO 18/13 or better.

Exposed Surfaces

- Exposed cylinder rods should be handled with care to avoid scratches and dents.
- Motor and pump shafts should be kept clean and free of physical damage. Splines should be coated with anti-seize compound or grease before assembly. Tapered shafts should also be protected from physical damage to shaft and coupling ID.

Recommended Start-up Procedure for New or Rebuilt Pump or Motor

Before installing a new or rebuilt pump or motor, back out the main relief valve until the spring tension on the adjusting screw is relaxed. This will avoid the possibility of immediate damage to the replacement unit in the event that the relief valve setting has been increased beyond the recommended operating pressure prior to removing the old unit.

Before connecting any lines to the pump or motor, fill all ports with clean oil to provide initial lubrication. This is particularly important when the unit is located above the oil reservoir.

After connecting the lines and mounting the replacement unit, operate the pump or motor for at least two minutes at zero pressure at the lowest possible RPMs. During this break-in period, the unit should run free and not develop an excessive amount of heat. If the unit operates properly, the speed and the pressure can then be increased to the normal operating settings.

Reset the main relief valve to its proper setting while the pump is running at maximum operating engine (motor) speed for the vehicle.

ALWAYS USE AN ACCURATE GAUGE WHEN ADJUSTING THE RELIEF VALVE PRESSURE SETTING.

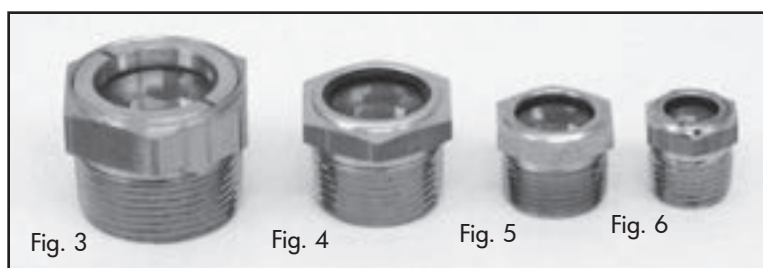
PROBLEM	PROBABLE CAUSE	REMEDY
Excessive pump noise	Low oil level in the reservoir Air in the system Vacuum condition Oil too thick Cold weather	Fill reservoir to the proper level with the recommended transmission fluid. DO NOT over fill or damage may result. Open reservoir cap and operate hydraulic system until purged. "bleed" hydraulic lines at the highest point downstream of auxiliary pump and while system is under pressure. Check inlet (suction) line and fittings for leaks. Check auxiliary pump function. Be certain correct type of oil is used for refilling or adding to the system. Run hydraulic system until unit is warm to the touch and noise disappears.
Pump overheating	Internal leakage Heat exchanger not functioning (if so equipped) Fluid level low Relief valve and compensator settings	If established that excessive internal leakage is evident, return the vehicle to maintenance shop for evaluation and repair. Locate trouble and repair or replace. Add oil to operating level. Set relief valve and compensator in proper sequence to match schematic
System not developing pressure	Relief valve open (if so equipped) Compensator mis-adjusted Loss of fluid internally (slippage)	Replace one or both. Do not attempt to repair cartridges, they are factory assembled and preset. Return vehicle to maintenance shop for repair of hydraulic system.
Loss of fluid	Ruptured hydraulic lines Loose fittings Leaking gaskets or seals in pump of circuit	Check all external connections, tubing and hoses. Tighten connections, replace ruptured tube or hose. Observe mating sections of hydraulic for leaks. Replace seals or gaskets if possible. Replace seals or gaskets if possible.
Miscellaneous	Sheared shaft key Disconnected or broken drive mechanisms	Locate and repair.

PROBLEM	PROBABLE CAUSES	REMEDY
Vibrator will not run	Power source not connected to vibrator Push button or solenoid not functioning Vibrator not grounded properly (DC only) Vibrator failure	Check all connections. Replace component. Remove vibrator from mount and clean any paint, heavy rust, etc. from mounting surface. Add ground strap from truck box to frame. If warranty is still in effect, contact factory.
Vibrator noisy	Vibrator mounting bolts loose Broken welds on mounting assembly Motor brushes (DC only) on bearings worn	Re-torque mounting bolts. Repair welds. Repair or replace.
Fluid leakage (hydraulic only)	Loose fittings.	Replace one or both. Do not attempt to repair cartridges, they are factory assembled and preset. Return vehicle to maintenance shop for repair of hydraulic system.
Fluid in housing (hydraulic only)	Motor seal failure.	Check all connections, and replace if necessary.
Excessive back pressure (hydraulic only)	Running equipment on return line. Return line too small. Cause drain not used.	Run dedicated return line. Use 3/4" (19.05 mm) or larger line. Run 1/2" (12.7 mm) or larger line from tank to case drain.
Pressure spikes (hydraulic only)	Running equipment from pressure line. Turning on pressure with oil flow set on max. Running system without a pressure relief valve before vibrator, or instant start when vibrator is cold.	Run dedicated pressure line for vibrator with flow control valve and follow plumbing diagram.
Over-speeding (hydraulic only)	Running system without controlling oil flow to vibrator.	Set max. oil flow to vibrator at or below max. rated G.P.M.

TECH TIP: Sight glasses can become discolored or damaged, leaving your equipment at grave risk should protective oil or hydraulic levels drop unexpectedly. By stocking replacement sight glasses, you can always have a clear view of your unit's vital fluids.

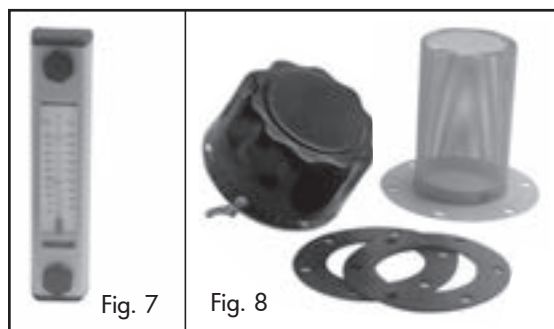
Sight Glasses

Part No.	Description
1320155	2" (51 mm) sight glass and o-ring (Fig. 1)
1230634S	Sight glass used on Hibon 8702 blower (Fig. 2)
1230065	1-1/4" (31.7 mm) sight glass for Roots 10" (254 mm) blower (Fig. 3)
1230021	1" (25.4 mm) sight glass — drive end (Fig. 4)
1230094	3/4" (19.05 mm) sight glass for Roots blower — driven end (Fig. 5)
1230066	1/2" (12.7 mm) sight glass — drive end (Fig. 6)
1320856	4" (101 mm) sight glass (not shown)



Hydraulic Tank Spare Parts

Part No.	Description
70270	5" (127 mm) sight gauge with temperature for hydraulic tank (Fig. 7)
1201324	Filler breather cap for hydraulic tank. Includes gasket and screen. (Fig. 8)
45699	Sight glass for hydraulic tank (Fig. 9)



Tachometer Gauges

Part No.	Description
1191173	Tachometer gauge (engine flywheel) with 80-160 teeth — requires magnetic sensor 1191162 (Fig. 1)
1191161	Tachometer gauge with 44-80 teeth — requires magnetic sensor 46159 (Fig. 2)
70140C	Tachometer gauge — requires magnetic sensor 46159B (Fig. 3)
66711G	Tachometer gear, half - 2 required for completer (for DANA)
66711F	Tachometer gear, half - 2 required for completer (for OMSI)

Related Items

See Page H-7 for Tach Sensors.



Fig. 1



Fig. 2



Fig. 3

Hydraulic Gauges

Part No.	Description
20971	Bottom-mounted hydraulic pressure gauge — 3000 psi (207 bar) (Fig. 4)
1200352	Panel-mounted hydraulic pressure gauge — 3000 psi (207 bar) (Fig. 5)
46846D	Bottom-mounted hydraulic pressure gauge — 5000 psi (345 bar)



Fig. 4



Fig. 5

Vacuum Gauges

Part No.	Description
42645E	2-1/2" (63.5 mm) vacuum gauge with glycerin (Fig. 6)
1140002	Vacuum gauge 0 to 30, panel mount (Fig. 7)
1140433	4" (101 mm) vacuum pressure gauge, -30 hg to 30 psi
1140152	Vacuum pressure gauge, bottom mount, -30 hg to 30 psi



Fig. 6



Fig. 7

Temperature Gauges

Part No.	Description
46568	Temperature gauge — 320°F (160°C) for 15" (381 mm) blower
43072	Temperature gauge — 450°F (232°C)
1190842	Temperature gauge — 440°F (227°C) for 18" (457 mm) or 27" (686 mm) blower (Fig. 1)

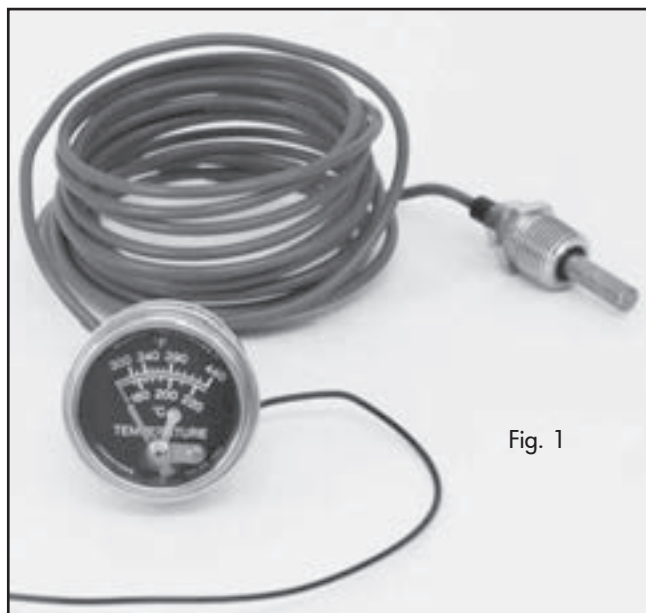


Fig. 1

TECH TIP: Guzzler temperature gauges have a remote sensing bulb connected to the gauge head by a sealed capillary system. **DO NOT CUT THIS CAPILLARY OR BEND AT A SHARP ANGLE.** The sensing bulb and capillary are filled with a liquid. When heat is applied to the sensing bulb the liquid turns to a vapor which exerts pressure against the diaphragm movement of the gauge. This movement is read on the dial face as temperature. Temperature gauges are effective preventive maintenance tools. For optimum performance, check these tools periodically: look for frozen pointers, kinked/worn tubing, broken wiring or loose connections. Replace damaged/worn parts; clean/repair as necessary.

Pressure Gauges

Part No.	Description
46846	5000 psi (345 bar) pressure gauge — rear port (Fig. 2)
46811U	Air pressure gauge with switch used on NX units (Fig. 3)

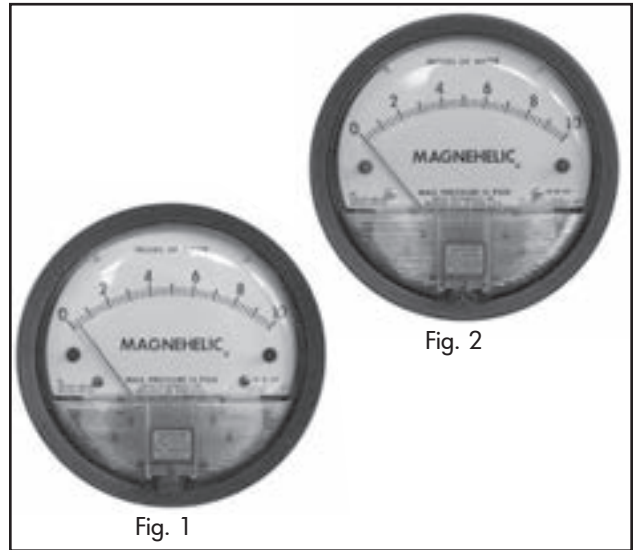


Fig. 2

Fig. 3

Magnehelic Gauges

Part No.	Description
1140078	Magnehelic gauge, 0-10" (0-254 mm) water column (Fig. 1)
1140003	Magnehelic gauge, 0-100" (0-2540 mm) water column (Fig. 2)



TECH TIP: Guzzler supplied magnehelic gauges require no lubrication or periodic service. Keep case exterior and cover clean. Occasionally disconnect pressure lines to vent both sides of gauge and re-zero. If your magnehelic gauge does however fail to function properly here are some things to look for: 1) Make sure the duplicate pressure port is not plugged. 2) Diaphragm may be ruptured from overpressure. 3) Fittings or sensing lines may be blocked, pinched or leaking. 4) Cover loose or O-ring damaged or missing. 5) Pressure sensor improperly located. 6) Ambient temperature may be below 20°F (-7°C).

Blower Temperature Gauge

Part No.	Description
46811T	Blower temperature gauge with switch used on NX units



Brass Lever Gate Valve (Fig. 1)

Part No.	Description
40019A	3" (76 mm) with handle
40019B	4" (101 mm) with handle
40019H	6" (152 mm) with handle



Fig. 1

Valve Handle (Fig. 2)

Part No.	Description
40019C	Handle for 3" (76 mm) valve
40019E	Handle for 4" (101 mm) valve
40019L	Handle for 6" (152 mm) valve

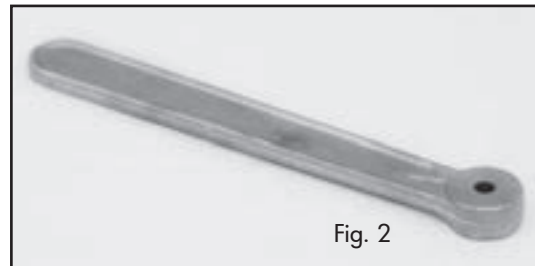


Fig. 2

Brass Ball Valve

Part No.	Description
1150135	1/4" (6.3 mm) valve
1150136	1/2" (12.7 mm) valve
1150137	3/4" (19.05 mm) valve
1150138	1" (25.4 mm) valve
1150689	1-1/4" (31.75 mm) valve
47063D	1-1/2" (38.1 mm) valve
1150140	2" (51 mm) valve
1150238	2-1/2" (63.5 mm) valve
1150141	3" (76 mm) valve
1150239	4" (101 mm) valve
1201605	1-1/4" (31.75 mm) 3-way valve
150453	1" (25.4 mm) 3-way valve



Butterfly Valve (Air-Actuated)

Part No.	Description
1150682	2-1/2" (63.5 mm) valve
1151109	3" (76 mm) valve
1151097	4" (101 mm) valve
1151102	5" (127 mm) valve
1151063A	6" (152 mm) valve
1151098	8" (203 mm) valve
1150420	10" (254 mm) valve
1150576	12" (305 mm) valve



Actuator

For air-actuated butterfly valve.

Part No.	Description
1151110	For 3" (76 mm) valve (1151109)
1151099	For 4" (101 mm) valve (1151097)
1151103	For 5" (127 mm) valve (1151102)
1151101	For 6" (152 mm) valve (1151063A)
1151100	For 8" (203 mm) valve (1151098)

Valve Seal Kit

For air-actuated butterfly valve.

Part No.	Description
1651948	For 4" (101 mm) valve (1151097)
1651962	For 5" (127 mm) valve (1151102)
1651956	For 6" (152 mm) valve (1151063A)
1651953	For 8" (203 mm) valve (1151098)

Disc Seal Kit

For air-actuated butterfly valve.

Part No.	Description
1651947	For 4" (101 mm) valve (1151097)
1651960	For 5" (127 mm) valve (1151102)
1651959	For 6" (152 mm) valve (1151063A)
1651952	For 8" (203 mm) valve (1151098)

Valve Body Assembly

For air-actuated butterfly valve.

Part No.	Description
20861A	For 4" (101 mm) valve (1151097)
20980	For 5" (127 mm) valve (1151102)
20980B	For 6" (152 mm) valve (1151063A)
1152079	For 8" (203 mm) valve (1151098)

Butterfly Valve (Manual)

Part No.	Description
1151111	3" (76 mm) valve
1151104	Handle for 3" (76 mm) valve
20861A	4" (101 mm) valve
44676	Handle for 4" (101 mm) valve (Fig. 1)
20980B	6" (152 mm) valve
44730B	Handle for 6" (152 mm) valve
1150134	8" (203 mm) valve
1150656	10" (254 mm) valve
1150722	12" (305 mm) valve

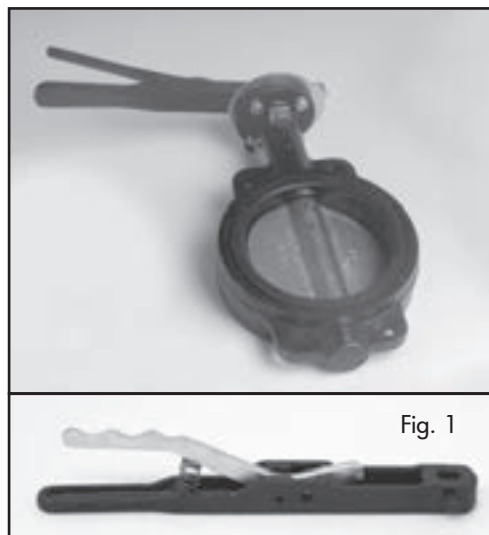


Fig. 1

Knifegate Valve

Manual carbon steel valve.

Part No.	Description
1150524	4" (101 mm), flange to flange
1150525	6" (152 mm), flange to flange
1150429	4" (101 mm), flange to male pipe threads
1150430	6" (152 mm), flange to male pipe threads
1150430A	6" (152 mm), TTMA flange



Knifegate Valve (Air-Actuated)

Part No.	Description
1150974	4" (101 mm) valve
1150571	6" (152 mm) valve
1150460	8" (203 mm) valve
1150311	10" (254 mm) valve



Knifegate Valve (Manual)

Part No.	Description
1150774	3" (76 mm), hand wheel actuated
1150204	4" (101 mm), hand wheel actuated
1150145	6" (152 mm), hand wheel actuated
1150326	8" (203 mm) valve
1150146	10" (254 mm), hand wheel actuated
48257	4" (101 mm) TTMA flangw
46347	10" (254 mm), knife valve Dzurik KNF
1150550A	8" (203 mm) Valve seat kit

Dezurik Valve (Fig. 1)

Part No.	Description
1150544E	12" (305 mm) valve, KGC series
1150544	16" (406 mm) valve, knifegate

Dezurik Valve Blade (Fig. 2)

Part No.	Description
1150747	12" (305 mm) blade
1150529	16" (406 mm) blade

Dezurik Valve Packing (Fig. 3)

Part No.	Description
1250120	3/4" (19.05 mm) packing for liquid ring pump
1250329	1/2" (12.7 mm) Teflon® packing

Dezurik Valve Seats

Part No.	Description
1150544F	For 12" (305 mm) valve, KGC series
1150589	Viton® for 12" (305 mm) valve (Fig. 4)
1150654	Viton® stainless steel for 12" (305 mm) valve
1150733	Viton® stainless steel for 12" (305 mm) valve
1151081	High-temp for 12" (305 mm) valve
1151092	For 12" (305 mm) valve, KGL series (Fig. 5)
1250335	For 12" (305 mm) valve, plastic .54" x 11.88" OD x 10.63" ID (13.7 mm x 301.7 mm x 270 mm) (Fig. 6)
1250124	O-ring type for 16" (406 mm) valve
1250343	For 16" (406 mm) valve, Teflon® .515" x 15.595" OD x 13.75" ID (13.1 mm x 396.1 mm x 349 mm)

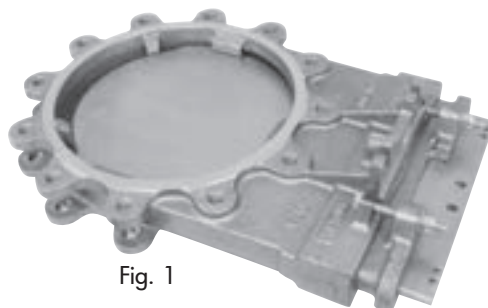


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

Kunkle valves are essential to maintain the proper vacuum rating for your specific blower and protecting against overheating. Pressure relief valves are essential to properly maintain the safe working pressure of your vacuum unit.

Kunkle Valve

Part No.	Description
42633	3" (76 mm) vacuum relief valve — preset at 15" Hg (381 mm/Hg) (Fig. 1)
1350982	3" (76 mm) valve preset at 18" (457 mm)
1140263	3" (76 mm) pressure relief valve preset at 14.5 psi (.99 bar)
1140064	2" (51 mm) pressure relief valve (Fig. 2)



Fig. 1



Fig. 2

Safety Screen Basket

Part No.	Description
1150147	3" (76 mm) for vacuum relief valve
1150148	4" (101 mm) for vacuum relief valve
1150547	6" (152 mm) for vacuum relief valve
1150247	8" (203 mm) for vacuum relief valve
1150850	10" (254 mm) for vacuum relief valve



Directional Control Valve

Part No.	Description
1140265	Pneumatic directional control valve



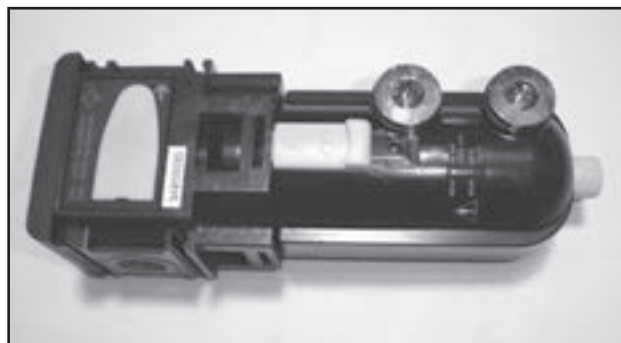
Air Fitting Manifold

Part No.	Description
1140465	Used on NX units



Air Filter

Part No.	Description
1140458	1/2" (12.7 mm) NPT — used on NX units

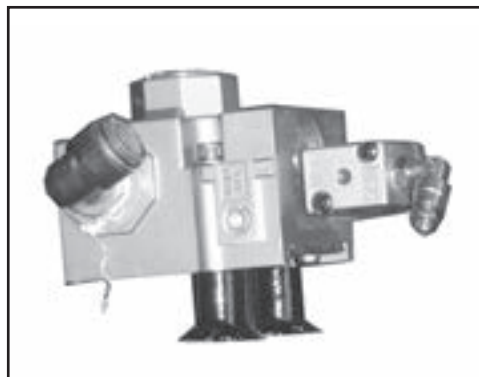


TECH TIP: Proper air filter maintenance is critical for component operation. Condensation during the compression of air and water vapor can cause contaminants in the lines. These particles need to be removed before they reach the pneumatic equipment, such as valves and cylinders. Particles can damage and clog small orifices in the equipment unless they are filtered out. Filters separate the water droplets and particles from the air before they reach your pneumatic equipment.

