



# TACK TANK 300 & 600

Parts Manual - CR300017  
Revision 0

Fill in appropriate fields that apply to this machine

Machine S/N: \_\_\_\_\_

\_\_\_\_\_

Pump S/N: \_\_\_\_\_

Engine S/N: \_\_\_\_\_



**TACK TANK 300 GAL TRAILER  
PN 93166C**

**TACK TANK 600 GAL TRAILER  
PN 93168C**

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## Chapter 1 Introduction

### 1.0 About This Manual

This manual is supplied with each new CrafcO Tack Tank. The manual assists your machine operators in the proper use of the equipment and provides information about the machine's mechanical functions.

Your CrafcO Tack Tank is specially made to give excellent service and save maintenance expense. However, as with all specially engineered equipment, you get best results at minimum cost if you:

- Operate your machine as instructed in this manual.
- Maintain your machine regularly as stated in this manual.

### 1.1 How to use this manual:

This manual is formatted to start each new chapter on the right page. There may be a blank page on the left page if the previous chapter ends on the right page.

If you are viewing this in a digital format (PDF) the following features are available:

1. The Table of Contents, List of Tables, and List of Figures are all hyperlinks, when left mouse clicked on section, table, or figure you will be sent to that page.
2. The blue highlighted text throughout the manual is a hyperlink, when left mouse clicked you will be sent to that page, table, or figure.
3. The panel to the left in the PDF is a bookmarks panel, if you left mouse click on any section/heading in the bookmarks panel you will be sent to that page.

## Chapter 2 Safety

### 2.0 Safety Precautions

For more in-depth safety information, please see Safety Manual (PN 26221) which comes with the machine. Or contact your nearest authorized Crafcro Distributor at [crafcro.com/Distributors](http://crafcro.com/Distributors).

### 2.1 General Safety

- Crafcro, Inc. assumes no liability for an accident or injury incurred through improper use of the machine.
- Read this manual thoroughly before operating the machine.
- Obey all CAUTION and WARNING signs posted on the machine.
- Make sure an operator fully knows how to operate the machine before using the machine.

### 2.2 Personal Safety

- Always ensure protective clothing, gloves, hard-soled shoes, and safety glasses or a face shield are worn at all times by operators of the machine.
- Bodily contact with hot material or heat transfer oil can cause severe burns.
- If the mixer is not stopped before opening the loading door, hot material can get on an operator's body.
- Keep hands, feet, and clothing away from all moving parts.
- DO NOT point the nozzle at another person.
- DO NOT operate near an open flame.

### 2.3 Equipment or Operational Safety

- Do not operate the machine in buildings or work areas that do not have sufficient airflow.
- Make sure mixer stops before adding material to the tank. Lift the lid, place the material on the lid and close the lid. The mixer should restart automatically.
- Always keep a correctly maintained fire extinguisher near the machine and ensure all operators understand how to use it.
- Replace any hoses which show signs of wear, fraying or splitting.
- Make sure all fittings and joints are tight and do not leak each time the machine is used.
- Do not leave the machine unattended while it is running.
- Tighten all bolts and screws every 100 hours of machine operation.
- DO NOT use any type of flame to unclog the hose or spray nozzles if they become clogged.

## Chapter 2 Safety

### 2.4 California Proposition 65

The state of California currently maintains a list of chemicals that can cause cancer, birth defects or other reproductive harm. Your Crafcro, Inc. equipment comes with the following warnings:

#### 2.4.1 All Crafcro, Inc. Equipment

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) 26471N

#### 2.4.2 All Crafcro, Inc. Equipment using a diesel or gasoline engine

**WARNING:** Breathing engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information go to [www.P65warnings.ca.gov/diesel](http://www.P65warnings.ca.gov/diesel). 26157

### 2.5 Safety Symbols and Notices

Important safety symbols and notices are marked on the machine and in this manual. Failure to comply could result in equipment damage, operational malfunction, serious injury, or death. Please read and comply with all symbols and notices. The table below includes the most commonly used symbols and notices.

**Table 2-1 Safety Notices**

Symbol	Remarks
<b>DANGER</b>	Indicates a hazardous condition that will result in serious injury or death if not performed appropriately.
<b>WARNING</b>	Indicates a hazardous condition that could result in serious injury or death if not performed appropriately.
<b>CAUTION</b>	Indicates a hazardous condition that could result in serious injury if not performed appropriately.
<b>NOTICE</b>	Indicates a situation that could result in damage to the machine or other property.

**Chapter 2 Safety**

**Table 2-2-2 Safety Symbols**

Symbol	Item	Remark
	Severe Burn Hazard	Hot material can cause severe burns.
	Protective Shoes	Wear hard-soled work shoes.
	Protective Gloves	Wear heat-resistant gloves.
	Protective Face or Eye Wear	Wear face shield or safety glasses.
	Body Crush Hazard	Do not stand between trailer and hitch when hooking melter to truck.
	Crush Hazard	Keep feet and legs clear.
	Pinch Hazard	Keep hands and feet clear.
	Exhaust Hazard	Avoid breathing engine exhaust.
	Read Manual	Read and understand operator and safety manuals before operating machine.

## Chapter 2 Safety

### 2.6 Operation Hazards

The following hazards are possible during the operation of the machine. All operators, maintenance and service personal, or anyone working with or near the machine must be familiar with all hazards.

Do not operate this machine until you read and understand the instructions in the operation section of this manual. Do not operate, work on or around machine while under the influence of alcohol, drugs or if feeling ill.

#### ⚠ WARNING

**Explosion, fire, or property damage hazard.** Do not use starting fluid with this engine. Use of starting fluid can cause an explosion, fire, personal injury or damage to the engine and other property.

#### ⚠ WARNING

**Entanglement hazard.** Do not wear loose fitting clothing, which can become entangled in moving or rotating parts. Keep all personnel clear of moving parts when engine is running or about to be started. Long hair must be tied back or netted. Keep clear of moving components. Never operate machine with open or missing guards or shields.

#### ⚠ WARNING

**Fire, burns or property damage hazard.** Exhaust and exhaust components can remain hot after engine has been stopped. To avoid risk of fire, burns and property damage or personal injury, allow the exhaust system to cool before service or repairs. Be sure there are no combustible materials located where they are likely to contact hot surfaces, flames or other heat sources.

Some bitumen fumes are flammable and can explode. Operator must keep machine clear of sparks, open flames and incandescent material.

#### ⚠ WARNING

**Pressurized fluids and hazardous chemicals.** Hydraulic oil and grease injected into your skin can cause serious injury or death. Keep your hands and body away from any pressurized leak. Tighten connections before applying pressure. Never use your hand to check for leaks; use a piece of wood or cardboard. If fluid is injected into the skin, it must be surgically removed within a few hours or gangrene may result. Get immediate medical attention.

Lubricants and coolants can be hazardous. Before operating, check the safety data sheet to understand each product, safe handling procedures, and first aid measures relating to the product. Clean up spilled fluids immediately.

## Chapter 2 Safety

### ⚠ WARNING

**Explosion, fire, or personal injury.** Operator shall never operate the burner assemblies while truck is in motion or being loaded. Operator shall be present during entire heating cycle.

Operator shall be sure burner tubes are covered by a minimum of 8” of material before burner operation. Uncovered tubes can cause explosion in tank. Operator is responsible for safe heating temperatures of the material and not exceeding the “flash point.”

Operator shall never load machine when water or condensation is present in the tank. Hot material can cause the water to steam and burst the tank.

Operator shall always wear protective gear for face, hands, feet, eyes, and body while working with hot bituminous products. Operator shall always have proper knowledge and carry in truck proper safety data sheets (SDS) for the material in use. If hot asphalt touches the skin, flush area completely according to SDS. Cool water may not be the best solution for non-emulsion materials. Get medical attention.

### ⚠ WARNING

Improper operation, lubrication or maintenance of this machine can be dangerous and could result in injury or death. Do not perform any lubrication and maintenance on this machine until you read and understand the instructions in the maintenance section of this manual.

Before performing inspections, service or maintenance:

- Park machine on firm level surface.
- Lower screed to ground or engage screed support locks.
- Fully open or close hoppers.
- Turn engine off and remove ignition key.
- Attach a Do Not Operate tag or similar warning tag to the ignition switch.
- Follow lockout/tag out procedure as defined by your company.

After performing inspections, service or maintenance, verify all guards have been installed and all safety devices are functional.

If you must troubleshoot machine with engine running, have someone in constant visual contact who can shut off the engine or engage an Emergency Stop. If you must service machine with an attachment raised, block up that attachment in a safe position.

Always wear face or eye protection, safety shoes, and other protective items as required by your company.

## Chapter 2 Safety

### **⚠ WARNING**

Engine fuel can cause an explosion or fire. Do not service fuel system with engine running or near open fire. Do not weld or smoke near fuel system. Do not spill fuel or hydraulic oil on hot machine components. Clean up spilled fuel or oils immediately.

Keep sparks and flames away from batteries to prevent explosion of hydrogen gas in and near a battery. Other precautions include:

- When disconnecting battery cables, disconnect negative (-) cable first.
- When connecting battery cables, connect negative (-) cable last.
- Do not short circuit battery posts with metal items.

### **⚠ CAUTION**

Prolonged exposure to loud noise can cause impairment or loss of hearing. Operators, workers and bystanders must use ear protection while machine is in operation.

### **NOTICE**

Operator shall never mix different materials in the tank. Not all asphalt products mix well, and problems may occur. Always contact material handler before changing tank products to ensure compatibility or arrange for offload of material first.

### **NOTICE**

Dispose of waste properly. Improper disposal of waste can harm the environment. Do not drain or pour any fluids or lubricants on the ground. Check with local environmental agencies or recycling centers for proper disposal information. Use a leak proof container when draining fluids. Do not use food or beverage containers. Contact your local environmental or recycling center for the proper way to recycle or dispose of waste.