Air Valve

Used to engage and disengage fluidizing nozzles on NX baghouses.

Part No.	Description
1140460	2-way air valve



Air Shifter

Part No.	Description
1140074	With one supply 1 delivery for PTO
1140048	With one supply 2 delivery for TC



Notes:

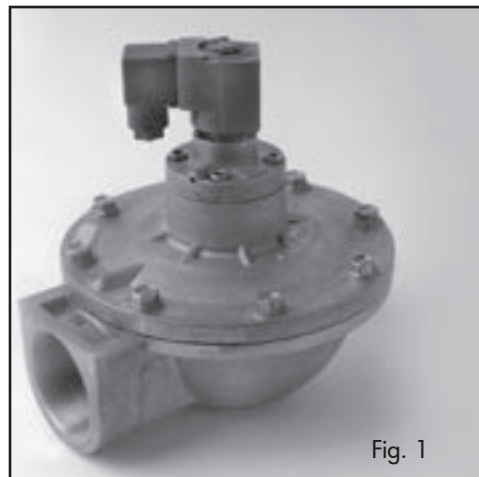
The air cannon is used to clean the filter bags and filter cartridges. The air cannon expels a high pressure burst of air internally into the bags or cartridges to propel debris from the filter media.

Air Cannon Solenoid (Fig. 1)

Part No.	Description
1191505	Solenoid valve — 12V
1140462	2" (51 mm) NPT Solenoid valve — 12V
1140462B	Repair kit for 1140462

Air Cannon Tank

Part No.	Description
1140459	Reservoir tank — 14 gallon (53 liters) capacity
1140007	Air tank relief valve — 150 psi (10 bar), 50 cfm
1250296	O'Ring, 223



Related Items

See Page L-4 for Air Cannon field modification.

Air Cannon Retrofit Kit (Classic)

Includes all required parts for air cannon upgrade.

Part No.	Description
1490710E	For a Guzzler Classic unit

Air Cannon Retrofit Kit (ACE)

Includes all required parts for air cannon upgrade.

Part No.	Description
1490710F	For a Guzzler ACE unit



Pressure Transducer

High/Low pressure switch for pulsation system.

Part No.	Description
1190017	Pressure transducer
1140443	Air Dryer
1651775A	Element Kit, Air Dryer Dessicant



Relay

Control timer for pulsation system.

Part No.	Description
1191109	8-pin time-delay relay for air cannon — 12V
1191157	8-pin time-delay relay for XCR timer — 12V
46344L	Relay - time delay on make, DIP SW



Skinner Valve

Air supply valve for pulsation system.

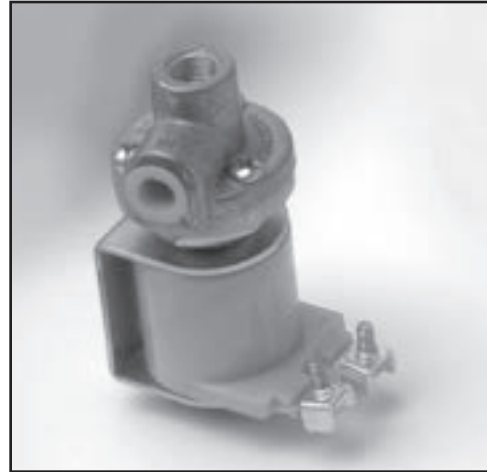
Part No.	Description
1140461	1/2" (12.7 mm) NPT solenoid valve — 12V



Solenoid Valve

Old style pulsation.

Part No.	Description
1190011	1/8" (3.2 mm) NPT solenoid valve — 12V



Diaphragm Valve

Old style pulsation.

Part No.	Description
1140020	1" (25 mm) valve



Field Modification of Air Cannon — Guzzler and ACE Models

Air Cannon Retrofit Parts List		
Part Number	Description	Quantity
10453K	Street elbow 2" (51 mm) 90 degree	1
10464R	Pipe nipple, 2" (51 mm) close	1
1140462	Valve, solenoid, 2" (51 mm) NPT	1
1280167	Double bolt clamp, 2" (51 mm)	2
16486C	Pipe coupling, 4" (102 mm)	1
20378	Reducer bushing, 4" x 2" (102 mm x 51 mm), hex	2
43783	Hose barb coupling, 2" (51 mm)	2
46809	Hose, hyd. 2" (51 mm) I.D. SAE100 R4	6 ft.

The field modification of the air cannon, both in the Guzzler and the ACE models, requires the removal of the internal parts of the air cannon. The only parts that are reused are the air cannon tank, the pop off valve, the drain cock and some of the fittings.

Essentially the ACE and the Guzzler air cannons are the same, the difference being in the way they are mounted on the unit and the plumbing to accommodate the two baghouses on the ACE as opposed to the single, large baghouse on the Guzzler.

For safety and ease of working, it is recommended that the air cannon be removed from the truck and placed on a workbench to complete this modification.

REMOVAL

1. Disconnect the 1/2" (12.7 mm) air supply hose to the air cannon at the solenoid.
2. Disconnect the electrical pigtail on the solenoid at the two-wire connector.
3. Disconnect the 1" (25.4 mm) exhaust hose at the solenoid (if so equipped).
4. Disconnect the 1/4" (6.4 mm) moisture drain line at the bottom of the air cannon tank (if so equipped).
5. Remove the 3" (76.2 mm) discharge hose at the air cannon end (Guzzler only).
6. Remove the two 2" (51 mm) discharge hoses at the air cannon end (ACE only).
7. Support the air cannon with a suitable sling and crane and remove the (4) nuts and bolts securing the air cannon to the debris body (Guzzler) or the baghouse (ACE).
8. Lift the air cannon from the truck and place it on a workbench.

Field Modification of Air Cannon — Guzzler and ACE Models (continued)

DISMANTLING

1. Unscrew the 5/8" x 1-3/4" (16 mm x 44.5 mm) cap screws holding the flange to the air cannon tank and remove the flange and gasket. Discard the gasket.
2. Partially pull out the piston and carrier now exposed as far as it will go and undo the 3/4" (19 mm) hose attached to the back of the carrier. Pull out the piston and carrier assembly completely.
3. Remove the air cannon solenoid as a whole along with the fittings.
4. Unscrew the bushings at the air inlet of the tank and pull out the 3/4" (19mm) hose from the inside.

ASSEMBLY WITH NEW COMPONENTS

Note: Use Teflon® tape or paste on all pipe fitting male threads to form air tight connections.

1. Using a new gasket (1250018), reassemble the 4" (102 mm) flange removed in Step 1 above.
2. Tighten the 2" (51 mm) nipple (10464R) to the female threads on the 4" (102 mm) flange and install the air cannon solenoid (1140462).
3. Install the 2" (51 mm) street elbow (10453K) and the 2" (51 mm) barb hose coupling (43783) to the discharge port on the solenoid.
4. Push one end of the 2" (51 mm) hose (46809) on to the barb hose coupling (47383) and secure it to the barb hose coupling with a double bolt clamp (1280167).
5. Install bushings to bush the air inlet port to 1/2" (12.7 mm) and install the 1/2" (12.7 mm) 90 degree street elbow from the parts that were removed at the air inlet port of the tank (from where the old solenoid was removed).
6. Mount the air cannon on its brackets on the unit and tighten the securing clamps.
7. Attach the 1/2" (12.7 mm) air inlet hose to the elbow at the air cannon inlet port and reconnect the 1/4" (6.4 mm) moisture drain line.
8. If necessary cut the 2" (51 mm) hose to length and connect the loose end of the 2" (51 mm) hose (46809) to the fitting on the baghouse and secure it with a double bolt clamp (1280167).
9. Extend wiring to the new air cannon solenoid and complete all connections.
10. Test the air cannon operation. Correct any problems that may be found.

Notes:

Cyclone Insert Assembly

Part No.	Description
1375153	Complete (inspection port cover, set screw, wing nuts) — used on Guzzler Classic units <u>prior to</u> PWO 4379
1375154	Cyclone weldment only — used on Guzzler Classic units <u>prior to</u> PWO 4379 (Fig. 1)
1375179	Complete (inspection port cover, set screw, wing nuts) — used on Guzzler Classic units <u>after</u> PWO 4379
1375178	Cyclone weldment only — used on Guzzler Classic units <u>after</u> PWO 4379
11219455	Inspection port cover plate for clean out access on top of cyclone (4 required per cyclone)
1160576	Socket set screw used in conjunction with wing nut for inspection port cover plate (4 required per cyclone)
1170051	Wing nut used in conjunction with socket set screw for inspection port cover plate (4 required per cyclone)
1374046	Cyclone weldment only — 2nd stage of filtration on DF ACE units. Call with Guzzler serial number to confirm. (Fig. 2)



Fig. 1



Fig. 2

TECH TIP: Cyclones are an important part of the filtration process. Damage, excessive wear, holes or corrosion will disrupt the efficiency of the cyclone separator. If any of these issues exist, replace the cyclone immediately. Use a silicone caulk to seal between the mounting lip provided on the cyclone to the support plate in the cyclone chamber in the body.

45-Degree Porthole Elbow (Schedule 80 steel)

Part No.	Description
1373717	6" (152 mm) with female end — uses 8" (203 mm) flange gasket 1250020
1370085	8" (152 mm) with female end — uses 8" (203 mm) flange gasket 1250020 (Fig. 1)
1370466	8" (203 mm) with wear cap with female end — uses 8" (203 mm) flange gasket 1250020 (used in high-wear applications) (Fig. 2)
1373466	8" (203 mm) with 8" (203 mm) threaded pipe nipple — uses 8" (203 mm) flange gasket 1250020 (used with camlock connections and pressure off-load systems) (Fig. 3)
1371016	10" (254 mm) with female end — uses 10" (254 mm) flange gasket 1250021



The porthole elbow, inlet tube, and wing deflector should be inspected before every operation to protect the tank from wear and also to prevent leakage of air.

70-Degree Boom Elbow

Part No.	Description
27771	Standard (HXX)
27771B	Ceramic-lined, used in high-wear applications (HXX)
27771E	Chromium coated, used in high-wear applications (HXX)



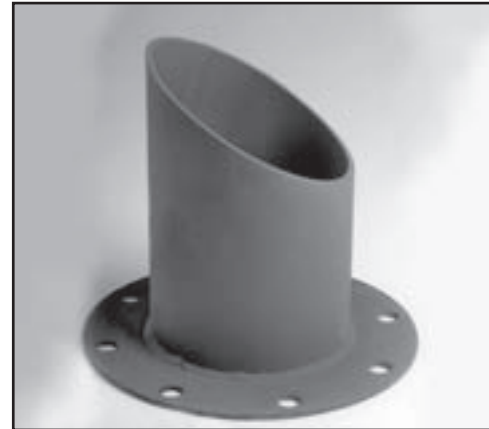
Elbows

Part No.	Description
1371236	8" (203 mm) XCR cyclone elbow for swing-out cyclone units — 8" (203 mm) female connection (Fig. 4)
1373980	8" (203 mm) High Rail boom elbow with flanged ends, clean-out ports and wear cap — used on High Rail boom option



Porthole Inlet Tube

Part No.	Description
1374355	Directs material to inlet wing deflector — used in conjunction with porthole elbow



TECH TIP: Make sure to inspect the porthole inlet tube at least on a monthly basis. Good working order of the porthole inlet tube is critical to the proper deflection of incoming material to the inlet deflector wing, and to prevent material from wearing on the tank shell and ultimately wearing a hole in the tank.

JR Wing Deflector

Part No.	Description
1374700C	Deflector — bolt-on design for easy replacement
11216216	Mounting bracket — welded to interior of debris tank

The wing deflector is a bolt-on replacement part that slows down the material to prevent excessive carry over into the cyclone and baghouse. The wing deflector also helps to distribute the material in the debris body.



Classic Baghouse Door

Part No.	Description
1470788	For 60 filter bag setup (replacement gasket 1250161R)
61368A	Spring assembly (takes 2)



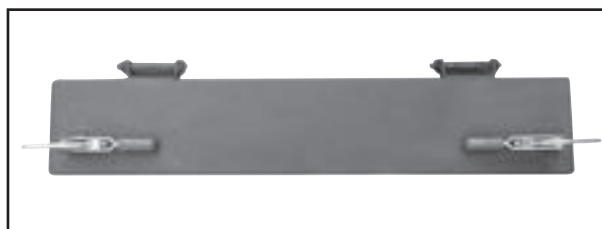
Classic Cyclone Door

Part No.	Description
1470789	For single mode CL units (replacement gasket 1250258R)



Classic Linear Wall Door

Part No.	Description
1375174	Linear wall clean-out door (replacement gasket 1250259R)



Clean-out Door

Part No.	Description
1374027	ACE side clean-out door — round (replacement gasket 1250327) (Fig. 1)
1450173	Swing bolt for ACE clean-out door — stainless steel (Fig. 2)
1450174	Swing pin for ACE clean-out door — stainless steel (Fig. 2)
1170102	Wing nut with washer for ACE clean-out door — forged steel (Fig. 2)
1470299	Classic side clean-out door — rectangular (replacement gasket 1250158R) (Fig. 3)



Dump Chute Door

Part No.	Description
1470014	LH used on early model units with square dump tubes (gasket 1250157R) (Fig. 1)
1470032	RH used on early model units w/ square dump tubes (gasket 1250157R)
1372814	12" (305 mm) door used w/ round dump tubes, gasket included (gasket 1250327) (Fig. 2)
1348169	Pin for Dump Tube

Dump Chute Door Plunger (Fig. 3)

Part No.	Description
1370016	Assembly includes: all-thread bolt, nuts and crutch tip — used as dump chute door lock-down
1321067	Crutch tip only — used on plunger assembly 1370016

ACE Baghouse Door Lid (Fig. 4)

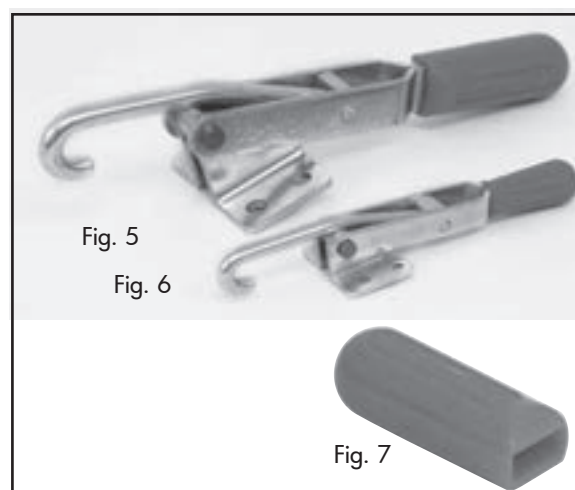
Part No.	Description
1373772	2 required per unit, gasket included (gasket 1250327)
1373775	Hinge Pin
13413800	Hinge Pin

ACE Cyclone Door Lid

Part No.	Description
1373774	2 required per unit, gasket included (gasket 1250327)
1373772	Baghouse lid, RH

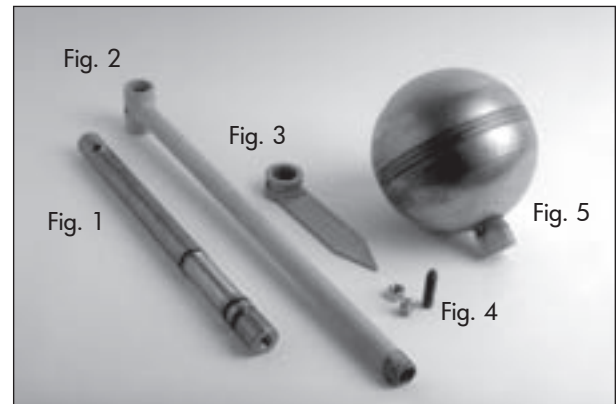
ACE Door Clamp

Part No.	Description
1320022	Used on Classic clean-out side doors (Fig. 5)
1320021	Used on round baghouse and cyclone doors (Fig. 6)
1320105	Replacement red handle used on door clamp 1320022 (Fig. 7)
1320024	Destaco lock



Rear Float Level Indicator

Part No.	Description
1490750	Assembly — includes shaft, arm, o-rings, dial, float ball, jam nut and grease fitting
1250076	O-ring used on shaft 1129470 (2 required)
1129470	Shaft — connects indicator dial to float level indicator arm, used in assembly 1490750 (Fig. 1)
1374583	Arm with 1/2" (12.7 mm) threaded connection — uses stainless steel float ball 1320541 (Fig. 2)
1372735	Indicator dial located on exterior of tank — red (Fig. 3)
1170087	Jam nut (Fig. 4)
1160475	Dog point screw (Fig. 4)
1320541	6" (152 mm) stainless steel float ball with 1/2" (12.7 mm) connection — used with arm 1374583 (Fig. 5)
1129471	Indicator bushing — carbon steel 5" x 2.5" OD x 1" ID (127 mm x 63.5 mm x 25 mm)



Side-Mounted Float Level Indicator

Part No.	Description
58099D	Assembly — includes shaft, arm, o-rings, dial, float ball, jam nut and grease fitting (Fig. 6)
37131	Float control weldment — pointed arm
37132B	Bushing assembly
40550	1/2" (12.7 mm) stainless steel flatwasher
41771	1/2" x 11/16" x 3/32" DIA o-ring (12.7 mm x 17.5 mm x 2.4 mm)
86248A	Float arm weldment
86248B	Float arm weldment
31069	Drain hose holder
45113	6" (152 mm) stainless steel float ball used with assembly 58099D
16420L	1/8" x 3/4" (3.2 mm x 19 mm) stainless steel roll pin



Float Level Indicator

Used on full-opening tailgates.

Part No.	Description
1320109	With stainless steel float ball
1320059	With plastic float ball

Float Ball (Stainless Steel)

Part No.	Description
1320456	6" (152 mm) with liquid level indicator
1320849	9" (228 mm) used on ACE units — uses float ball cage 1371777
44388	10" (254 mm) — 18 gauge, 7 lb
1320383	12" (305 mm) used on Classic units — uses float ball cage 1371525
44478	14" (355 mm) used on Classic units — uses float ball cage 1375194

Float Ball (Mild Steel)

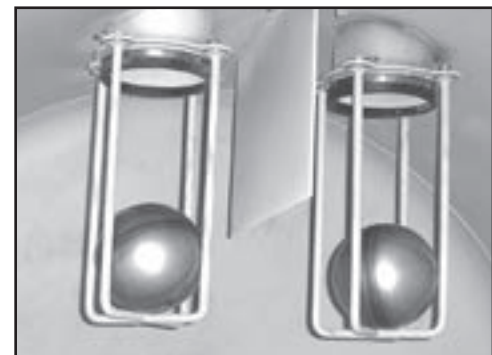
Part No.	Description
1320848	9" (228 mm) used on ACE units — uses float ball cage 1371777
1320431	12" (305 mm) used on Classic units — uses float ball cage 1371525
1320430	14" (355 mm) used on Classic units — uses float ball cage 1375194

Float Ball Cage (Mild Steel)

Part No.	Description
1371777	9" (228 mm) for ACE units
1371525	12" (305 mm) for Classic units
1375194	14" (355 mm) for Classic units
1250413	Rubber sleeve for float shut off



TECH TIP: When float balls become worn from years of service, they often fill with material and no longer float. This may cause the unit to carry liquids over into the baghouse and cyclone — resulting in over filling the unit. Check float balls monthly for any signs of wear or damage to ensure proper operation.



Silencer

For Hibon SIAV 8702.

Part No.	Description
1470881	Inlet silencer
1470881B	Inlet silencer weather screen — used on inlet silencer 1470881 (Fig. 1)
1470882	Discharge silencer — no offset
46848A	12-3/4" (324 mm) rain cap — used on discharge silencer 1470882 (Fig. 2)

Silencer

For Roots 1021 DVJ 27" Hg blower.

Part No.	Description
1470714	Inlet silencer
1470318	Discharge silencer (Fig. 3)
1470839A	Inlet silencer weather screen — used on inlet silencer 1470714 (Fig. 4)
1240343	14" (355 mm) rain cap — used on discharge silencer 1470318

Silencer

For NX 850.

Part No.	Description
1230702A	Discharge silencer (call with Guzzler serial number to confirm)
1230703A	Intake silencer (call with Guzzler serial number to confirm)
1370325	Silencer, AE, blower box mount
1240343	14" Rain cap

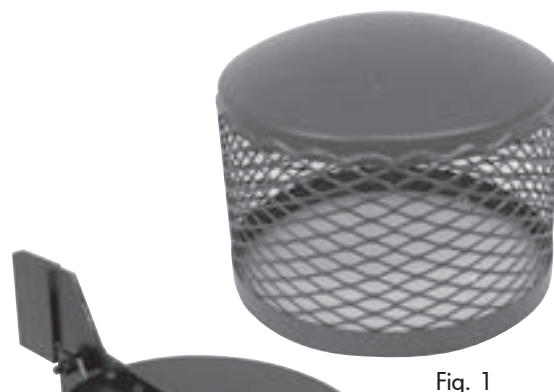


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Microstrainer (Fig. 1)

Part No.	Description
1470706	Guzzler 1' 2-3/4" (375 mm) offset
1470736	Guzzler 2' 2-3/4" (679 mm) offset
1470781	ACE 1' 2-3/4" (375 mm) offset
1470705	Center mounted

Microstrainer Basket (Fig. 2)

Part No.	Description
1370173	11.19" OD x 10.75" tall (284 mm x 273 mm) Guzzler Classic microstrainer basket
1372419	10.75" OD x 18.69" tall (273 mm x 475 mm) Guzzler ACE microstrainer basket

TECH TIP: Remove and clean the microstrainer basket weekly of any material or objects that may have collected there. The microstrainer basket acts as protection for the blower to keep any foreign objects from passing into the blower and damaging it.

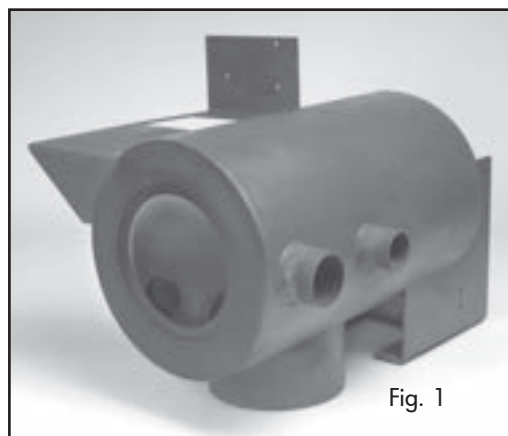


Fig. 1

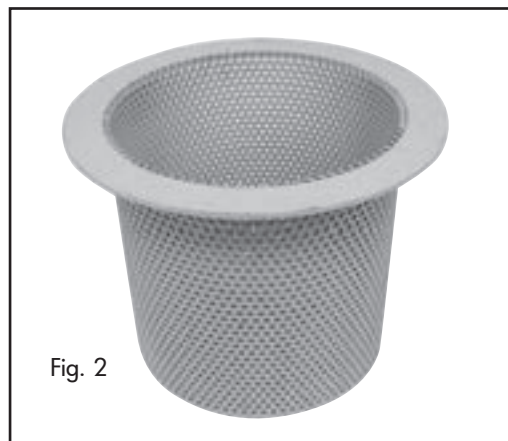


Fig. 2

Boom — Miscellaneous Parts

Part No.	Description
1370055	Boom flange weldment — used on NX units (Fig. 3)
1210558	Boom break gear (Fig. 4)
1201007	Boom bearing (Fig. 5)
1336131	Boom motor gear (Fig. 6)
116044B	SHCS, 1/2" x 2-1/4" holoch
1180070	Washer, 1/2" hi-collar
1160591B	SHCS, 1/2" x 2-1/4" UNC L9

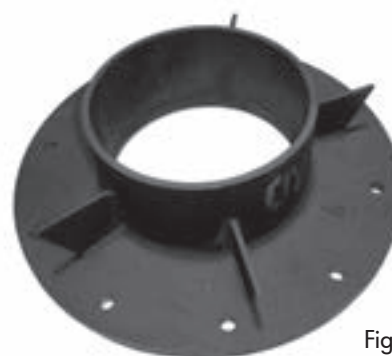


Fig. 3



Fig. 4

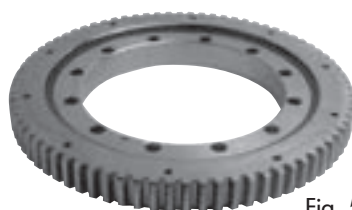


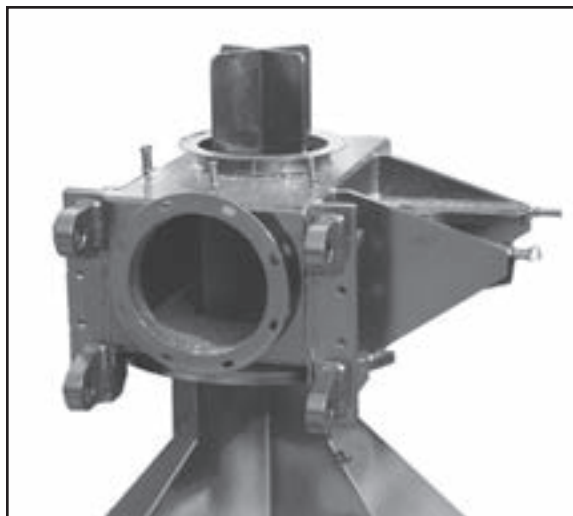
Fig. 5



Fig. 6

Boom Box

Part No.	Description
1374597	Used on High Rail, Standard Guzzler and ACE units
1122427	Boom blind flange PL 3/8" x 20-1/2" OD



ACE Tank Outlet Assembly

Part No.	Description
1374640	Tank outlet

Related Items

See Page G-5 for Float Ball Shut-off Rubber Seat.

See Page M-7 for Float Ball Cage.



Bag Hold-Down Assembly

Part No.	Description
1375516	Used on NX units



Tailgate Safety Pin (Fig. 1)

Part No.	Description
1372863	Half-opening, red

Tailgate Safety Prop

Part No.	Description
1375484	Half-opening used on 2007 and newer units, red
1374031	Full-opening

Debris Tank Safety Stand (Fig. 2)

Part No.	Description
1373701	Safety stand, new style

Tailgate Shim

Part No.	Description
11210504	3/8" x 5" x 7" (9.5 mm x 127 mm x 178 mm) (Fig. 3)
11212338	Lock bracket shim, 5" x 7" x 16 ga. (127 mm x 178 mm) (Fig. 4)
11212339	Lock pin sleeve shim (Fig. 5)

Pin-Wheel Latch

Manual pin-wheel latch assembly used on half-opening and full-opening tailgates.

Part No.	Description
1372005A	Wing bolt (Fig. 6)
1374573	Wing bolt handle (Fig. 7)
1320114	Thrust bearing (Fig. 8)
1374218	Wingnut latch kit for Guzzler w/ offload system

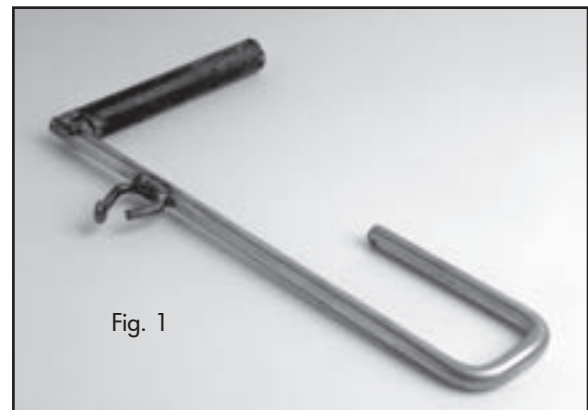


Fig. 1



Fig. 2



Fig. 3



Fig. 5



Fig. 4

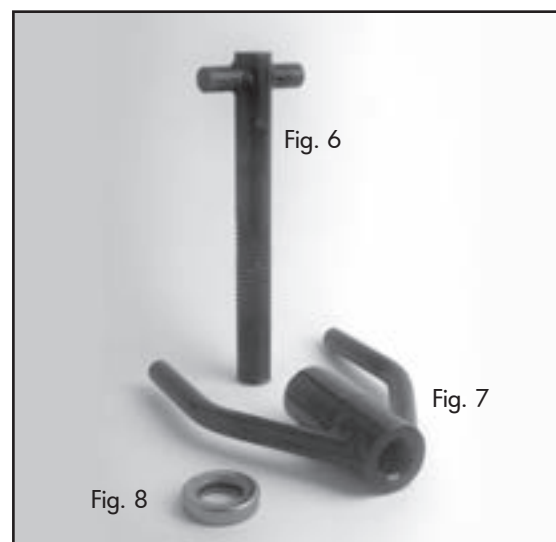


Fig. 6

Fig. 8

Fig. 7

Elbow Installation

Elbow installation from top tank exit to make/break.

Part No.	Description
1375371	Used on NX units



Make/Break Installation

Make/break transition weldment with compression joint.

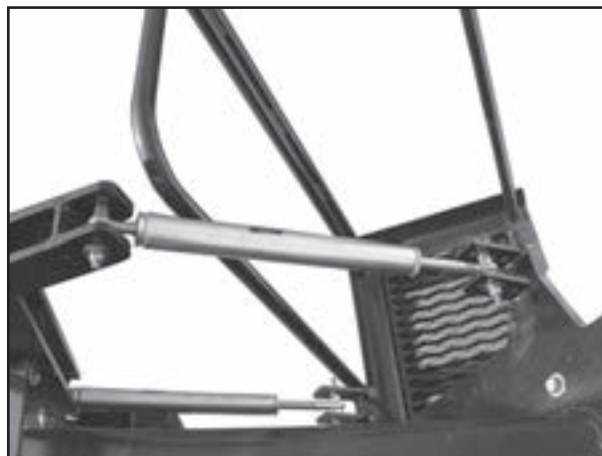
Part No.	Description
1375493B	Call with Guzzler serial number to confirm



Spring Strut Assembly

Used on early model NX units.

Part No.	Description
1353014	Assembly with rod ends



Vacuum Relief Basket (Fig. 1)

Part No.	Description
1375486	4" (101 mm)
1375487	6" (152 mm)

Vibrator Bracket

Part No.	Description
1371869	Mounting bracket for electric and hydraulic vibrators



Fig. 1

Transfer Case Driveline Cover

With access door to grease transfer case to blower driveline.

Part No.	Description
1375594A	Drivelone cover assembly, Alum.
11222211	Bracket, Driveline cover
11212637	Dumptube Hanger bracket



Static Ground Reel

Used on all units.

Part No.	Description
1190282	50' (15 m) orange cable with clamp
1190282A	25' (7.6 m) orange cable with clamp
1190282A	25' (7.6 m) Replacement cable and connector



Isolator

Part No.	Description
71098	Rubber — used on NX units (Fig. 1)
1320907	Vibration — used on control panel (Fig. 2)

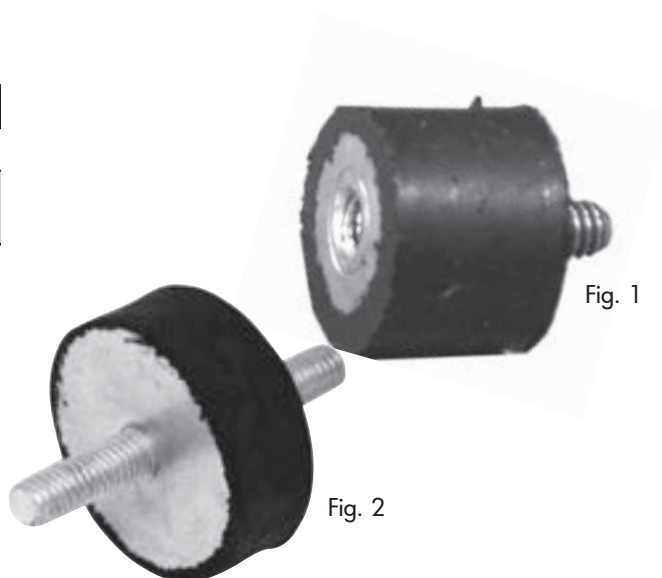


Fig. 1

Fig. 2

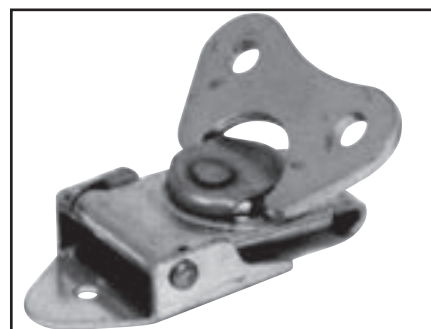
Groove Coupler

Part No.	Description
1281030	Aluminum — used on NX recovery system
1281030A	Aluminum groove / groove coupler



Butterfly Latch

Part No.	Description
1320840	Guzzler — used on the control panel



Fender Light Bracket

Part No.	Description
11220396	Fender light bracket (Fig. 3)
11220077	Fender light mount, rear
1126938	Tail light bracket

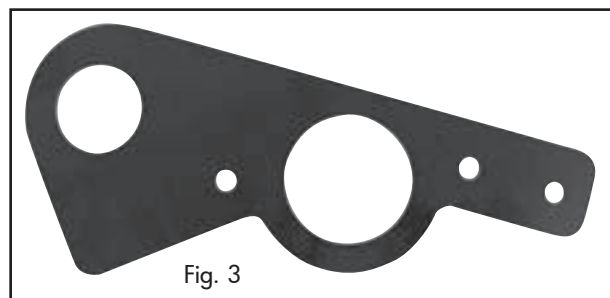
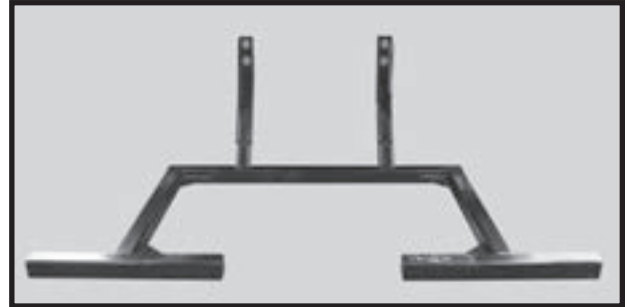


Fig. 3

Rear Bumper

Part No.	Description
1490834	Quick release — used on units with a sludge pump off-load
1373299	Bumper, Guzzler or Ace
1373515	Dumptube hanger weldment, 12" Ace
11212637	Dumptube hanger bracket, un-pai
1375483	Rope ladder weld, bolt-on Guzzler rear door platform
1373463	ladder support



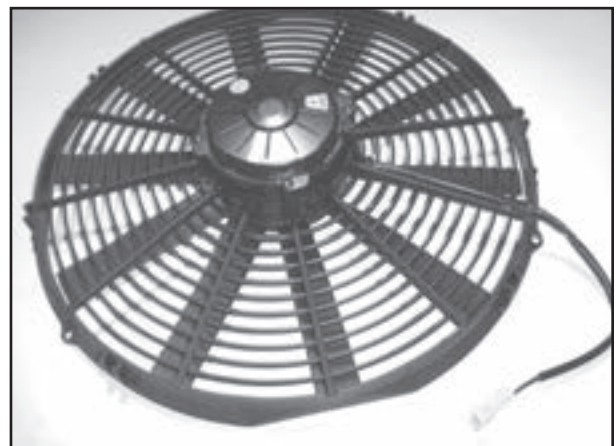
Mud Flap

Part No.	Description
1250034	FS Solutions logo — black rubber with white lettering, 24" x 36" (610 mm x 914 mm)
1290863	Spring-loaded brackets — 2 per set
46661	Anti-sail frame — sold individually, 2 required per truck



Cooling Fan

Part No.	Description
48603	Electric — used on NX sound enclosure



Tie Down

Part No.	Description
1160545	Eye bolt, 5/8" NC - 5"
1170100	Nut, eye, bail size 1/2", tap size 5/8", Max. work load 3500 lbs.
1373403	Baghouse and cyclone tie down clamp
24901	Pin - .625" diam. x 2.25"
1250345	O-ring

Ace Fenders

Part No.	Description
11219624	Conduit, Steel, 1 EMTX53.
11219625	Conduit, Steel, 1 EMTX22.500
11220176	Fender Mounting, Reinforcement
11220395	Fender bolt-on sub-frame
1374609	Fender Hanger bracket

With over 30 years experience in working with positive displacement blowers, Guzzler specializes in the supply, repair, service and maintenance of industrial blowers. Our preventive maintenance will ensure that your blowers operate at optimum efficiency and reduce the possibility of failure and breakdown.

Roots Blowers

Part No.	Description
44551A	Roots 1024 18" Hg (Fig. 1)
44551	Roots 1024 — vertical
1230080	Roots 1024 — horizontal
1230081	Roots 1021 15" Hg
1230183	Roots 1021 18" Hg
1230403	Roots 1021 DJV 27" Hg
230137	Roots 624 — vertical
230213	Roots 824 — vertical
230242	Roots 827 — vertical

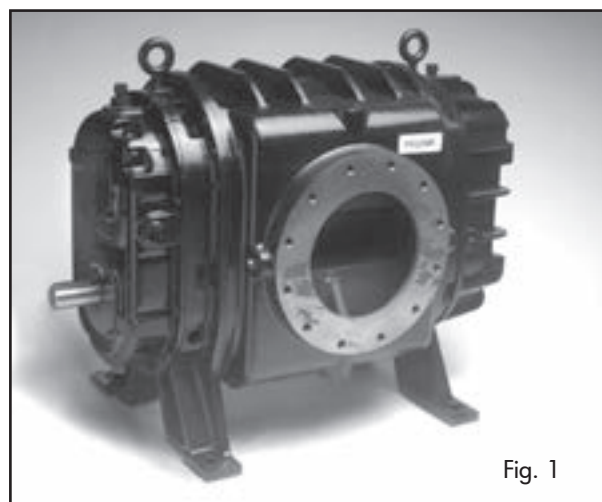


Fig. 1

Robuschi Blowers

Part No.	Description
49553	Robuschi RBDV145 - 27"

Hibon Blowers

Part No.	Description
1230700	Hibon NX850 (Fig. 2)
1230634	Hibon Tri-Lobe SIAV 8702

Holmes Blowers

Part No.	Description
43444	Holmes 1020

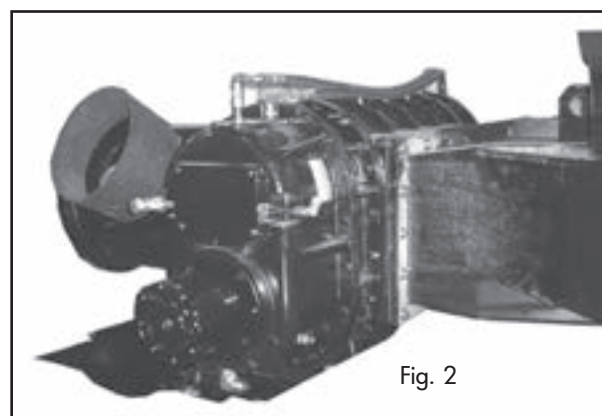
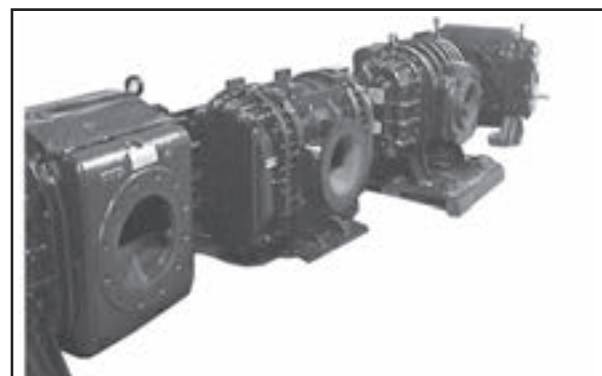


Fig. 2

Rebuilt Blowers

Part No.	Description
44551AR	Rebuilt Roots 1024 18" Hg
1230403R	Rebuilt Roots 1021 DVJ
1230700R	Rebuilt Hibon NX850
1230634R	Rebuilt Hibon Tri-Lobe SIAV 8702



Filter Element

Part No.	Description
42431B	10 micron filter for 62634M

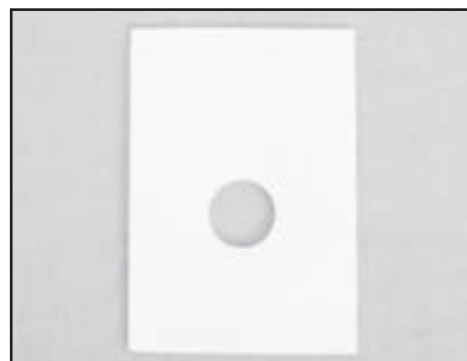
Heat Shield

Part No.	Description
1230247A	Blower heat shield — used on 1024 blowers



Foot Gasket

Part No.	Description
1250375	Teflon® foot gasket — used on 10" (254 mm) blowers



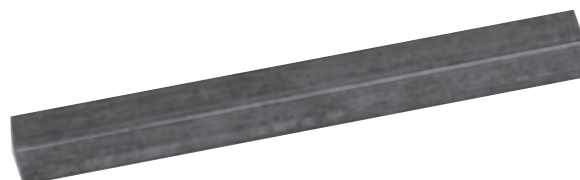
Foot Spring

Part No.	Description
1320604	Blower foot spring



Keystock

Part No.	Description
1125258	1/2" x 1/2" x 7-1/2" (12.7 mm x 12.7 mm x 190 mm)



Dana Transfer Case (Fig. 1)

Part No.	Description
1210001	Model 792
1210121	Disconnect assembly — pump side
1210122	Disconnect assembly — side without pump

Cotta Transfer Case

Part No.	Description
45446	Model 2059-3

OMSI Transfer Case

Part No.	Description
1211098	For High Rail, creep drive
48051A	With disconnect — 1:1 gear ratio
48051C	For NX — 1:1.7 gear ratio
48051AA	Air clutch kit
48051AAA	Check valve
48051AB	O-rings and seals with clutch plates kit
48051AC	O-rings and seals kit
48051AD	Air clutch rebuild kit

Remanufactured transfer cases are available.
Please call for pricing.

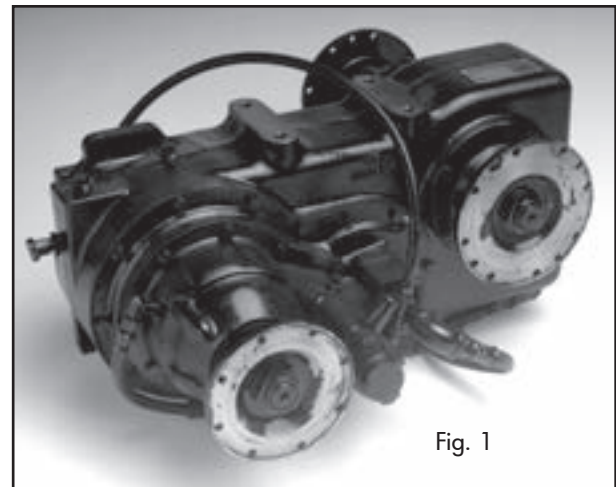
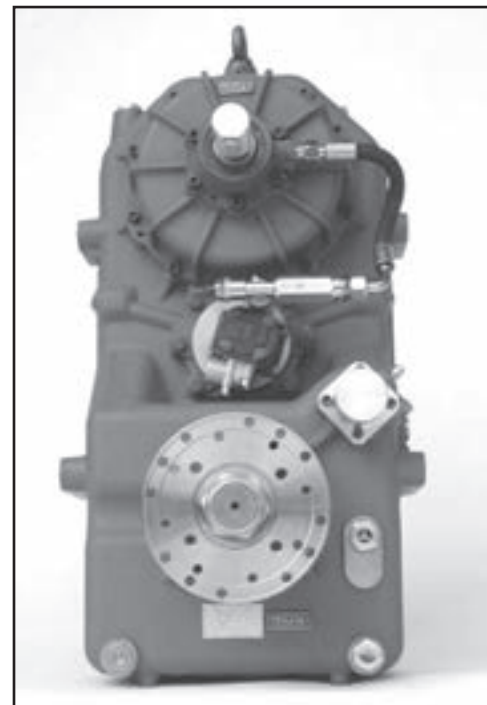


Fig. 1



Transfer Case Brackets

Used on Dana-International transfer case setup.