## Chapter 3 Warranty Information

### 3.0 Limited Warranty

Crafco, Inc. (Manufacturer), or one of its affiliated distributors, will replace for the original purchaser free of charge any parts found upon examination by the Manufacturer, to be defective in material or workmanship. This warranty is for a period **two years** from the invoice date, but excludes engine or components, tires, and battery as these items are subject to warranties issued by their respective manufacturers.

Crafco, Inc. shall not be liable for parts that have been damaged by accident, alteration, abuse, improper lubrication/maintenance, normal wear, or other cause beyond our control.

The warranty provided herein extends only to the repair and/or replacement of those components on the equipment covered above and does not cover labor costs. The warranty does not extend to incidental or consequential damages incurred as a result of any defect covered by this warranty.

All transportation and labor costs incurred by the purchaser in submitting or repairing covered components must be borne by the purchaser. Crafco, Inc. specifically disavows any other representation, warranty, or liability related to the condition or use of the product.

#### CAUTION

Use of replacement parts other than genuine OEM parts may impair the safety or reliability of your equipment and nullifies any warranty.

### 3.1 Warranty Claim Instructions

Crafco, Inc. warrants parts and machinery purchased through Crafco or one of its affiliated distributors for two years from the invoice date. Wear items are not covered under the Crafco, Inc. limited warranty. A wear item is defined as but not limited to: material pumps, sealing tips, tires, etc.

If parts fail to function within two years of invoice date, a return authorization number (RA) must be obtained. If the part was purchased through Crafco, Inc., please contact Crafco returns department at [Returns@Crafco.com](mailto>Returns@Crafco.com) for an RA number or if purchased through a Crafco distributor please contact your distributor.

Note: if the part has a serial number associated with it, for example; a machine or electric hose or wand, this must be furnished when requesting the RA number. The customer will be emailed or faxed an RA form with all instructions to return the item to Crafco, Inc. See example. If the part is found to be within the two year warranty period and has not been abused or modified, a credit will be issued to the customer's account or credit card. The customer may request the part be replaced instead of a credit, if desired.

Note: All engine warranties are covered through the engine manufacturer. If you need information for a distributor in your area, please contact us and we will direct you to the closest engine distributor.

All parts returned are tested and evaluated. If the part has been modified in any way without prior consent from a Crafco, Inc. representative, warranty is void.

Please follow the instructions stated below when calling in a Warranty Claim. Failure to follow these procedures may be cause to void the warranty.

Call your local Crafco Distributor. If you do not know who your local distributor is, call a Crafco Customer Service Representative, (Toll Free 1-602-276-0406) for name, location and telephone number.

## Chapter 3 Warranty Information

On contacting the distributor, be prepared to identify the serial number, model number, engine number, engine manufacturer, and the date of purchase if available.

Should the cause of the malfunction be a defective part, the Distributor will advise you of the procedure to follow for a replacement.

The warranty is valid only for parts, which have been supplied or recommended by CrafcO, Inc.

If you have any additional questions regarding warranty repairs and parts, please do not hesitate to call 1-480-655-8333.

### **For Warranty:**

CrafcO, Inc.  
25527 South Arizona Avenue, Chandler, AZ 85248  
Phone: (480) 655-8333  
Fax: (480) 655-1712

### **For all other inquiries:**

CrafcO, Inc.  
14415 South 50th St.  
Suite 100  
Phoenix, AZ 85044  
Phone: (602) 276-0406  
Fax: (480) 961-0513  
[CustomerService@crafcO.com](mailto:CustomerService@crafcO.com)

## Chapter 4 Machine Specifications

### 4.0 Machine Specifications

**Table 4-1 Machine Specifications**

Specification	PN 93166C 300 TRAILER	PN 93168C 600 TRAILER
Tank Capacity	300 Gal / 1,135 L	600 Gal / 2,270 L
Tank Opening Size	20 in. (51 cm)	
Drive Mechanism	Hydraulic with infinite adjust	
Hydraulic Tank Capacity	5 gal. (19 L)	
Diesel Burner	Beckett ADC 250,000 BTU/hr	
Diesel Tank Capacity	5 gal. (19 L)	
Material Pump	Roper 35 gpm (130 Lpm), Reversible	
Gas Engine	Kohler 9.5HP CH395 Command Pro	
Gas Tank Capacity	5 gal. (19 L)	
Dry Weight (Approx.)	2,250 lb. (1,020 kg)	2,850 lb. (1,290 kg)
Axle Capacity	Single 6000 lb. (2,721 kg)	Dual 6000 lb. (2,721 kg)
Tires	ST225/75R165	

## Chapter 5 Operating Instructions

### 5.0 Operating Instructions

The Crafcro Tack Tank 300 and 600 are designed to give excellent service and save maintenance expense. However, as with all specifically engineered equipment, you can get the best results at minimum cost if you operate your machine as instructed, and maintain it regularly as instructed in this manual.

**Note:** DO NOT attempt to operate the machine without using these and all other instructions.

### 5.1 Start Up Procedure

The Crafcro Tack Tank 300 and 600 are serviced and tested prior to shipment. However, shipping regulations do not allow shipment of a fully serviced unit. The following should be checked prior to operation:

Table 5-1 Start Up Procedure

Step	Action
	<p style="text-align: center;"><b>DANGER</b></p> <p>To avoid possible injury or death, ensure no condensation or other moisture is present in tank. <b>DO NOT</b> heat material or load tank with hot material <u>when condensation or water is present</u>. Hot material and water will have a violent reaction producing steam and pressure, resulting in damage and potential injury or death.</p>
1	Fill fuel tank. Do not fill tank while engine is running.
2	Check engine oil level daily. Add if required.
3	Ensure the valves for the hand sprayer and spray bar are closed, and that pump direction lever is in the Neutral position.
4	Start engine.

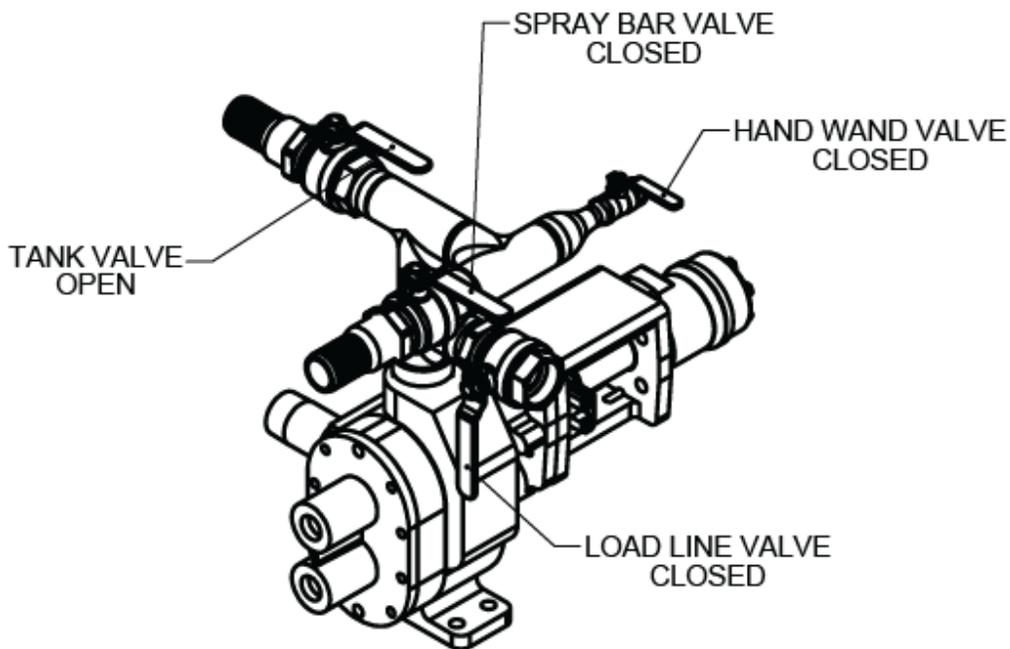
**Chapter 5 Operating Instructions**

**5.2 Heating Material**

**Table 5-2 Heating Material**

Step	Action
	<b>DANGER</b>
	Operator shall never operate the burner assemblies while truck is in motion or being loaded. Operator shall be present during entire heating cycle. Operator shall be sure burner tubes are covered by a minimum of 8" of material before burner operation. Uncovered tubes can cause explosion in tank. Operator is responsible for safe heating temperatures of the material and not exceeding the "flash point." Operator shall begin tank circulation of material as soon as possible for safe heating of product.
1	Ensure burner tubes are covered by at least 8" of material. Uncovered burner tubes can cause an explosion in the tank.
2	Flip the burner blower controls to the ON position.
3	Turn the Thermostat dial to the desired spray temperature.
4	Flip the burner fuel switches to the ON position and the burners will light.
5	After burners start to warm, the material must be circulated. At the back of the machine, ensure the spray bar valve and hand wand valve on the pump are closed. If a load line valve is installed, ensure it is closed. Open the tank valve. Refer to Figure 5-1 below.
6	When set temperature is reached, the burners will turn off, and the material is ready to spray.