Part No.	Description
39225F	Mounting bracket (Fig. 1)
1291017	Mount bushing — 4 required per transfer case (Fig. 2)
1291018	Mount insert — 4 required per transfer case (Fig. 3)
61282D	Bracket (Fig. 4)

TECH TIP: To avoid any problems with Dana, OMSI or any other transfer case, always make sure you have the proper air pressure prior to attempting to shift the transfer case and follow all the shift procedures provided with your equipment. It is always better to allow a little more time when engaging and disengaging the transfer case than to allow too little.

Companion Flange

Part No.	Description
1211099	Companion flange, taperlock

Isolator

Part No.	Description
42690	Isolator



Fig. 1



Fig. 2



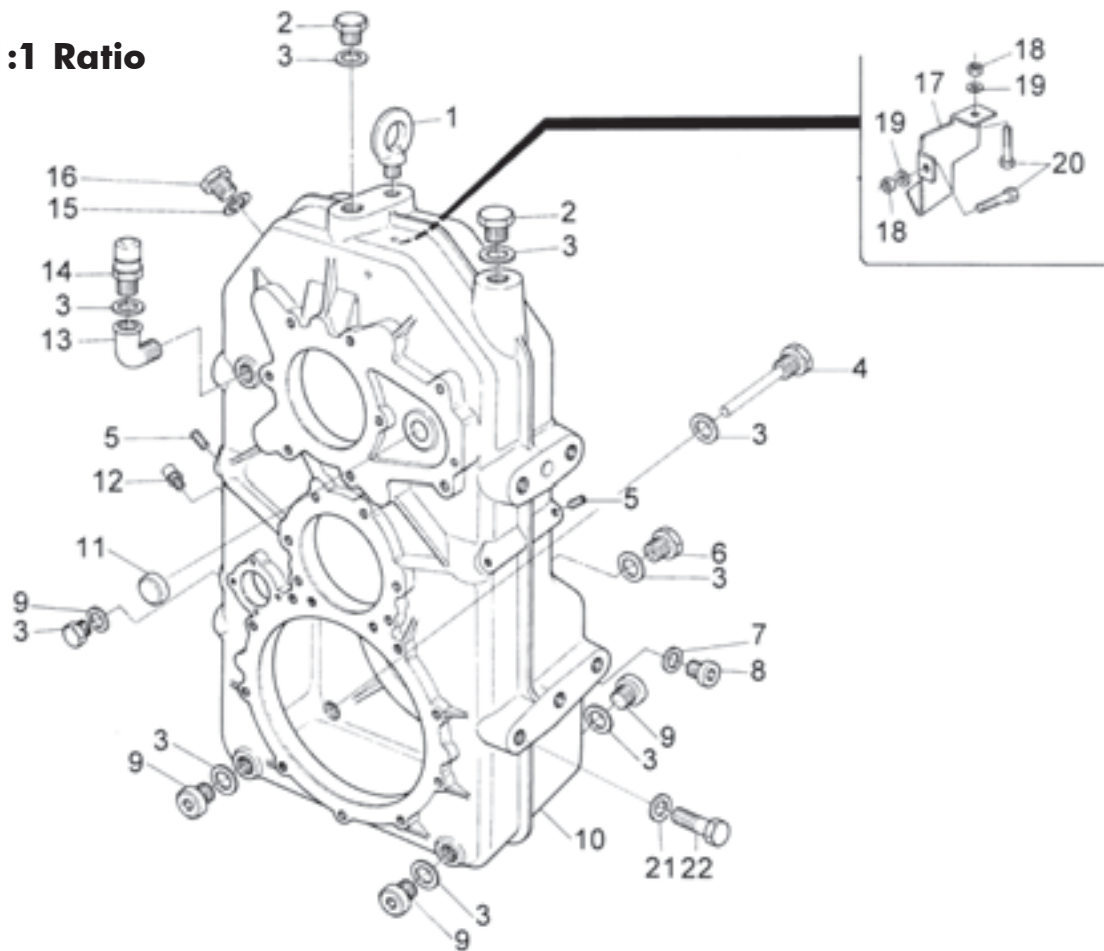
Fig. 3



Fig. 4



Housing, 1:1 Ratio



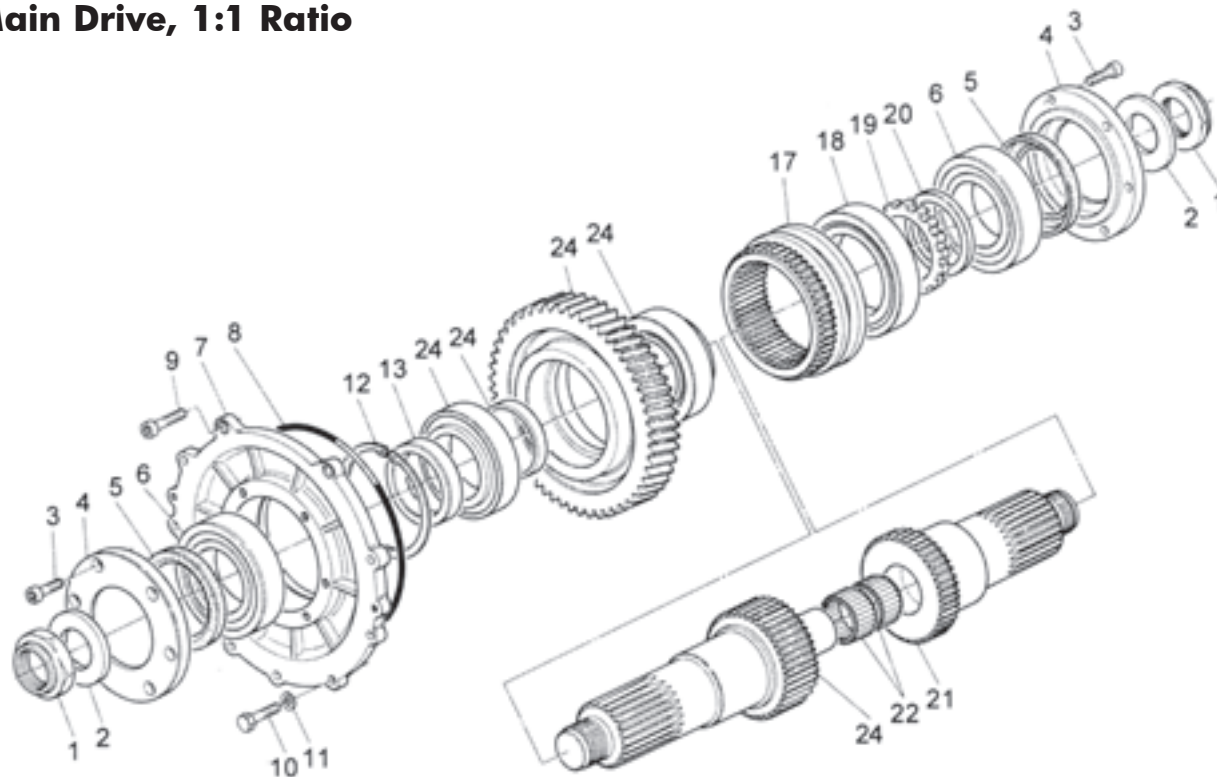
OMSI Transfer Case

Item	Part No.	Description
1	48051CJ	Eye — lifting
2	*	Plug
3	48052AB	Washer — copper
4	*	Plug — magnetic
5	*	Screw — set
6	48051AAT	Plug — drain
7	*	Washer — copper
8	*	Plug
9	*	Plug
10	*	Housing — 1:1.7 ratio
11	*	Plug — freeze
12	*	Plug
13	*	Elbow — street
14	48051AQ	Plug — breather

Item	Part No.	Description
15	48051AH	Washer — copper
16	48051AJ	Plug
17	*	Conveyer — oil lube diverter
18	*	Nut
19	*	Washer — conical
20	*	Screw — M6x20
21	*	Washer — lock
22	48051AR	Screw — M18x45

*Call factory.

Main Drive, 1:1 Ratio



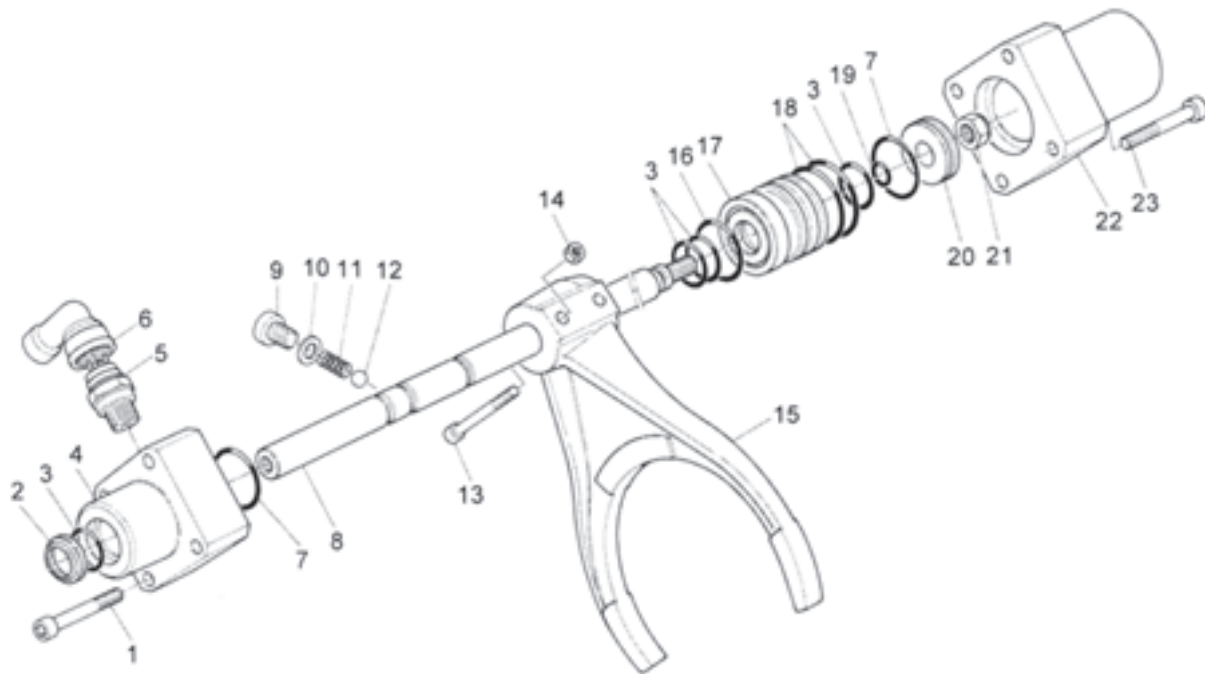
OMSI Transfer Case

Item	Part No.	Description
1	48051AU	Nut — locking
2	48052AY	Washer — spacer
3	48052AAD	Screw — M10x25
4	*	Flange — oil seal support
5	48051BJ	Seal — oil
6	48051BK	Bearing — roller
7	*	Flange — bearing support
8	*	O-ring
9	*	Screw — M10x30
10	*	Screw — M10x35
11	*	Washer — lock
12	48052AW	Ring — split
13	48051BL	Bushing — bearing spacer
14	48051BM	Bearing — roller

Item	Part No.	Description
15	48052BA	Ring — internal
16	*	Gear — input drive
17	48051AW	Ring gear — drive engagement
18	48051BN	Bearing — roller
19	48051CS	Ring — odometer sensor
20	48052AX	Spacer
21	48051CT	Shaft — output drive
22	48051BP	Bearing — roller
24	48051AV	Input gear/shaft kit

*Call factory.

Shifter Control — Main Drive



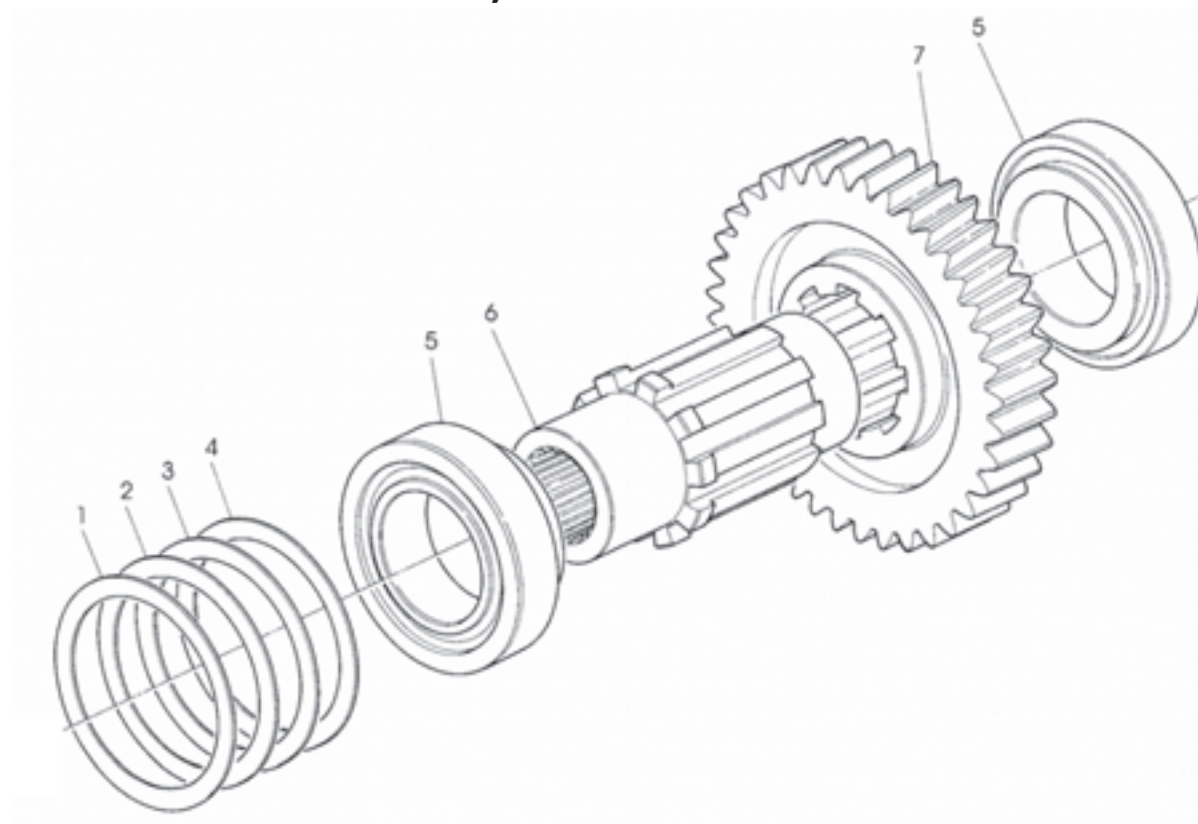
OMSI Transfer Case

Item	Part No.	Description
1	48051DC	Screw — M8x50
2	*	Seal — wiper
3	*	O-ring
4	*	Housing — shaft support
5	48051AK	Switch — shaft positioning
6	48051AM	Cover — wiring protection
7	*	O-ring
8	48051CAA	Shaft — shift control
9	*	Screw — M12x21.5
10	48052BC	Washer — copper
11	48052BD	Spring
12	48052BE	Ball — 3/8" (9.5 mm)
13	48052AG	Screw — M8x47
14	48052AH	Nut — locking

Item	Part No.	Description
15	48051BB	Fork — shifter engagement
16	*	O-ring
17	48051BH	Guide — shifter shaft
18	*	O-ring
19	*	O-ring
20	48052AU	Piston — cylinder
21	48052AM	Nut — locking
22	48052AV	Housing — cylinder
23	*	Screw — M8x45

*Call factory.

Shaft — Intermediate Drive, 1:1 Ratio

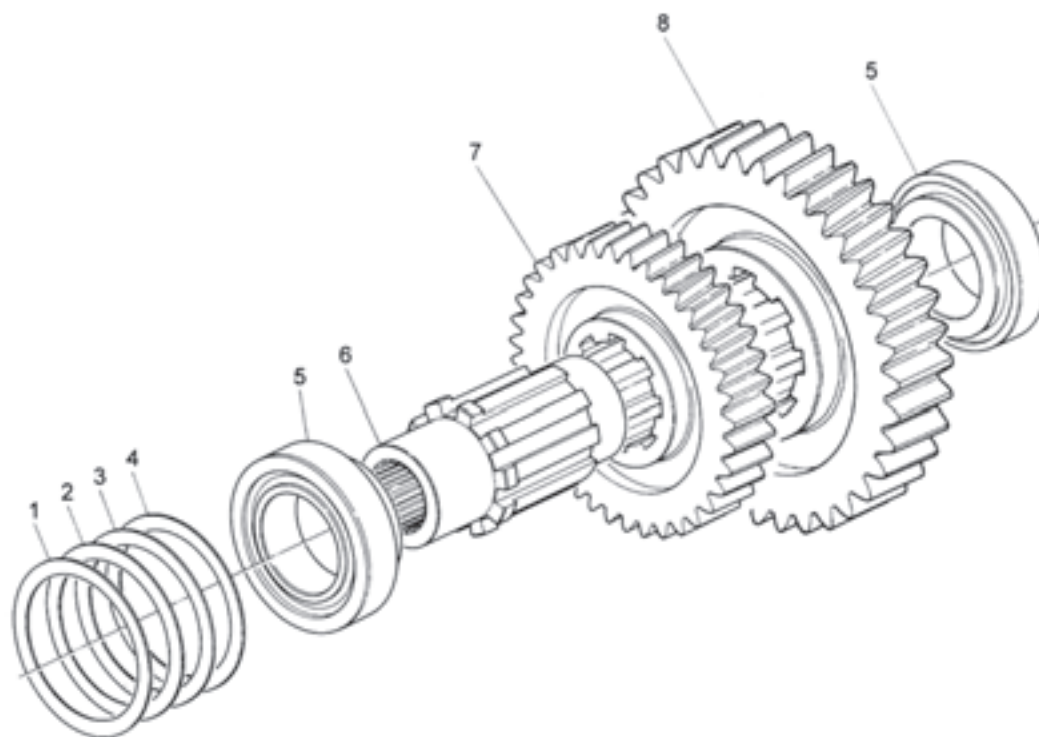


OMSI Transfer Case

Item	Part No.	Description
1	48051CZ	Shim — 0.1 mm
2	48051CW	Shim — 0.2 mm
3	48051CX	Shim — 0.3 mm
4	48051CY	Shim — 0.5 mm
5	48051BW	Bearing — roller
6	48051CU	Shaft — intermediate drive
7	*	Gear

*Call factory.

Shaft —Intermediate Drive, 1:1.7 Ratio

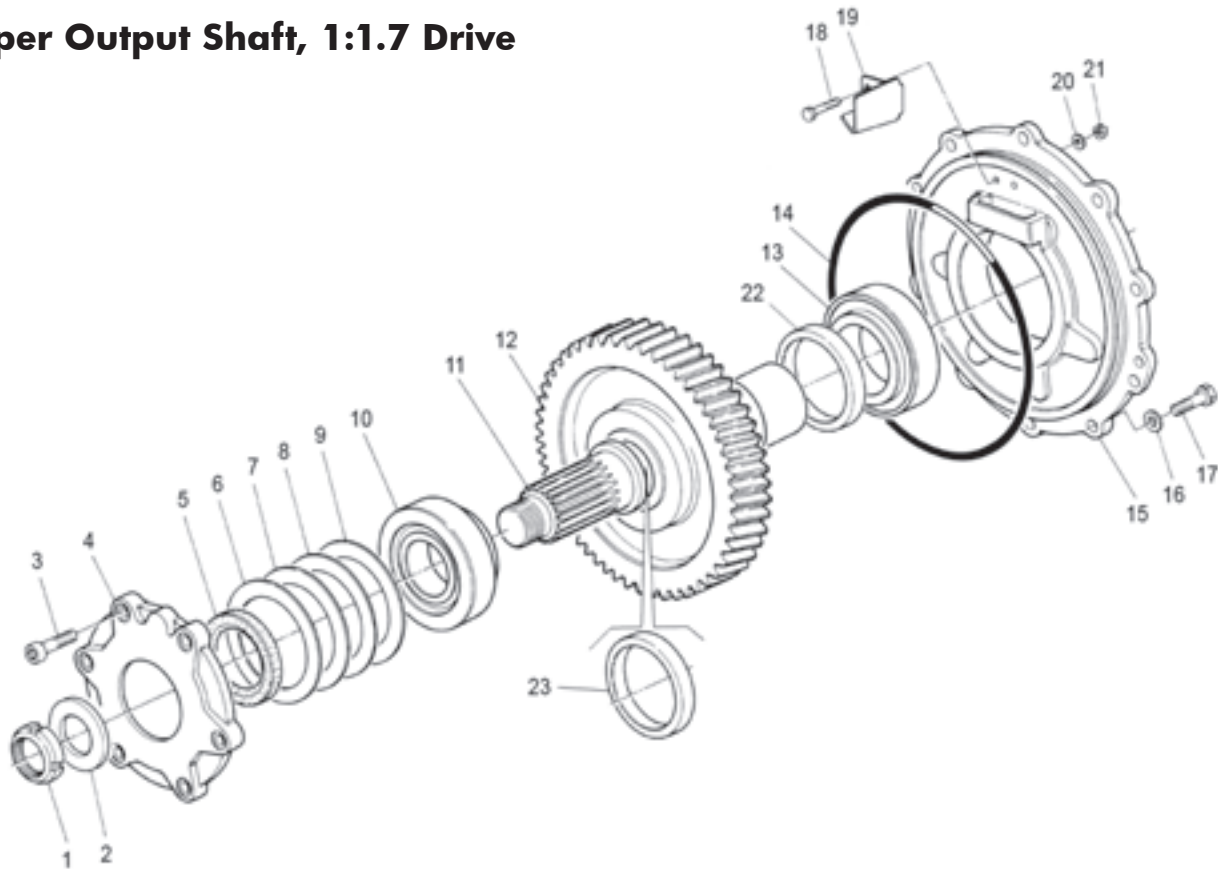


OMSI Transfer Case

Item	Part No.	Description
1	48051CZ	Shim — 0.1 mm
2	48051CW	Shim — 0.2 mm
3	48051CX	Shim — 0.3 mm
4	48051CY	Shim — 0.5 mm
5	48051BW	Bearing — roller
6	48051CU	Shaft — intermediate drive
7	*	Gear — intermediate drive
8	*	Gear — intermediate drive

*Call factory.