**Figure 5-1 Recirculation Valve Diagram**



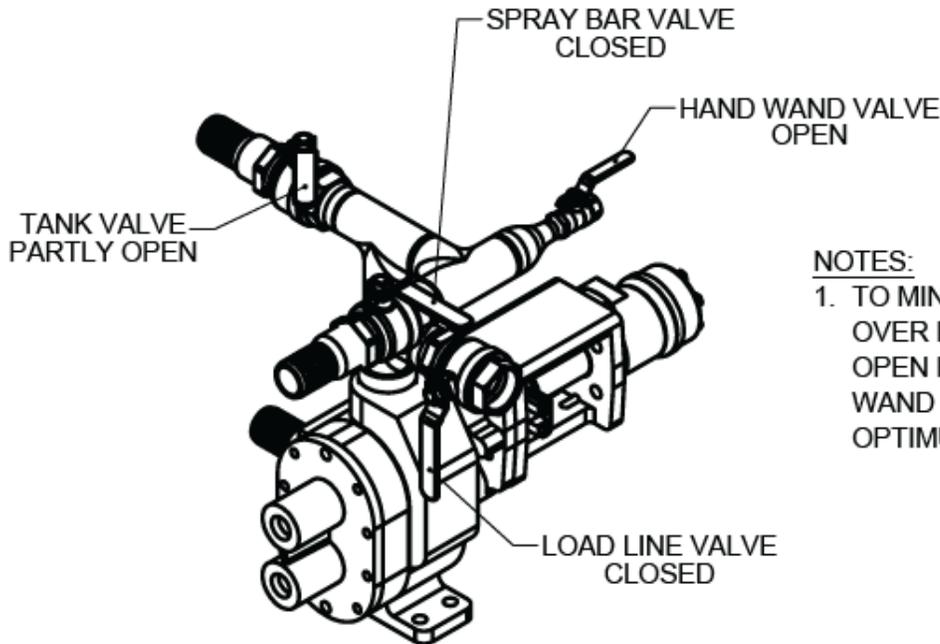
**Chapter 5 Operating Instructions**

**5.3 Hand Sprayer Operation**

**Table 5-3 Hand Sprayer Operation**

Step	Action
1	Partially open the recirculating tank valve to feather to minimize hydraulic system going over relief. Use the tank valve to regulate wand spray pattern.
2	At the front of the unit move the pump direction lever into the "Forward."
3	At the back of machine, open hand spray wand valve. Material should begin to spray.
4	When finished spraying, close the recirculating tank valve and switch the pump direction to "Reverse." This will return the unused material from the spray wand and lines to the material tank.
5	Close and open the hand spray "wand valve" a few times to ensure as much material is removed as possible.
6	After the material has been returned and you can hear "sucking" noises from the wand move the pump direction lever to "Neutral" and close spray wand valves.

**Figure 5-2 Hand Wand Spraying Valve Diagram**



**NOTES:**

1. TO MINIMIZE HYDUALIC SYSTEM GOING OVER RELIEF, THE TANK VALVE MAY BE OPEN PART WAY. USE THE SPRAY WAND FAN SPRAY TO DETERMINE OPTIMUM SPRAY PATTERN.

**Chapter 5 Operating Instructions**

**5.4 Spray Bar Operation**

**Table 5-4 Spray Bar Operation – Cab Control**

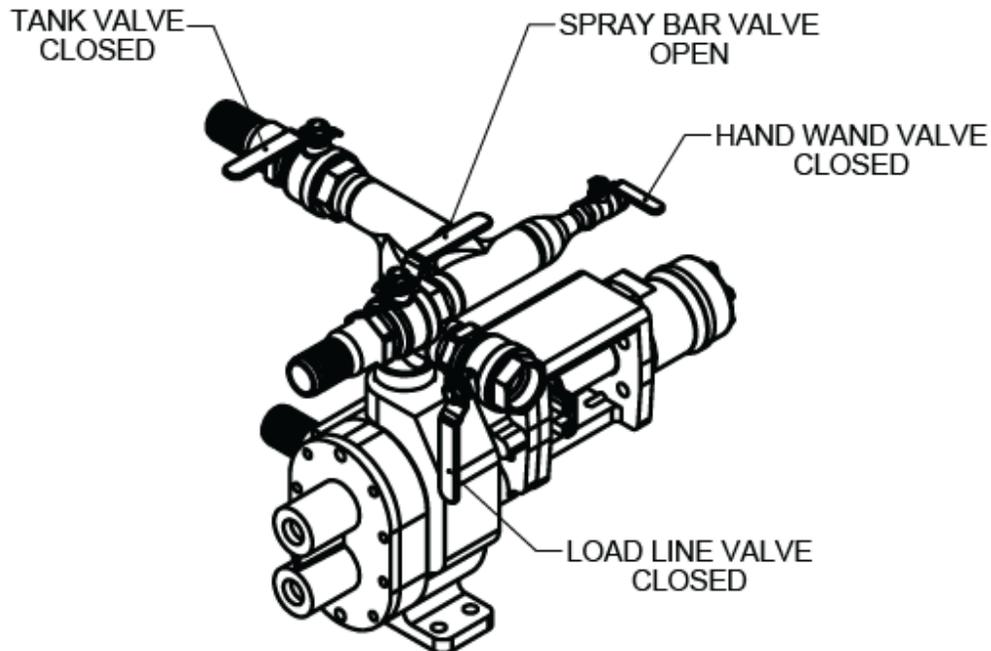
Step	Action
1	With engine at idle, pull the pump direction lever at the front of the machine to “Forward” position.
2	Turn the control ball valve to the “In Cab” position.
3	At the rear of the machine, open the spray nozzle valves and spray bar valve.
4	Position the trailer to the area you wish to spray and turn your headlight switch to ON position. Spray bar will begin to spray. Maintain a vehicle speed of 2-3 MPH while spraying.
5	To stop spraying, shut headlights off.

Please note that when using a vehicle equipped with daytime running lights, you must check that taillights are not on until the headlight switch is on. (Standard daytime running lights equipped on most new vehicles only turn on the headlights. The taillight on wire controls the spray bar.)

**Table 5-5 Spray Bar Operation – Manual Control**

Step	Action
1	Turn the control ball valve to the “Manual” position.
2	At the rear of the machine, open the spray nozzle valves and spray bar valve.
3	Position the trailer where you want to spray. Push the pump direction lever to “Forward” position.

**Figure 5-3 Spray Bar Spraying Valve Diagram**



## Chapter 5 Operating Instructions

### 5.5 Cleanout Procedure

Cleanout must be performed at the end of each day to keep plumbing lines clean and clear of obstructions. This includes reclaiming material into the tank and flushing the lines with solvent.

If traveling from one job to another, the operator should perform the reclaiming procedure before transporting the tank trailer. Flushing the lines only needs to be done after spraying is complete for the day.

#### 5.5.1 Reclaiming material

Reclaiming material to the tank prevents material from cooling and solidifying in the plumbing, which forms clogs. To reclaim material, the operator must reverse the pump so that material flows back into the tank.

**Table 5-6 Reclaiming Material**

Step	Action
1	Set engine speed to high idle.
2	At the front of the machine, pull pump valve lever to “Reverse” position.
3	At rear of machine, close hand spray valve at the tank, then open hand spray valve on the wand until you hear air sucking through the end. Close and open the hand spray wand valve a few times to ensure as much material is removed as possible.
4	Close the hand spray valve.
5	To clean out the spray bar, leave the pump direction lever in reverse and turn the spray bar switch ON. This will suck air in through the spray bar. Do this a few times to ensure as much material is removed as possible.
6	At the front of the machine pull the pump direction lever to “Neutral” and return engine to low idle.

#### NOTICE

If finished spraying for the day, please perform the flushing procedure. Failure to flush the lines with solvent regularly may lead to solidified build-up that reduces performance.

#### 5.5.2 Flushing with Solvent

Flushing the lines with solvent at the end of the day removes the thin coating of material inside the lines. If left unflushed, the thin coating would build up and solidify over time, leading to reduced flow and eventual clogging.

Solvent can be reused, but it must be replaced if it becomes too dirty. Dispose of used solvent safely, in accordance with local laws.

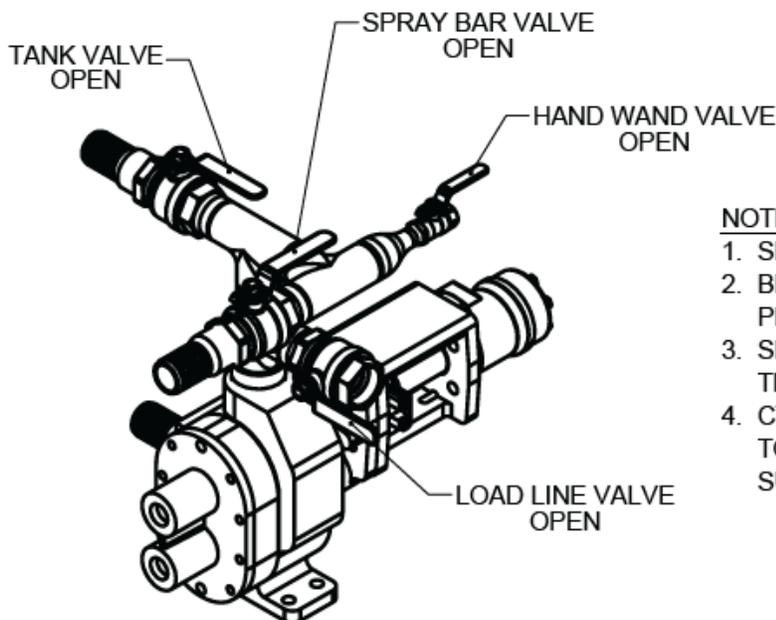
**Continue to next page for flushing procedure.**

**Chapter 5 Operating Instructions**

**Table 5-7 Flushing with Solvent**

Step	Action
1	Move the cleanout lever (connecting the two valves closest to the back of the tank) to the Cleanout position.
2	Loosen the cap on the washdown solvent tank to prevent suction pressure buildup.
3	On the pump, open the sprayer bar valve and the sprayer wand valve.
4	Close the valve on the hand sprayer and close each nozzle on the spray bar.
5	At the front of the machine, pull the pump direction lever to "Forward" to supply cleanout solvent to the spray bar and wand.
6	Place the tip of the hand sprayer into the solvent tank and open the hand sprayer valve to circulate solvent through the hand sprayer.
7	Close and reopen the hand sprayer valve several times to help clear any stubborn build-up. Once the circulating solvent appears clear, close hand sprayer valve.
8	Place a bucket or other receptacle beneath one of the spray bar nozzles and open the nozzle valve to start the flow of solvent.
9	Once the solvent appears clear, close the nozzle valve.
10	Repeat steps 8 and 9 to clean each individual nozzle.
11	At the front of the machine, move the pump direction lever to the Neutral position. The engine may be shut off now.
12	Move the cleanout lever at the back of the machine back to the open position.
13	Tighten the solvent tank cap.