Upper Output Shaft, 1:1.7 Drive



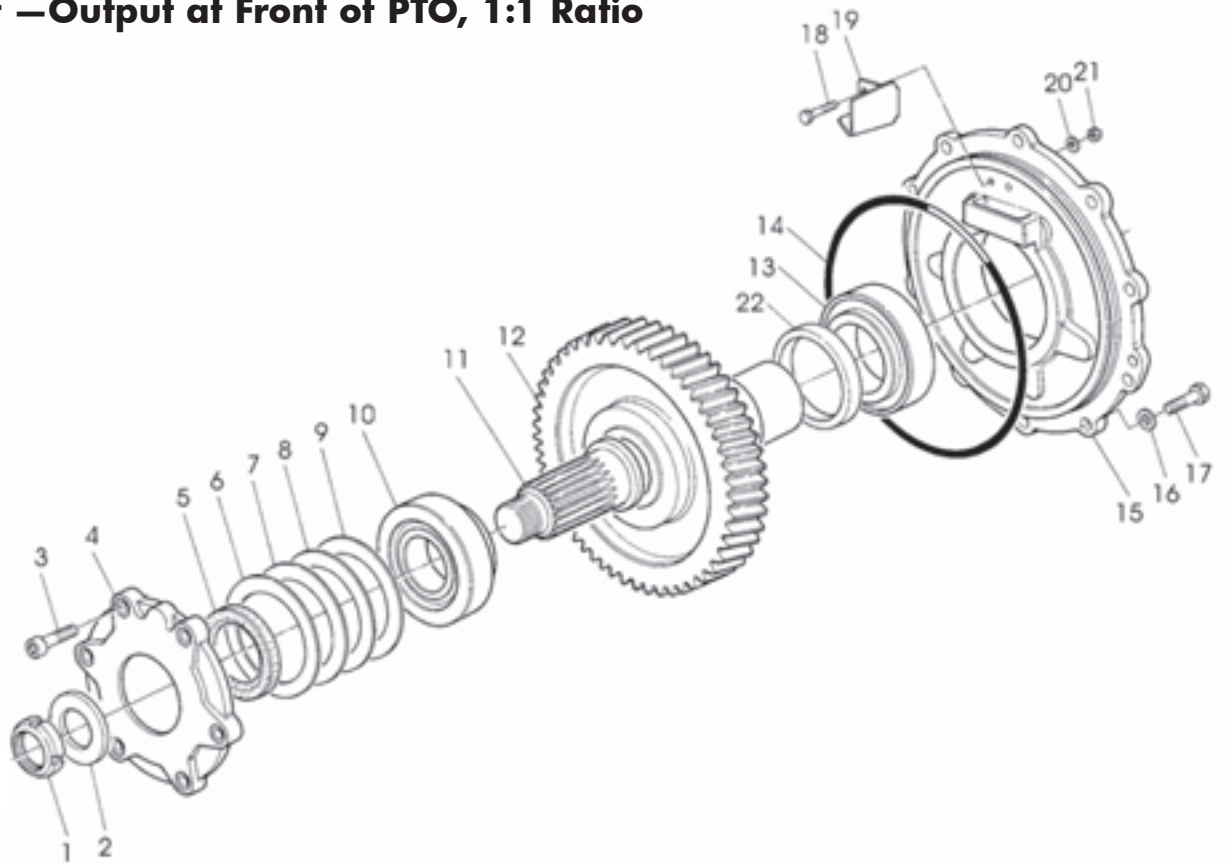
OMSI Transfer Case

Item	Part No.	Description
1	48051CB	Nut — locking
2	*	Washer — spacer
3	48052AAD	Screw — M10x25
4	*	Flange — oil seal support
5	48052AAA	Seal — oil
6	48051CZ	Shim — 0.1 mm
7	48051CW	Shim — 0.2 mm
8	48051CX	Shim — 0.3 mm
9	48051CY	Shim — 0.5 mm
10	48051BU	Bearing — roller
11	*	Shaft — output drive
12	*	Gear — output drive
13	48051BW	Bearing — roller
14	48052AO	O-ring

Item	Part No.	Description
15	*	Flange — bearing support
16	*	Washer — lock
17	*	Screw — M10x35
18	*	Screw — M6x20
19	*	Conveyer — oil lube diverter
20	*	Washer — conical
21	*	Nut — bearing
22	*	Spacer — output shaft
23	*	Spacer — output shaft

*Call factory.

Shaft —Output at Front of PTO, 1:1 Ratio



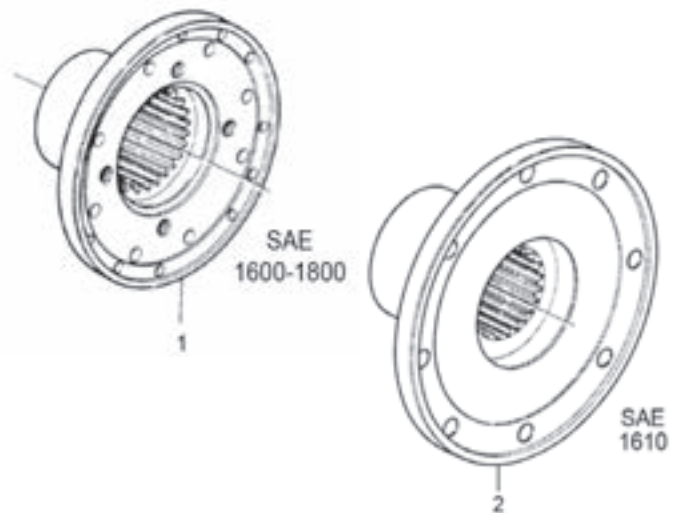
OMSI Transfer Case

Item	Part No.	Description
1	48051CB	Nut — locking
2	*	Ring — spacer
3	48052AAD	Screw — M10x25
4	*	Cover — support
5	48052AAA	Seal — oil
6	48051CZ	Shim — 0.1 mm
7	48051CW	Shim — 0.2 mm
8	48051CX	Shim — 0.3 mm
9	48051CY	Shim — 0.5 mm
10	48051BU	Bearing — roller
11	*	Shaft — output drive
12	*	Gear
13	48051BW	Bearing — roller
14	48052AO	O-ring

Item	Part No.	Description
15	*	Flange — support
16	*	Washer — lock
17	*	Screw — M10x35
18	*	Screw — M6x20
19	*	Conveyer — oil
20	*	Washer — conical
21	*	Nut — bearing
22	*	Ring — spacer

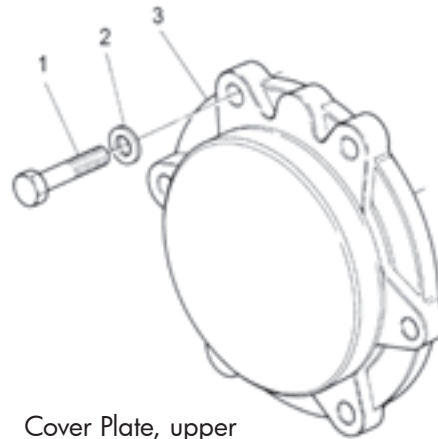
OMSI Transfer Case

Item	Part No.	Description
1	48051CP	Flange — drive SAE 1600-1800
2	*	Flange — drive SAE 1610



OMSI Transfer Case

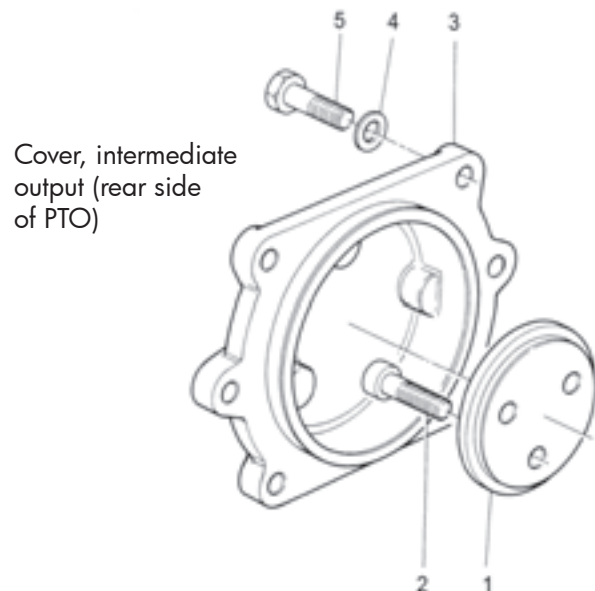
Item	Part No.	Description
1	*	Screw — M10x35
2	*	Washer — lock
3	*	Cover



Cover Plate, upper

OMSI Transfer Case

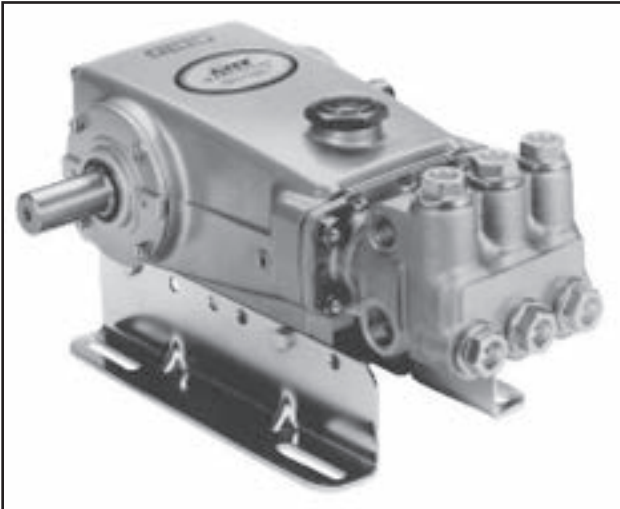
Item	Part No.	Description
1	*	Washer — lock
2	*	Screw — M10x30
3	*	Cover
4	*	Washer — lock
5	*	Screw — M10x35



Cover, intermediate output (rear side of PTO)

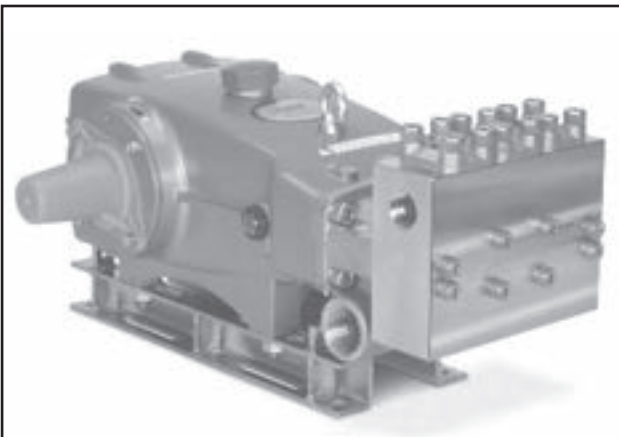
*Call factory.

10 gpm Pump



48047L

20 gpm Pump



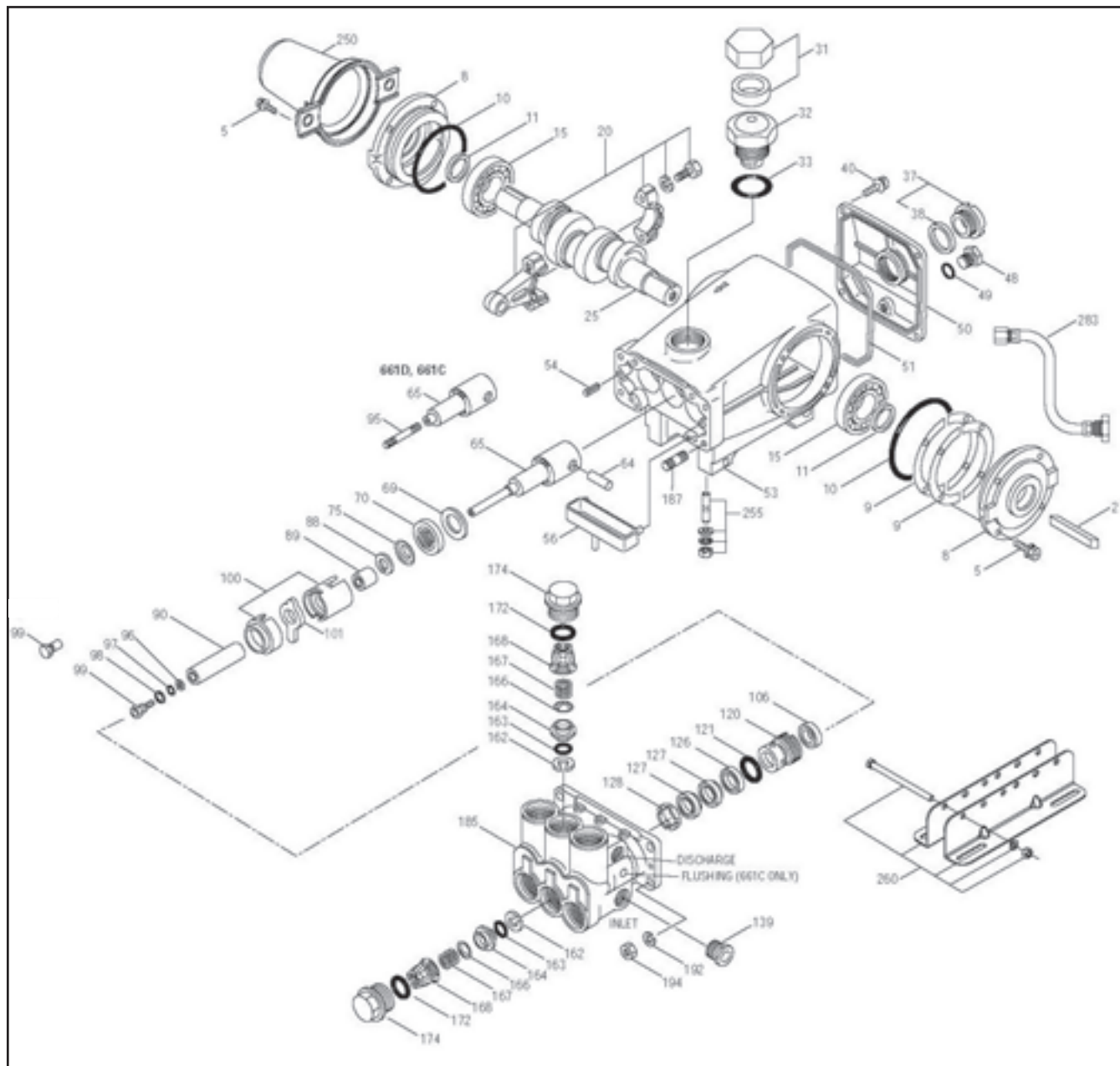
48047N 20 gpm Pump

Features

- Triplex plunger design provides smoother liquid flow.
- V-Packings are completely lubricated and cooled by the liquid being pumped.
- Special ported manifold permits an external flush liquid providing cooling for hi-temp liquids and lubrication for low lubricity liquids.
- Lubricated Lo-Pressure Seals provide double protection against external leakage.
- Oil bath crankcase assures optimum lubrication.
- Close tolerance concentricity of the ceramic plunger offers perfect alignment and maximizes seal life.

Pump – 10 gpm

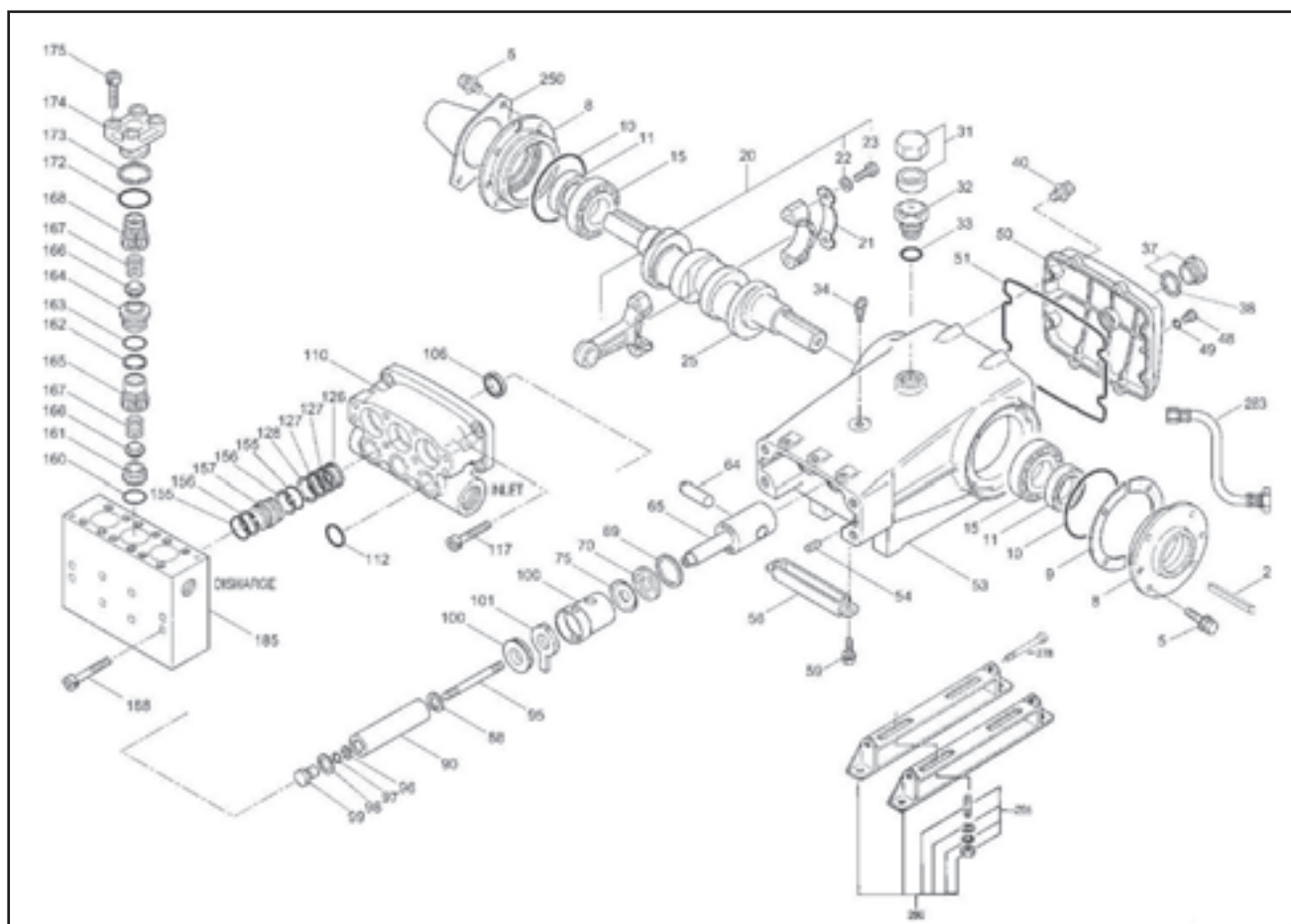
48047L



Item	Part No.	Description
	16367	Lock washer 1/4"
	40030	Ball Valve – 1/2" mini
	40589	Hydraulic Adapter – 8 NPT x 8 NPT Str
	41283	H.H.C.S. 3/8"-16NC x 1"
	42392	1/2"-13NC x 1-1/4"
	42438	Hydraulic Nipple
	43750	1/4"-20NC x 3/4"
	46804	Adapter, Hydraulic, 8 JIC x 8 NPT, Str
	48067	Adapter, reducer, 3/8 x 1/4, 10K psi
	49596	Hose Adapter, Bronze, 1" Hose x 3/4" NPT Str
	71270	Hydraulic Adapter – 8 JIC x 8 NPT 90
	505190	Pump Base, 10 gpm
	16367B	Lock washer 3/8"
	16367C	Lock washer 1/2"
	16480B	Hydraulic Adapter – 8 NPTF Tee
	16480C	Hydraulic Adapter – 12 NPTF Tee
	16645T	Pipe Plug 1/2 304SS
	45682F	Motor, Hydraulic, Vane 2.84 CID, Bkey, B
	46441D	Unloader Valve
	46441E	Relief Valve
	46846D	Pressure Gauge 5000 psi, Bottom port
	48047AA	Key (M8 x 7.5 x 25)
	48047LC	Water Pump Body
	48047LK	Spider Coupler Half, 7/8"
	48047LM	Spider Coupler Half, 30mm
	48047MC	Spider Element
	49797A	Plug, 1-1/2" dia, Plastic
	505187A	Bracket, Motor Mount, 10 gpm
	505234B	Shaft Guard, 10 gpm
	70331A	Adapter, 8 JIC x 12 NPT, 90
	70543N	Adapter, Hydraulic, 12 NPT x 8NPTF Reducer
	41600	Pump Oil
	48047LN	Pump Head Plug w/ 3/8 Gauge Port
	48047LP	Pump Head Plug
	48567	Seal Kit, Piston
	48556	Valve Kit, Piston
	40030	Ball Valve – 1/2" mini
	48047LZ	Direct Mount Stud Kit, M 10 x 1.5 x 50mm
	49792	Thermal Valve
	16480B	Adapter, Hydraulic, 8 NPTF x 8 NPTF x 8 NPTF
	46804	Adapter, Hydraulic, 8 JIC x 8 NPT, Str

Pump – 20 gpm

48047N



Item	Part No.	Description
	16367	Lock washer 1/4"
	40030	Ball Valve – 1/2" mini
	42686	5/8"-11NC x 1-1/2"
	43750	1/4"-20NC x 3/4"
	46773	Adapter, Hydraulic, 8 JIC x 8 NPT
	49596	Hose Adapter, Bronze, 1" Hose x 3/4" NPT Str
	49803	Spider Coupler, 48/60, Red
	49804	Coupler Half, 48/60, 1-3/8 bore
	49805	Coupler Half, 48/60, 1-1/4 bore
	505233	Pump Base, 20 gpm
	16355E	5/8"-11NC x 1-1/4"
	16367D	Lock washer 5/8"
	16475D	1" Service Tee
	16480J	Adapter, Hydraulic, 12 NPTF Tee, Brass
	20344R	Reducer Bushing, SS, 1-1/4 x 1/2
	40246A	Adapter, Hydraulic, 16 NPT x 16 NPT, Str SS
	40589D	Adapter, Hydraulic, 16 NPT x 12 NPT, Str
	40589J	Adapter, Hydraulic, 16 NPT x 12 NPT, Str Brass
	45072B	Adapter, Hydraulic, 4 NPT x 4 NPTF, SS
	46441G	Unloader Valve
	46441H	Relief Valve
	46846D	Pressure Gauge 5000 psi, Bottom port
	48047NA	Motor, Water Pump
	48047ND	Pump, 20 gpm @ 2500 psi
	48299A	1" Hose Barb
	48749FG	Key (M10 x 8 x 70)
	49797A	Plug, 1-1/2" dia, Plastic
	505234A	Shaft Guard, 20 gpm
	505238A	Bracket, Motor Mount, 20 gpm
	70338J	Adapter, 8 JIC x 16 NPT, Str
	70338R	Adapter, 12 JIC x 16 NPT, Str SS
	70542D	Reducer, 24 NPT x 20 NPT
	70542E	Reducer, 24 NPT x 16 NPTF
	70543P	Adapter, Hydraulic, 12 NPT x 8NPTF Reducer, Brass
	48749A	Seal Kit, Piston
	48749B	Valve Kit, Piston
	41600	Pump Oil
	48047NF	Direct Mount Stud Kit, M14 x 2 x 50mm
	49792	Thermal Valve
	16480C	Adapter, Hydraulic, 12 NPTF x 12 NPTF x 12 NPTF
	70338	Adapter, Hydraulic, 12 JIC x 12 NPT, Str

Notes:

No matter what the material, if it can flow, the SLUDGE GUZZLER™ hydraulic submersible pump will pump it.

Continuously. Reliably. Completely. Dollar for dollar, SLUDGE GUZZLER™ provides unsurpassed pumping power and versatility to meet all your pumping needs. It is ideal for pumping large volumes of water, mud, sewage, silt and other solid laden liquids that cannot be pumped with conventional suction lift pumps. Built for continuous use under the most demanding industrial and municipal conditions, SLUDGE GUZZLER™ will pump in any position, even upside down.

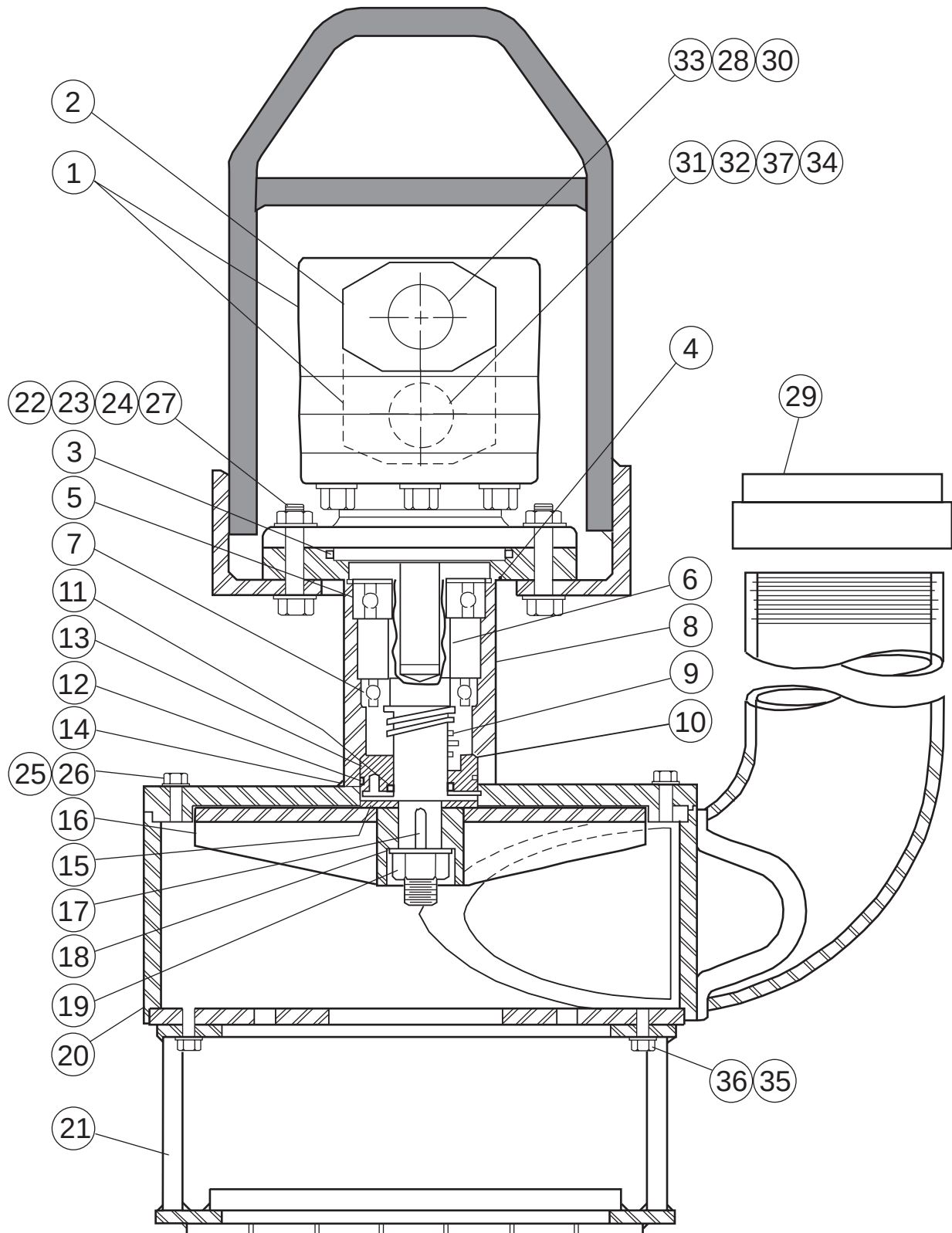
The SLUDGE GUZZLER™ is designed for ease of use and dependable operation. It is lightweight, sets up quickly, and can run dry without damage. The hydraulic system permits variable flow control, minimizing wear on the power unit and conserving fuel. Readily available replacement parts keep downtime and costs to a minimum. When combined with an industrial vacuum loader or liquid vacuum tanker, the SLUDGE GUZZLER™ is a cost effective addition that increases your service capabilities.

Pump Head

Part No.	Description
1400050	4" (101 mm) — standard
1410047	6" (152 mm) — standard
1400051	4" (101 mm) — super
1410048	6" (152 mm) — super



4" (101 mm) Sludge Pump

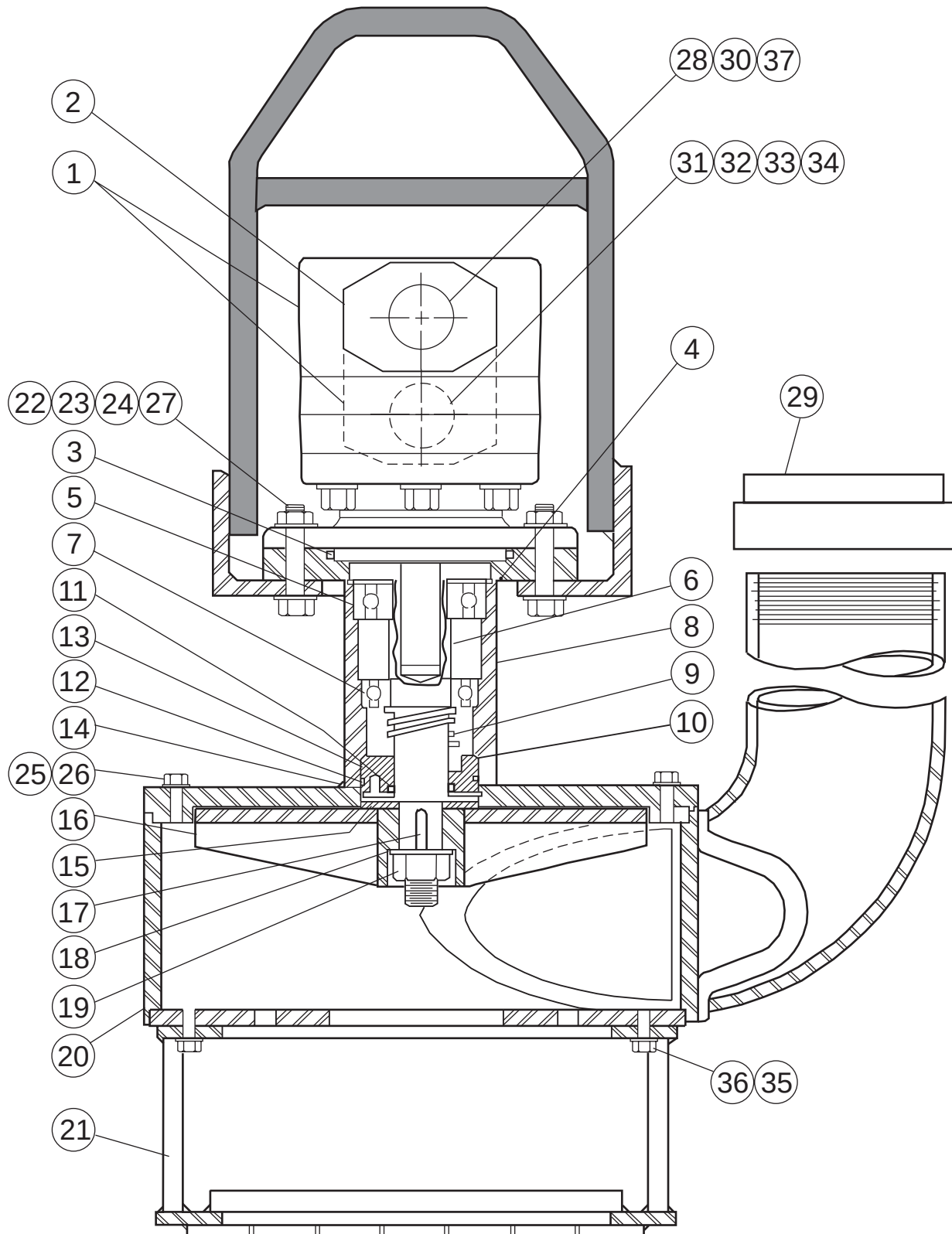


Note: Part numbers and parts are subject to change.

4" (101 mm) Sludge Pump

Item	Part No.	Description
1	1400002W	Motor — hydraulic (super)
	1400001W	Motor — hydraulic (standard)
2	1200295	Flange — 4-bolt pump
3	1400006	O-ring — upper
4	1400033	Internal snap ring
5	1400024	Ball bearing — upper
6	1400023W	Shaft
7	1400025	Ball bearing — lower
8	1400049	Bearing carrier assembly
9	1400026	Seal assembly — rotary
10	1400014W	Seal holder
11	1400037	Seal — lip (super)
	1400037	Seal — lip (standard)
12	1400036	O-ring — S/H
13	20937	O-ring — B/C (super)
	20937	O-ring — B/C (standard)
14	1400016	Internal snap ring — lower
15	1400015W	Flinger
16	1400048	Impeller assembly — fabricated (super)
	1400047	Impeller assembly — fabricated (standard)
17	1400022	Key
18	1180030	Washer
19	1170036	Nut — self-locking
20	1400046	Volute housing
21	1400045	Screen assembly
22	1160043	Bolt — hex head (2)
23	1170007	Nut — hex (2)
24	1180010	Lockwasher (2)
25	1160175	Bolt — hex, stainless steel (12)
26	1180004	Lockwasher (15)
27	1180009	Washer
28	1200163	Elbow — male (P)
29	46245D	Camlock — 4" (101 mm) (P)
30	1200253	Quick coupling — female (P)
31	1200134	Reducing bushing (R)
32	16479D	Street elbow (R)
33	70542J	Reducer bushing (R)
34	1200254	Quick coupling — female (R)
35	1160174	Bolt — hex head
36	1180006	Washer
37	402446	Hex nipple

6" (152 mm) Sludge Pump



Note: Part numbers and parts are subject to change.

6" (152 mm) Sludge Pump

Item	Part No.	Description
1	1410002	Motor — hydraulic (super)
	1410001	Motor — hydraulic (standard)
2	1410004	Port block (2)
3	1410007	O-ring — upper
4	1410029	Internal snap ring
5	1410023	Ball bearing — upper
6	1410022W	Shaft
7	1410024	Ball bearing — lower
8	1410045	Bearing carrier assembly
9	1410025	Seal assembly — rotary
10	1410013	Seal holder
11	1410033	Seal — lip
12	410031	O-ring — S/H
13	1410030	O-ring — B/C
14	1410015	Internal snap ring — lower
15	1410014	Flinger
16	1410044	Impeller assembly — fabricated (super)
	1410043	Impeller assembly (standard)
17	10075M	Key
18	1410016	Washer
19	1170037	Nut — self-locking
20	1410049	Volute housing
21	1410041	Screen assembly
22	1160054	Bolt — hex head (2)
23	1170009	Nut — hex (2)
24	1180012	Lockwasher (2)
25	1160176	Bolt — hex, stainless steel (12)
26	1180006	Lockwasher (15)
27	1180011	Washer
28	1200478	Elbow — male (P)
29	1280107	Camlock — 4" (101 mm) (P)
30	1200371	Quick coupling — male (P)
31	20295	Reducing bushing (R)
32	10453E	Street elbow (R)
33	16864D	Hex nipple (R)
34	1200373	Quick coupling — male (R)
35	1160177	Bolt — hex head
36	1180010	Washer
37	70542E	Reducing bushing (R)

Notes:

Dana Driveline Assembly

Part No.	Description
1350021	Driveline assembly
44665	Flanged yoke (Fig. 1)
43961	U-joint (Fig. 2)
1210003	Slip yoke
1210002	Yoke shaft — male
1210008	3/8" x 1-3/16" (9.5 mm x 30.2 mm) bolt — 16 required per flange
1210009	3/8" (9.5 mm) nut — 16 required per flange

OMSI-Hibon Driveline Assembly

Part No.	Description
86592G	Upper driveline assembly
44665	Flanged yoke (Fig. 1)
43961	U-joint (Fig. 2)
48356	Yoke shaft for a 1610 (Fig. 3)
1211031	Bore flange
43962A	Slip yoke assembly for a 1610 (Fig. 4)



TECH TIP: Drivelines should be greased every 25 hours or weekly at a minimum. Poor maintenance and failure to grease drivelines will cause premature driveline failure and could cause blower failure.

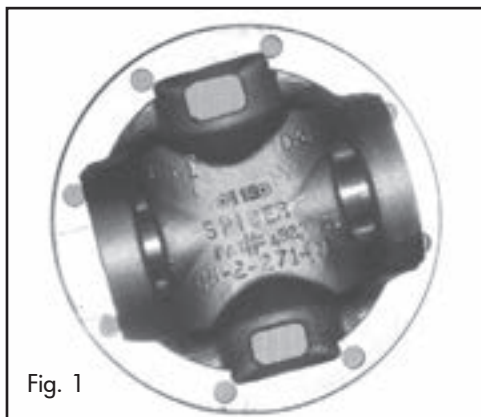


Fig. 1

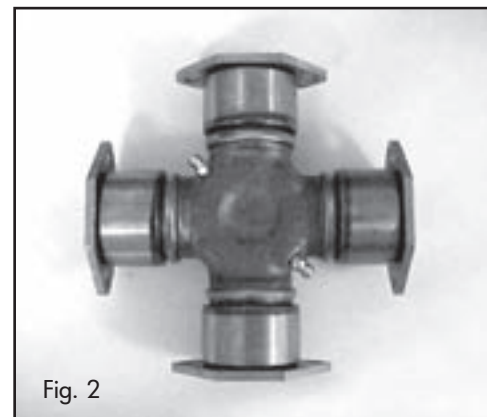


Fig. 2

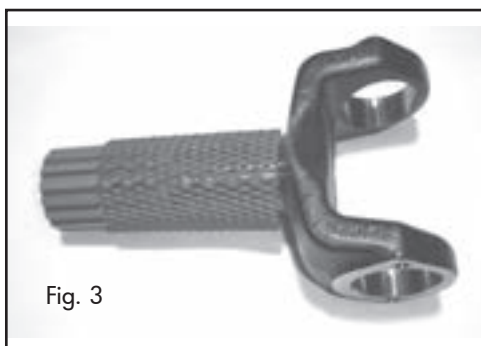


Fig. 3

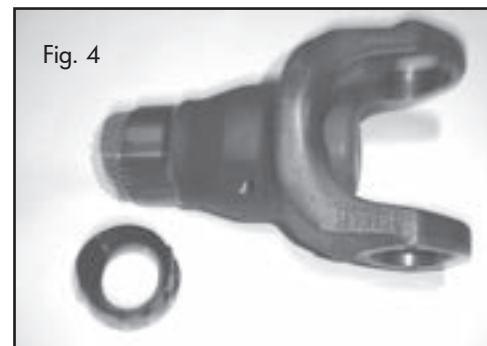


Fig. 4

Cotta and OMSI Transfer Case

Part No.	Description
48017F	Flange yoke (Fig. 1)
48017B	U-joint (Fig. 2)

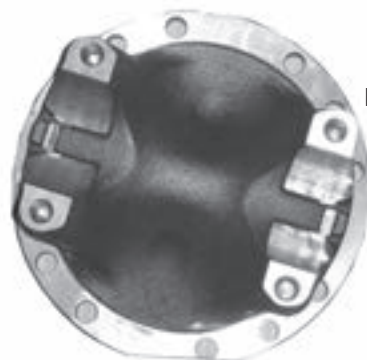


Fig. 1

Upper Driveline

Part No.	Description
86592	Used on a 1021 DVJ
86592N	Used on NX ACE (Fig. 3)



Fig. 2

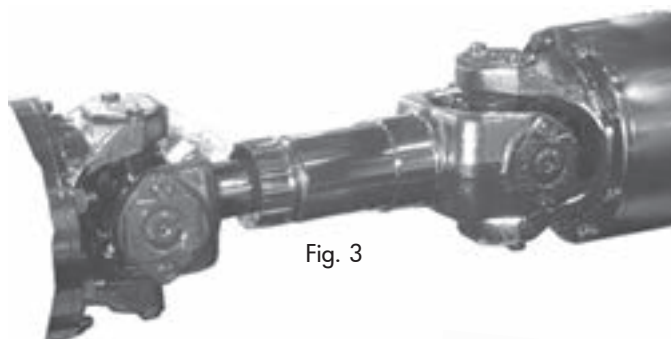


Fig. 3

Driveshaft Assembly

Part No.	Description
48016T	For NX unit



Bore Flange

Part No.	Description
1210014	6" (152 mm) used on select blowers — call with Guzzler serial number to confirm
1125257	5.5" (140 mm) keystock used on 6" (152 mm) bore flange 1210014
1210015	8" (203 mm) used on select blowers — call with Guzzler serial number to confirm
1125258	7.5" (191 mm) keyway used on 8" (230 mm) bore flange 1210015



Decal Kits

Part No.	Description
47047HZ	Float level indicator — full to empty
1800131A	Guzzler NX
1800134A	Guzzler ACE
1800135A	Guzzler Classic
1800141A	HXX PD
1800160A	HXX fan
1800177A	HXX Prodigy PD



NX Logo

Part No.	Description
1320241	NX body logo (Fig. 1)



Fig. 1

ACE Logos

Part No.	Description
1320742	ACE body logo — black (Fig. 2)
1320743	ACE body logo — white



Fig. 2

Classic Logos

All logos are 11" x 47" (279 mm x 1194 mm).

Part No.	Description
1320973	Classic body logo — black (Fig. 3)
1320973A	Classic body logo — brown
1320973B	Classic body logo — chrome
1320973C	Classic body logo — silver
1320974	Classic body logo — white (Fig. 4)



Fig. 3



Fig. 4

HXX Logos

Part No.	Description
47047JF	HXX — black (Fig. 1)
47047JT	HXX — white (Fig. 2)
47047JTA	HXX — silver
47047KP	HXX — no dig decal
49206	HXX Prodigy for light colored units — 30" x 52" (762 mm x 1321 mm) (Fig. 3)
49206A	HXX Prodigy for light colored units — 16" x 28" (406 mm x 711 mm)
49206B	HXX Prodigy for dark colored units — 30" x 52" (762 mm x 1321 mm)
49206C	HXX Prodigy for dark colored units — 16" x 28" (406 mm x 711 mm)



Fig. 1



Fig. 2



Fig. 3

Alkota Water Heaters**400,000 BTU Water Heater**

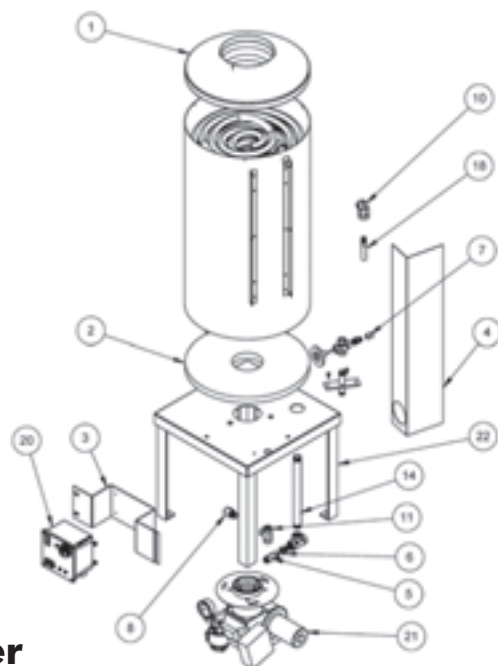
Part No.	Description
49785	12v 400,000 BTU Water Heater
49785A	High-altitude Burner Nozzle - Required for 4,000-8000 ft elevations
49785B	High-altitude Burner Nozzle - Required 8000+ ft elevations

800,000 BTU Water Heater

Part No.	Description
49786	110v 800,000 BTU Heater (Requires inverter)
49978	12v 400,000 BTU Water Heater (Does not require inverter)
49786A	High-altitude Burner Nozzle - Required for 4,000-8000 ft elevations
49786B	High-altitude Burner Nozzle - Required 8000+ ft elevations

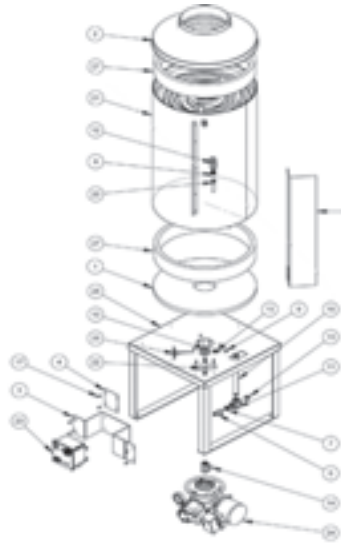
Water Heater Replacement Parts

Part No.	Description
49830	Thermostat, Water Heater
49830A	Temperature Gauge, Water Heater
49830B	Burner Gasket, Water Heater
49830C	Burner Motor, 400,000 BTU Heater
49830D	Burner Motor, 800,000 BTU Heater
49830E	Igniter, 400,000 BTU Heater
49830F	Igniter, 800,000 BTU Heater
49830G	Fuel Filter, Water Heater
49830H	Deck Insulation, 400,000 BTU Heater
49830J	Deck Insulation, 800,000 BTU Heater
49830K	Domed Hood, 400,000 BTU Heater
49830L	Domed Hood, 800,000 BTU Heater
49830M	Fuel Pump, Water Heater
49830N	Power Switch, 400,000 BTU Heater
49830P	Power Switch, 800,000 BTU Heater
49830R	Relief Valve, Water Heater
49830S	Pressure Switch, Water Heater