**Figure 5-4 Cleanout Valve Diagram**



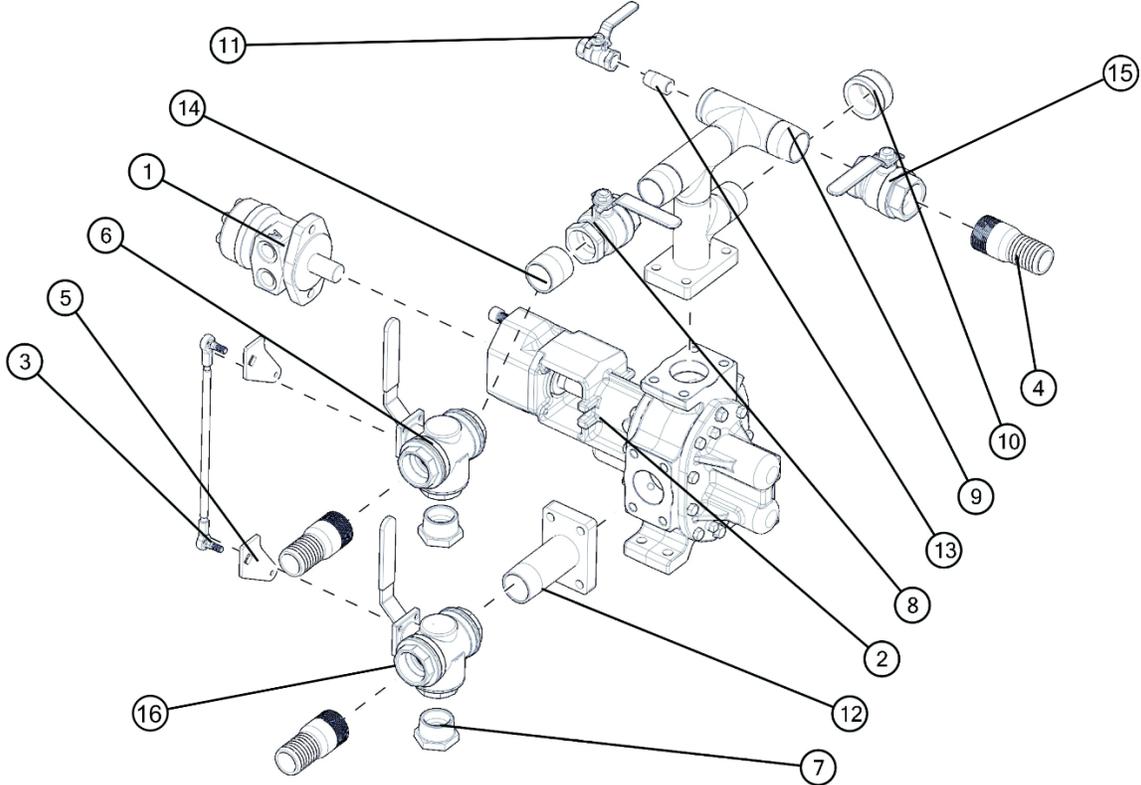
**NOTES:**

1. SHUT OFF ALL SPRAY NOZZLE VALVES.
2. BE SURE THAT THE LOAD LINE HOSE PLUG IS SECURE.
3. SPRAY HOSE WAND INTO FILL NECK OF THE CLEAN-OUT TANK.
4. CYCLE NOZZLE VALVES ONE AT A TIME TO PURGE MATERIAL OUT INTO A SUITABLE CONTAINER.