Alkota Water Heater

Item	Part No.	Description
1	49830K	ASSEMBLY, COIL TOP - 18" W/INSUL
2	49830H	INSULATION, CERAMIC FIBER - 1 X 18" DIA W 4 1/4
3		WELDMENT, PANEL-CONTROL, 18" VACTOR
4		SHIELD, GAUGE-VACTOR 18"
5		VALVE, RELIEF - 3/8NPT INLET 1/4" BARB 90 DEG, 6 GPM, 1000-6000 PSI (SS BARB)
6		BUSHING, 3/4MNPT - 3/8FNPT PIPE GS HEX HEAD
7		CAP, PIPE - 3/8FNPT SCH80 ZP HEX HEAD
8		ADAPTER,1/2MPT X 1/2FPT,PLATED STEEL
9		CROSS, 1/2FNPT HI PRESS PIPE
10		ELBOW, 3/4FMPT - 90 DEG, FORGED, HI PRESSURE
11		TEE, 1/2FNPT PIPE HI PRESSURE 5000 PSI
12		TEE, 3/4FNPT HI PRESSURE PIPE
13		NIPPLE,HEX-REDUCING-3/8"X 1/2"
14		NIPPLE,3/4MNPT-12 1/2" PS PIPE
15		SCREW, CAP - 1/4 - 20UNC X 3/4 IND HEX SERR WASHER HD Z.P
16		NUT, LOCK - 1/4-20 UNC, SERRATED FLANGE, ZP, HEX
17		NUT,LOCK-3/8-16UNC HEX SERRATED FLANGE ZINC
18		HOSE, 1/2" X 28" COUPLED
19	49830T	WELDMENT,COIL-FINAL,SCH80 18", 3/4" PIPE,HRS
20		ASSEMBLY, PANEL-CONTROL (VACTOR) 18"
21	49830C	ASSEMBLY, BURNER-W/O SOL, 12 VOLT
22		WELDMENT, BASE- WH - OIL FIRED 18"
23		WELDMENT, BRACKET - NIPPLE (24" VACTOR)
24		THERMOMETER, 3" DIAL DAMPENED, 4" STEM, 50-500DF, 1/2" NPT, 3000 PSI



Alkota Water Heater

Item	Part No.	Description
1		INSULATION, 1" X 5"ID X 23 1/2"OD, CERAMIC FIBER
2	49830L	ASSEMBLY, COIL TOP 23-5/8" ID, W/11OD STACK
3		WELDMENT, PANEL-CONTROL
4		WELDMENT, PANEL-MOUNT
5		SHIELD, GAUGE-VACTOR 24"
6	49830R	VALVE, RELIEF - 3/8NPT INLET 1/4" BARB 90 DEG, 6 GPM, 1000-6000 PSI (SS BARB)
7		BUSHING, 3/4MNPT - 3/8FNPT PIPE GS HEX HEAD
8		BUSHING, 3/4MNPT - 1/2FNPT PIPE HEX PS
9		CAP, PIPE - 3/8FNPT SCH80 ZP HEX HEAD
10		CROSS, 1/2FNPT HI PRESS PIPE
11		CROSS, 3/4FNPT STEEL
12		ELBOW, 3/4FMPT - 90 DEG, FORGED, HI PRESSURE
13		PLUG, PIPE - 3/4MNPT GS SQUARE HEAD CORED
14		TEE, 3/4FNPT HI PRESSURE PIPE
15		NIPPLE,HEX-REDUCING-3/8"X 1/2"
16		NIPPLE,3/4MNPT-12 1/2" PS PIPE
17		SCREW, CAP - 1/4 - 20UNC X 3/4 IND HEX SERR WASHER HD Z.P
18		NUT, LOCK - 1/4-20 UNC, SERRATED FLANGE, ZP, HEX
19		NUT,LOCK-3/8-16UNC HEX SERRATED FLANGE ZINC
20		HOSE, 1/2" X 28" COUPLED
21	49830U	WELDMENT, COIL - FINAL, SCH80
22		WELDMENT, BRACKET - NIPPLE (24" VACTOR)
23		ASSEMBLY, PANEL-CONTROL (VACTOR)
24	49830D	ASSEMBLY, BURNER-W/SOL, 115 VOLT
25		WELDMENT, BASE - 24" OIL FIRED (VACTOR)
26	49830A	THERMOMETER, 3" DIAL DAMPENED, 4" STEM, 50-500DF, 1/2" NPT, 3000 PSI
27		INSULATION, CERAMIC FIBER- 1 x 4 x 73

Hotsy Water Heater (Fig. 1)

Part No.	Description
47390E	Water heater — 400,000 BTU
47390J	Water Heater — 940,000 BTU
47390K	Water Heater — 400,000 BTU

Domed Hotsy Hood

Part No.	Description
47390ES	For use with 47390E

Heating Coil

Part No.	Description
47390LD	For use with 47390L

Fuel Nozzle

Part No.	Description
47390EB	2.5 GPH - 90°
47390FT	4.0 GPH - 80° B
47390KH	2.0 GPH - 90° B

Fuel Solenoid

Part No.	Description
47390EA	Fuel solenoid
47390FG	Fuel solenoid (Fig. 2)

Burner Gasket

Part No.	Description
47390BE	Burner gasket
47390BF	Burner-to-flame gasket

Burner Motor

Part No.	Description
47390ED	Burner motor (Fig. 3)
47390FF	Burner motor (Fig. 4)

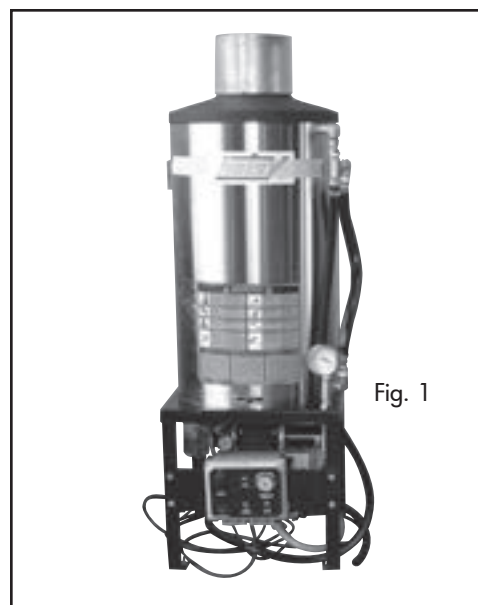


Fig. 1

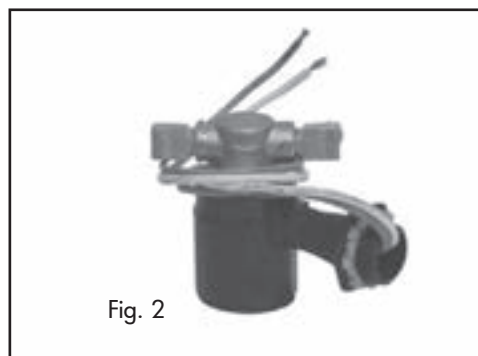


Fig. 2

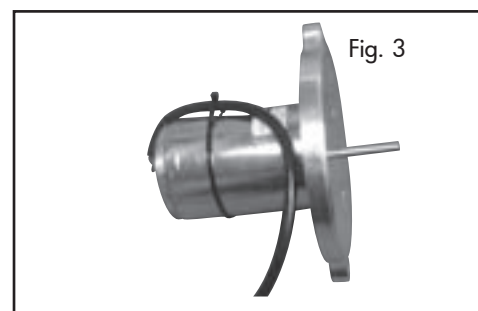


Fig. 3

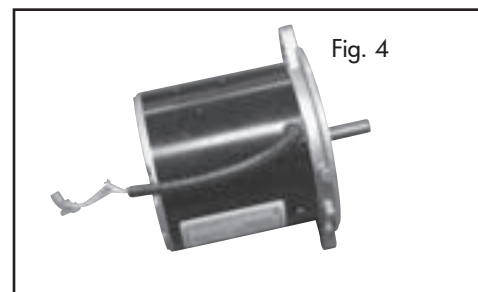
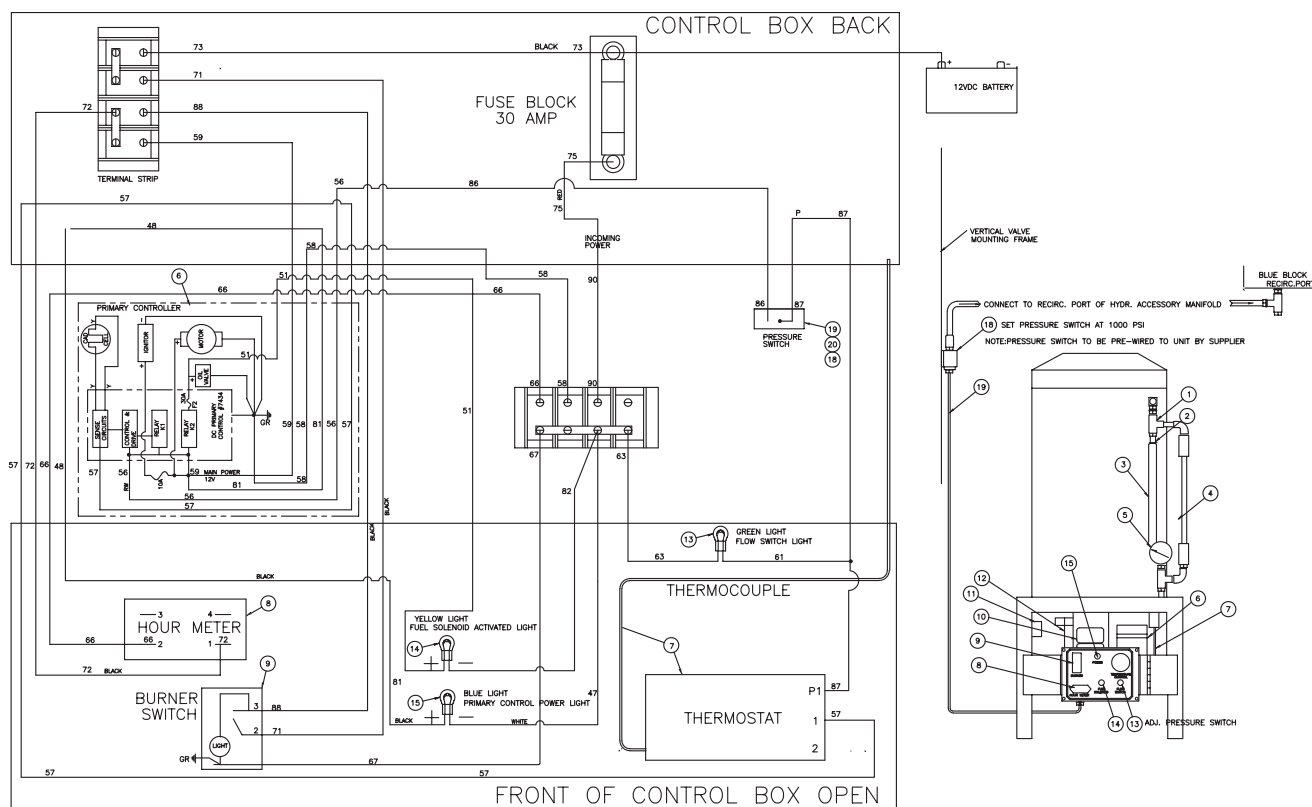


Fig. 4



Hotzy 400,000 BTU Water Heater

Item	Part No.	Description
1	*	Outlet manifold assembly
2	47390H	High-pressure relief valve
3	*	Relief hose
4	47390EK	High-pressure outlet hose assembly
5	47390AJ	Temperature gauge
6	47390EL	Primary burner control
7	47390JC	Thermostat/thermo-couple assembly
8	47390AK	Hour meter
9	*	Burner switch – 12V DC
10	47390EC	Ignitor
11	47390EF	Fuel filter
12	47390ET	Fuel pump

Item	Part No.	Description
13	47390AR	Green light – 12V DC
14	47390AS	Yellow light – 12V DC
15	47390AT	Blue light – 12V DC
16	47390EA	Fuel solenoid
17	47390EB	Fuel nozzle
18	45277	Pressure switch
19	*	Cable – 2-wire

*Call factory.

Photo Cell

Part No.	Description
47390BD	Photo cell (Fig. 1)
47390FB	Photo cell flame sensor

Fuel Filter Assembly

Part No.	Description
47390EF	For use with 47390E

Fuel Pump

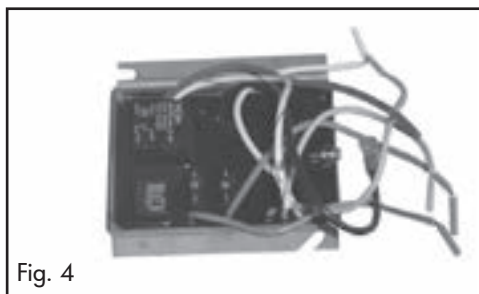
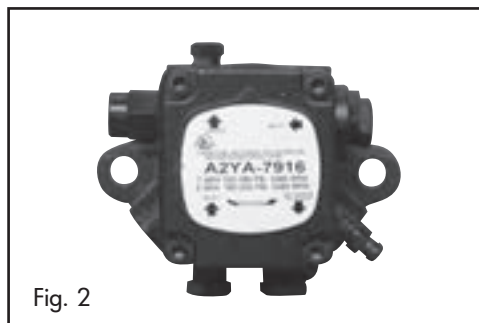
Part No.	Description
47390ET	Fuel pump, burner 400K BTU (Fig. 2)
47390FA	Fuel pump, burner 900K BTU

Thermostat Control

Part No.	Description
47390JA	Manual thermostat control
47390JC	Manual thermostat control
47390JB	Temperature gauge
47390H	High-temperature relief valve (Fig. 3)

Primary Control

Part No.	Description
47390EL	Primary control (Fig. 4)
47390FE	Primary control



Power Switch

Part No.	Description
47390EU	Power switch — 12V
47390FD	Power switch — 110V

Flow Switch

Part No.	Description
47390EG	Flow switch for 47390E (Fig. 1)
47390EH	Flow switch light for 47390E
47390FK	Flow switch
47390FL	Flow switch light

Ignitor Transformer

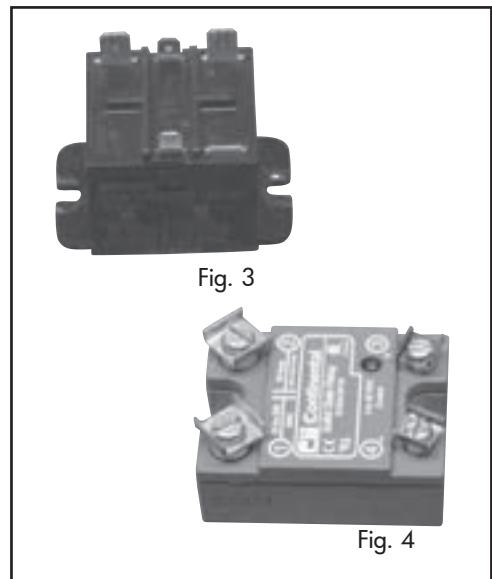
Part No.	Description
47390EC	For use with 47390E (Fig. 2)
47390FH	For use with 47390F, 47390J

Electrode

Part No.	Description
47390EE	For use with 47390E
47390FJ	For use with 47390F, 47390J

Relay

Part No.	Description
47390FM	Omron relay — use with 47390F (Fig. 3)
47390FN	Continental relay — use with 47390F (Fig. 4)



Hose

Part No.	Description
47390EJ	Water inlet hose (Fig. 1)
47390EK	Water outlet hose (Fig. 2)
47390FQ	Flow bypass hose (Fig. 3)

Hotsy Miscellaneous Replacement Parts

Part No.	Description
47390EM	Watlow — temperature controller
47390EN	Power supply — 12V DC to 24V DC
47390EP	Thermo-couple type J — use with 47390E
47390EQ	PVC type J wire - use with 47390E

Final Filter

Air filter.

Part No.	Description
1140363A	19.6" OD x 14" ID x 28.5" tall (497.8 mm x 355.6 mm x 723.9 mm), round style for HXX with blower (Fig. 4)
1140363B	19.6" OD x 14" ID x 21.5" tall (497.8 mm x 355.6 mm x 546.1 mm), round style for HXX Prodigy
1140467D	20" x 30" x 3.5" (508 mm x 762 mm x 88.9 mm), old square style for HXX with blower (Fig.5)

TECH TIP: Gaskets should be used with all filters to prevent air leaks that can cause material to fall out in the hose rather than being carried to the debris body.

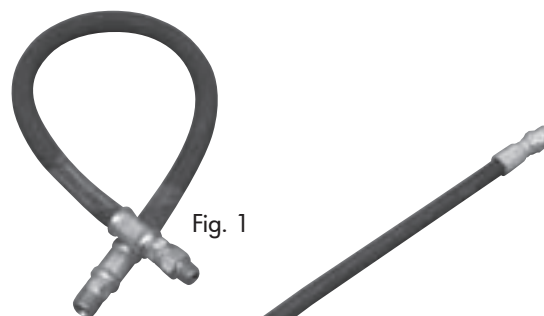


Fig. 1

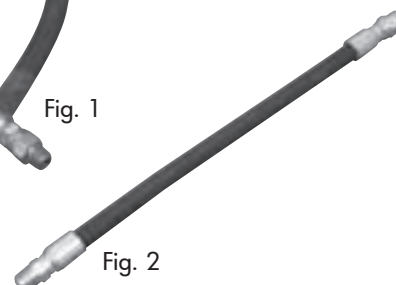


Fig. 2



Fig. 3



Fig. 4



Fig. 5

Seal Kit

Part No.	Description
48749A	For Cat 3560
48567	For Cat 660
46441EA	Buna-N seal kit for relief valve 46441E
46441EB	Viton seal kit for relief valve 46441E



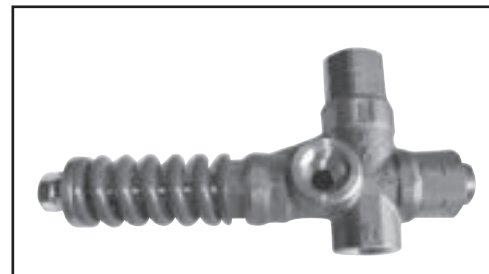
Valve Kit

Part No.	Description
48749B	For Cat 3560
48556	For Cat 660 — 2 required



Valves

Part No.	Description
46441D	Unloader valve for Cat 660 — pump 48947L, 10 gpm (38 lpm)
46441E	Relief valve for Cat 660
46441G	Unloader valve for Cat 3560 — pump 48947N, 20 gpm (76 lpm)
46441H	Relief valve for Cat 3560



Spider

Part No.	Description
48565	For motor coupling on Cat 660
48047MC	For motor coupling on Cat 3560



Ignition Switch

Part No.	Description
47773	Ignition Switch

Digging Lance Kit

Lightweight design. Includes 2 nozzle guard assemblies.

Part No.	Description
89444	Fiberglass digging lance kit

Digging Lance Pipe Assembly (Fig. 1)

Part No.	Description
500619A	1/2" x 83" (12.7 mm x 2108 mm)
500619B	1/2" x 108" (12.7 mm x 2743 mm)
500619C	1/2" x 48" (12.7 mm x 1219 mm)
500619E	1/2" x 83" (12.7 mm x 2108 mm) with nozzle



Fig. 1

Quick-Disconnect

Used to connect digging lances for HXX units.

Part No.	Description
20188M	1/2" (12.7 mm) male (HXX) (Fig. 2)
20188L	1/2" (12.7 mm) female (HXX) (Fig. 3)



Fig. 2



Fig. 3

Safety Shutoff Valve Assembly

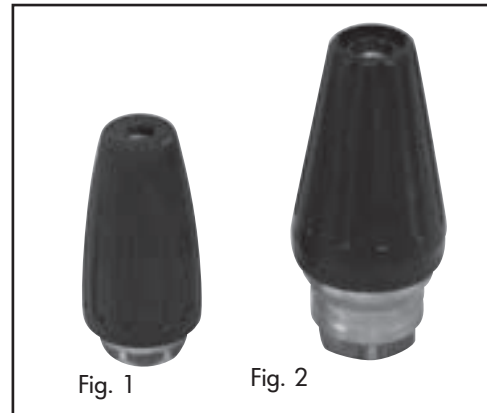
Part No.	Description
500619F	Trigger gun assembly used with digging lances features 1/2" (12.7 mm) quick-disconnect fittings



Rotator Nozzle

Used on HXX Units.

Part No.	Description
48685	3-4 gpm (11.4-15.1 lpm) (Fig. 1)
48687	6-7 gpm (22.7-26.5 lpm) (Fig. 2)



Nozzle with Guard Assembly

All parts rated at 2500 psi (172 bar).

Part No.	Description
89714	3.2 gpm (12.1 lpm), 2 nozzles in straight pattern (Fig. 3)
89714A	4.8 gpm (1807 lpm), 3 nozzles in triangle pattern
89714B	9.6 gpm (36.3 lpm), 3 nozzles in triangle pattern
89714C	16.5 gpm (62.5 lpm), 3 nozzles in triangle pattern
89714D	6.4 gpm (24.2 lpm), 2 nozzles in straight pattern



Nozzle Tube Guard

Part No.	Description
89713	White polyethylene nozzle guard



CAT Pump

Part No.	Description
48047	CAT Pump 660, 10gpm (pump only)
45682F	Motor, HYD, Vane, 2.84 cid, bkey B
48047LK	Spider Coupler, half, 7/8"
48047MC	Spider Element (48047L)
64987BS	Schem, Water, Hydro-Ex, Handgun
47366CA	Hose Assy' Hyd 3/8X600
46438L	Hose Reel - 3000 psi

Notes:

Your partners in working smart and safe!

FS Solutions is your one-stop resource for today's best and most popular safety equipment for use in industrial vacuum operations. From safety manuals to personal protective clothing and gear, we've got you covered!

Safety is no accident! Identify hazards ... Warn against hazards ...Protect against hazards.

Rain Suits

Part No.	Description
1310472A	Small - XL — 20 per case
1310472B	XXL — 20 per case
1310472C	3XL — 20 per case
1310472D	4XL — 20 per case



Tyvek® Suits

Part No.	Description
1311231A	Small - XL — 25 per case
1311231B	XXL — 25 per case
1311231C	3XL — 25 per case
1311231D	4XL — 25 per case



Steel Toe Rubber Boots

Part No.	Description
1310340A	Sold per pair



Gloves

Part No.	Description
1310988A	Jersey gloves — 12 pair (Fig. 1)
1310988B	Split cowhide gloves — 12 pair (Fig. 3)
1310988C	PVC gloves — 12 pair (Fig. 2)



Hard Hat

Part No.	Description
1310729A	MSA Hard hat — sold individually

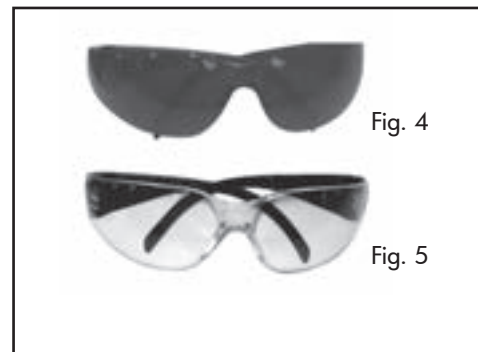
Face Shield

Part No.	Description
1310087A	Shield — sold individually
1310086A	Bracket — sold individually



Safety Glasses

Part No.	Description
1310088A	Clear — 12 per case (Fig. 5)
1310088B	Tinted — 12 per case (Fig. 4)



Ear Plugs

Part No.	Description
1310349A	100 pair — corded



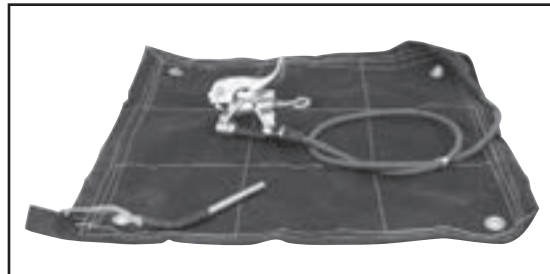
Duct Tape

Part No.	Description
1310261A	2" x 60 yards (76 mm x 55 m) — 24 per case



Non-Skid Equi Mat

Part No.	Description
1281038	58" x 58" (1473 mm x 1473 mm) — designed to protect workers who could come in contact with harmful electrical current. Use of mat is required by OSHA 1910.269.



Vacuum Truck Operator's Tool Box

Part No.	Description
46635B	Includes: Plastic tool box, ball peen hammer, leather work gloves, safety manual, rubber mallet, hack saw, crescent wrench, wrecking bar, flashlight, tape measure, pliers, wire cutters, terminal crimpers, vise grips, utility knife, duct tape, electrical tape, wire terminals, Phillips screwdriver, standard screwdriver



Notes:

Recommended Oils, Lubricants and Fluids — All Guzzler and HXX Models

Hydraulic System

The hydraulic system leaves the factory filled with Castrol Hydraulic Plus Blue 46 (*) oil. This fluid is recommended for all normal operating conditions to 95°F ambient. For continuous operation above 95°F (35°C) to 105°F (41°C) ambient, Castrol Hydraulic Plus Blue 68 is recommended. For continuous operation above 105°F (41°C) ambient, consult the factory. For operation from -20°F (-29°C) to 70°F (21°C) ambient, use the Castrol Hydraulic Plus Blue 32 oil. For continuous operation below -20°F (-29°C) ambient, consult the factory.

Other hydraulic oils, if used, should be a quality product carefully selected with assistance from a credible supplier. The oil should include thermal stability, sheer stability, low-temperature fluidity, anti-wear, anti-corrosion, anti-foaming and seal conditioning characteristics. Consult the factory before using any other oil than the recommended products.

Filters should be changed whenever indicated by the filter gage. Contaminants allowed to remain in the circuit not removed by the filters will cause excessive wear and malfunctions.

Note: Hydraulic oil should be drained and replaced every 500 hours. The oil tank will normally feel hot to the touch. The standard oil tank holds about 50 gallons of hydraulic oil.

Anti-Wear Hydraulic Oils				
	GRADE	32	*	46
1	Gravity, API D 1298	32.2	29.3	28.5
2	Flash, COC, °F D 92.	410	440	460
3	Viscosity cSt at 40° C D 445	32	46	68
4	Viscosity cSt at 100° C	5.4	6.8	8.7
5	Viscosity SUS at 100° F	165	237	352
6	Viscosity SUS at 210° F	44.4	49	55.5
7	Viscosity Index D 2270	102	102	99
8	Emulsion at 130° F D-1401	Pass	Pass	Pass
9	Turbine Oil Stability Test D 943 Hours	5000+	5000+	5000+
10	Rust Test, SSW D 665B	Pass	Pass	Pass

COTTA 1.4 & 1.6 Step-Up Transmissions		
	GRADE	NOTES
	PETROLEUM GEAR OILS	
1	Castrol Isolube 68	Standard Fill
2	Castrol Paradene R&O 68	
3	Citgo Pacemaker T 68	
4	Chevron Machine Oil Grade 68	
5	Conoco Hydroclear Turbine Oil Plus 68	
6	Mobil DTE Heavy Medium	
7	Phillips Magnus Oil 68	
8	Shell Turbo T 68	

Recommended Oils, Lubricants and Fluids — All Guzzler and HXX Models

Roots-Holmes Blower Lubricant		
	Fluid	NOTES
1	Castrol Isolube 150	Standard Fill
2	Castrol Paradene R&O 150	
3	Chevron HIPERSyn Oil 150	
4	Citgo - Pacemaker 150	
5	Conoco Hydroclear Turbine Oil Plus 68	
6	Mobil - DTE Extra Heavy	
7	Phillips Magnus Oil 68	

Hibon Blower Lubricant		
	Fluid	NOTES
1	Castrol Isolube 150 (NX)	Standard Fill
2	Castrol Isolube 220 (Guzzler & Ace)	Standard Fill
3	Castrol SHL Lubricant 220	
4	Conoco SynCon Synthetic R&O 220	
5	Mobil SHL 630	

Transfer Cases		
	COTTA	NOTES
1	Castrol GL-40 75W90 Gear Lubricant	Standard Fill
2	API Gear Lubricant 75W-90 Synthetic	
3	API 80W-90	
	DANA	
1	Same as Roots Blower Oil Spec list	
	OMSI	
1	Dexron III/Mercon ATF	Standard Fill
2	API 80W-90 (creep drive rail units)	

Recommended Oils, Lubricants and Fluids — All Guzzler and HXX Models

Fluid Couplings		
	John Deere	<i>NOTES</i>
1	Houghto-Safe 1130 (P/N 47578D)	<i>Standard Fill</i>
2	Fyrquel GR 46	
	Sunvac III	
1	Castrol Blue Hydraulic Plus 46	

HXX Spindle Box		
		<i>NOTES</i>
	Shell, Omala Oil RL68 P/N 48611 - 55 Gal	<i>Change from Pinnacle 32 took place in 06/05. Normal fill is approximately 8 quarts</i>

Water Pumps		
	Hypro Water Pumps	<i>NOTES</i>
1	Hypro Oil - Non-Detergent SAE 30 Weight	
2	Castrol Paradene R&O 150 or 220	
	Cat Water Pumps	
1	Special Hydraulic ISO 100 R Series for Crankcase	<i>Cat Pump Filled</i>
2	Castrol AP Gear Lube 80W90 for Gearbox	<i>Standard Fill</i>

Anti Freeze		
	John Deere	<i>NOTES</i>
1	Castrol 50/50 Premix with SCA (Castrol P/N 80089) P/N 47965 - 55 Gal P/N 47965A - 5 Gal	<i>Castrol Mix is purplish in color.</i>

Note:

ISO 68 -30°F (-34°C) to 70°F (21°C)

ISO 150 -20°F (-29°C) to 150°F (66°C)

ISO 220 32°F (0°C) to 120°F (49°C)

R&O = Rust & Oxidation

Recommended Oils, Lubricants and Fluids — All Guzzler and HXX Models

Product	Part #	Package Size
Castrol Blue Hydraulic 46	48865	260 Gal Tote
Castrol Blue Hydraulic 46	48865A	55 Gal Drum
Castrol Blue Hydraulic 46	48865B	5 Gal Pail
Castrol Blue Hydraulic 46	48865C	6/1 Gal Case
Castrol Blue Hydraulic 46	48865D	1 Gal Jug
Castrol Dual Range HV46	48866	260 Gal Tote
Castrol Dual Range HV46	48866A	55 Gal Drum
Castrol Dual Range HV46	48866B	5 Gal Pail
Castrol Dual Range HV46	48866C	6/1 Gal Case
Castrol Dual Range HV46	48866D	1 Gal Jug
Castrol ISOLUBE 68	48867	55 Gal Drum
Castrol ISOLUBE 68	48867A	5 Gal Pail
Castrol ISOLUBE 150	48868	55 Gal Drum
Castrol ISOLUBE 150	48868A	5 Gal Pail
Castrol ISOLUBE 220	48869	55 Gal Drum
Castrol ISOLUBE 220	48869A	5 Gal Pail
Castrol SYNGEAR 75W90	48870	55 Gal Drum
Castrol SYNGEAR 75W90	48870A	35# Pail
Castrol ESGL 75W90	48871	12/1 Qt Bottles
Castrol Paradene R&O 68	48872	55 Gal Drum
Castrol Paradene R&O 68	48872A	5 Gal Pail
Castrol Paradene R&O 150	48873	55 Gal Drum
Castrol Paradene R&O 150	48873A	5 Gal Pail
Castrol Paradene R&O 220	48874	55 Gal Drum
Castrol Paradene R&O 220	48874A	5 Gal Pail
Castrol Pyroplex Protection ES Synthetic EP Grease NLGI #2 (purple)	49328	40/14oz Tubes
	49328A	35# Pail
	49328B	120# Keg

All products are FOB Parent Petroleum warehouses. Method of shipment is determined by FS/Vactor/Elgin.

Recommended Oils, Lubricants and Fluids — All Guzzler and HXX Models

1. Scope

This specification covers high quality, anti-wear hydraulic fluid.

2. Application

This fluid is intended for mobile, hydraulic construction equipment using either gear, van or piston type pumps. System operating pressures may be as high as 5000 PSI (345 bar) and operating temperatures may be as high as 210°F (100°C). Minimum start-up temperature is 0°F (-18°C).

3. Physical Properties and Test Requirements

Property & Test Method			Requirement	
A.	ISO Grade		46	
B.	Viscosity SUS @ 100°F	ASTM D 445	200-300	SUS
	Viscosity SUS @ 210°F	ASTM D 445	45-60	SUS
	Viscosity CST @ 40°C	ASTM D 88	45.0 +/-10%	CST
	Viscosity CST @ 100°C	ASTM D 88	6.7 +/-10%	CST
C.	Viscosity Index	ASTM D 2270	100 Min.	
D.	API Gravity Specific Gravity	ASTM D 287	27 Min. 0.85-0.88	
E.	Flash Point	ASTM D 92	400°F (204°C) Min.	
F.	Pour Point	ASTM D 97	-25°F (-32°C) Max.	
G.	Oxidation Life (Hrs. to Tan 2.0)	ASTM D 943	4000 Hrs. Min.	
H.	Rust Test	ASTM D 665A (distilled water)	Pass	
		ASTM D 665B (synthetic sea water)	Pass	
I.	Foam Test	ASTM D 892 Sequence I Sequence II Sequence III	<u>FOAM TENDENCY</u> 25 ml Max. 50 ml Max. 25 ml Max.	<u>FOAM STABILITY</u> NIL 10 ml Max. NIL
J.	Demulsibility	ASTM D 1401 30 minutes Max.	Pass	
K.	Pump Wear	Vickers M29525 or Denison HF-0	Pass	
L.	Anti-wear	Extreme pressure	Must contain an anti-wear compound	
M.	Filterability		Fluid shall show no additive loss when filtered through a 5.0 micron filter	
N.	Cleanliness	ISO 4572 SAE J1165	Min. ISO 17/14 Fluid shall be free of visible contaminants or sludge	
O.	Water Content		Less than 0.1% by volume	
P.	Compatibility		Must be compatible with materials commonly used in mobile hydraulic systems for hoses, seals, etc. such as Nitrile (Buna-N), Fluorocarbon (Viton®) and Polyurethane	
Q.	Color		Light amber or medium blue; red not acceptable	

Notes:

10075M	Q-5	41771	M-6	44596	H-8	45538	O-9
10453E	Q-5	42392	P-3	44596A	H-5, H-8	45554	H-5
16420L	M-6	42439	I-3	44596C	H-8	45554A	H-5
16479D	Q-3	42431	I-3	44597	H-5	45579	O-9
16584	E-2	42431B	I-3	44622	H-5	45606	E-2
16864D	Q-5	42438	P-3	44665	R-1	45682F	P-3, T-11
20188L	T-10	42511	B-6	44676	K-3	45699	J-1
20188M	T-10	42577	C-1	44730B	K-3	45727	E-1
20295	Q-5	42578	C-1	45072B	P-5	45728	E-1
20344R	P-5	42579	C-1	45113	M-6	45729	E-1
20358	H-5	42580	C-1	45277	T-5	45730	E-1
20358A	H-5	42580A	C-1	45302B	I-5	45731	E-2
20358D	H-6	42581	C-1	45302D	I-5	45739	E-2
20358H	H-6	42581A	C-1	45302EA	I-5	45741	H-7
20359	H-5	42582	C-1	45302H	I-5	45742	H-7
20542	E-2	42582A	C-1	45302IA	I-5	45743	H-7
20543	E-2	42583	C-2	45446	O-1	45744	H-7
20856	E-1	42583A	C-2	45446ZB	O-9	45783A	G-5
20861A	K-2, K-3	42584	C-2	45446ZD	O-8	46125A	H-7
20937	Q-3	42584A	C-2	45447	O-8	46159	H-8
20971	J-2	42585	C-2	45448	O-8	46159B	H-8
20980	K-2	42585A	C-2	45449	O-8	46223	B-5
20980B	K-2, K-3	42586	E-1	45450A	O-8	46227	C-8
24901	M-16	42587	E-1	45451	O-8	46227A	C-8
25262	D-2	42588	E-1	45452	O-8	46228	C-7
25268Q	D-2	42589	G-4	45453	O-8	46229	C-6
25637D	D-2	42590	G-4	45454	O-8	46245A	C-7
25637F	D-2	42590A	G-4	45455	O-8	46245D	C-7, Q-3
25637G	D-2	42591	G-4	45457	O-8	46247A	C-6
25637L	D-2	42591A	G-4	45458	O-8	46247B	C-6
27771	M-2	42592	E-1	45459	O-8	46247D	C-6
27771B	M-2	42612B	H-5	45460	O-8	46248	C-8
27771E	M-2	42633	K-5	45461	O-9	46248D	C-8
29314	C-5	42645E	H-5, J-2	45462	O-9	46344L	H-5, I-2
31069	M-6	42645G	H-7	45463	O-9	46347	K-3
32087	E-2	42654	H-7	45464	O-9	46438L	T-11
34141	C-4	42655	H-7	45466	O-9	46441D	P-3, T-9
34460	H-6	42686	P-5	45467	O-9	46441E	P-3, T-9
34763A	D-1	42690	O-2	45468	O-9	46441EA	T-9
34763B	D-1	42772	O-5	45469	O-9	46441EB	T-9
34763C	D-1	42775	O-7	45470	O-9	46441G	P-5, T-9
34766D	D-2	43072	J-3	45471	O-9	46441H	P-5, T-9
35096	C-4	43206	I-3	45472	O-9	46449	A-6
35594	G-3	43369	C-1	45473	O-9	46471	E-2
36460	H-6	43370	C-2	45474	O-9	46471A	E-2
37131	M-6	43370A	C-2	45475	O-9	46492	H-4, H-7
37132B	M-6	43371	E-1	45476	O-9	46549D	C-7
39225F	O-2	43372	G-4	45477	O-9	46564	A-6
39893	G-6	43388	E-2	45478	O-9	46564D	A-6
40019A	K-1	43389	E-2	45479	O-9	46564G	A6
40019B	K-1	43415	E-2	45480	O-9	46564N	A-6
40019C	K-1	43444	N-1	45481	O-9	46568	J-3
40019E	K-1	43563	E-1	45482	O-9	46634	E-1
40019H	K-1	43594	C-1	45497	O-9	46635B	U-3
40019L	K-1	43595	C-2	45498	O-9	46644	I-4
40030	P-3, P-5	43750	P-3, P-5	45499	O-9	46661	M-15
40241	H-8	43958A	A-6	45500	O-9	46684	B-5
40241A	H-5	43961	R-1	45501	O-9	46773	P-5
40246A	P-5	43962A	R-1	45502	O-9	46804	P-3
40550	M-6	44129	H-8	45503	O-9	46811T	H-5, J-4
40589	P-3, P-5	44301	N-1	45504	O-9	46811U	H-5, J-3
40589D	P-5	44388	M-7	45505	O-9	46811V	H-5, H-8
40732A	A-5	44478	M-7	45506	O-9	46838JA	H-5
40755	H-1, H-5	44512	B-5	45507	O-9	46846	H-5, J-3
40755A	H-1	44551	N-1	45508	O-9	46846D	J-2, P-3, P-5
40755B	H-1	44551A	N-1	45509	O-9	46848A	M-8
41283	P-3	44551AR	N-1	45517	O-8	46858	C-7
41600	P-3, P-5	44592	H-5	45537	O-9	46864	I-3

46938J	H-2	47390FH	T-7	48051CB	O-8, O-9	48874A	V-4
46938JA	H-2	47390FJ	T-7	48051CJ	O-3	49206	S-6
46938JB	H-2	47390FK	T-7	48051CP	O-10	49206A	S-7
46938JC	H-2	47390FL	T-7	48051CS	O-4	49206B	S-8
46938JF	H-2	47390FM	T-7	48051CT	O-4	49206C	S-9
46938L	H-2	47390FN	T-7	48051CU	O-5, O-6	49318B	O-9
46938VD	H-2	47390FQ	T-8	48051CW	O-5-9	49328	V-4
46938VC	H-2	47390FT	T-4	48051CX	O-6-9	49328A	V-4
46938VG	H-2	47390H	T-5, T-6	48051CY	O-6-9	49328B	V-4
46938VH	H-2	47390J	T-4	48051CZ	O-6-9	49469	F-1
46938VJ	H-2	47390JA	T-6	48051DC	O-5	49469A	F-1
46938VK	H-2	47390JB	T-6	48052AAA	O-8, O-9	49470A	F-1
46938VS	H-2	47390JC	T-5, T-6	48052AAD	O-4, O-8-9	49470B	F-1
46938VT	H-2	47390K	T-4	48052AB	O-3	49472A	F-2
46938X	H-2	47390KH	T-4	48052AG	O-5	49572	F-2
46938XA	H-2	47390LD	T-4	48052AH	O-5	49572A	F-2
46938XAA	H-2	47394	A-6	48052AM	O-5	49572B	F-2
46938XAB	H-2	47658A	H-5	48052AO	O-8, O-9	49573E	F-2
46938XAC	H-2	47772	H-9	48052AU	O-5	49574	F-2
46938XAE	H-2	47773	T-9	48052AV	O-5	49575	F-2
46938XB	H-2	47903A	H-9	48052AW	O-4	49577	F-1
46938XC	H-2	47903AA	H-9	48052AX	O-4	49577A	F-1
46938XD	H-2	47986	I-4	48052AY	O-4	49585	F-1
46938XE	H-2	48016T	R-2	48052BA	O-4	49585A	F-1
46938XF	H-2	48017B	R-2	48052BC	O-5	49586	F-1
46938XCA	H-2	48017F	R-2	48052BD	O-5	49596	P-3, P-5
46938XG	H-2	48047	T-11	48052BE	O-5	49630	H-8
46938XH	H-2	48047AA	P-3	48067	P-3	49785	T-1
46938XJ	H-2	48047L	P-2	48209A	I-3	49785A	T-1
47047HZ	S-1	48047LC	P-3, T-11	48299A	P-5	49785B	T-1
47047JF	S-2	48047LK	P-3, T-11	48347	K-3	49786	T-1
47047JT	S-3	48047LM	P-3	48257	K-3	49786A	T-1
47047JTA	S-4	48047LN	P-3	48356	R-1	49786B	T-1
47047KP	S-5	48047LZ	P-3	48440E	I-4	49792	P-3, P-5
47063D	K-1	48047MC	P-3, T-9	48457	C-6	49797A	P-3, P-5
47390AJ	T-5	48047N	P-4	48556	P-3, T-9	49803	P-5
47390AK	T-5	48047NA	P-5	48565	T-9	49804	P-5
47390AR	T-5	48047ND	P-5	48567	P-3, T-9	49830	T-1
47390AS	T-5	48047NF	P-5	48603	M-15	49830A	T-1, T-2
47390AT	T-5	48047P	P-3	48685	T-11	49830B	T-1
47390BD	T-6	48051A	O-1	48687	T-11	49830C	T-1, T-2
47390BE	T-4	48051AA	O-1	48749A	P-5, T-9	49830D	T-1, T-2
47390BF	T-4	48051AAA	O-1	48749B	P-5, T-9	49830E	T-1
47390E	T-4	48051AAT	O-3	48749FG	P-5	49830F	T-1
47390EA	T-4, T-5	48051AB	O-1	48865	V-4	49830G	T-1
47390EB	T-4, T-5	48051AC	O-1	48865A	V-4	49830H	T-1, T-2
47390EC	T-5, T-7	48051AD	O-1	48865B	V-4	49830J	T-1
47390ED	T-4	48051AH	O-3	48865C	V-4	49830K	T-1, T-2
47390EE	T-7	48051AJ	O-3	48865D	V-4	49830L	T-1, T-2
47390EF	T-5, T-6	48051AK	O-5	48866	V-4	49830M	T-1
47390EG	T-7	48051AM	O-5	48866A	V-4	49830N	T-1
47390EH	T-7	48051AQ	O-3	48866B	V-4	49830P	T-1
47390EJ	T-8	48051AR	O-3	48866C	V-4	49830R	T-1, T-2
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