**Chapter 5 Operating Instructions**

**5.6 Equipment Diagrams**

**Figure 5-5 Pump Parts Diagram**

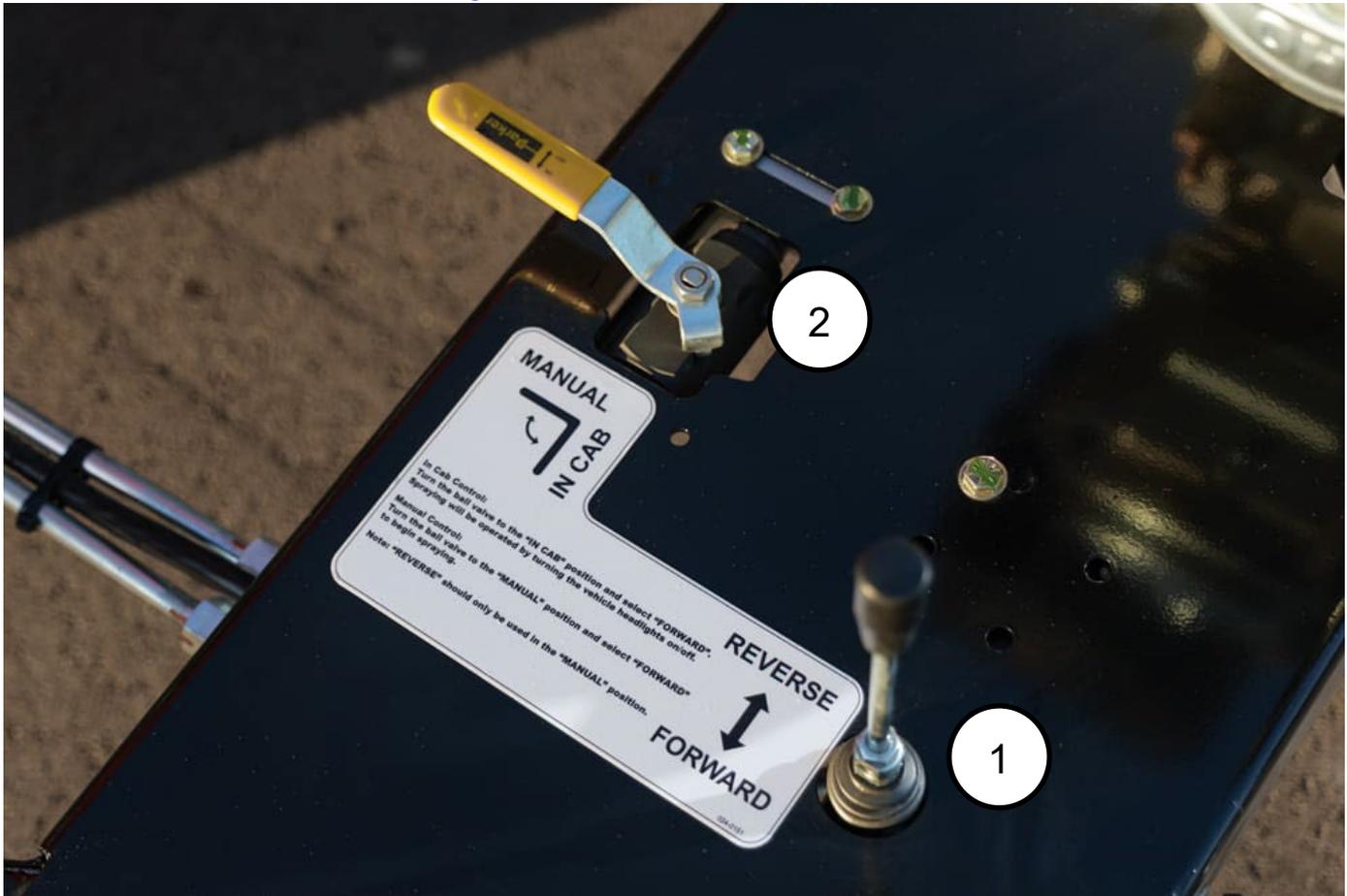


**Table 5-8 Pump Parts**

Number	Description
1	Hydraulic Motor
2	Material Pump Body
3	Cleanout Linkage Assembly
4	Nipple
5	Cleanout Valve Bracket
6	3-Way Recirculation Ball Valve 1.5" (Return Cleanout Valve)
7	Bushing Reducer
8	Ball Valve
9	Piping Weldment
10	Cap Black Iron 1.5"
11	Spray Wand Ball Valve
12	Pump Inlet Weldment
13	Nipple 0.5"
14	Nipple Close 1.5"
15	Spray Bar Ball Valve
16	3-Way Pump Inlet Ball Valve 1.5" (Inlet Cleanout Valve)

**Chapter 5 Operating Instructions**

**Figure 5-6 Pump Controls**



Pump control levers are located at the front of the trailer, next to the engine on the passenger side.

**Table 5-9 Pump Control Description**

Number	Description
1	Pump Direction – Forward to spray; Reverse to reclaim material to tank.
2	Spray-bar control method

## Chapter 5 Operating Instructions

### 5.7 Guideline Temperatures for Common Liquid Asphalts and Emulsions

**Table 5-10 Liquid Asphalts**

Type & Grade	Spraying Temp. (C)	Spraying Temp. (F)	Type & Grade	Spraying Temp. (C)	Spraying Temp. (F)
AC-2.5	130	270	MC-30	30	80
AC-5	140	280	MC-70	50	120
AC-10	140	280	MC-250	75	165
AC-20	145	295	MC-800	95	200
AC-40	150	300	MC-3000	110	230
AR-1000	135	275	RC-70	50	120
AR-2000	140	285	RC-250	75	195
AR-4000	145	290	RC-800	95	200
AR-8000	145	290	RC-3000	110	230
SC-70	50	120	PEN 40-50	150	300
SC-250	75	160	PEN 60-70	145	295
SC-800	95	200	PEN 85-100	140	280
SC-3000	110	230	PEN 12-150	130	270
			PEN 200-300	130	270

**Table 5-11 Asphalt Emulsions**

Emulsion	Spraying Temp. (C)	Spraying Temp. (F)
RS-1	20-60	70-140
RS-2	50-85	125-185
HFRS-2	50-85	125-185
MS-1	20-70	70-160
MS-2	20-70	70-160
MS-2h	20-70	70-160
HFMS-1	20-70	70-160
HFMS-2	20-70	70-160
HFMS-2h	20-70	70-160
HFMS-2s	20-70	70-160
SS-1	20-70	70-160
SS-1h	20-70	70-160
CRS-1	50-85	125-185
CRS-2	50-85	125-185
CMS-2	20-70	70-160
CMS-2h	20-70	70-160
CSS-1	20-70	70-160
CSS-1h	20-70	70-160

## Chapter 6 Maintenance Instructions

### 6.0 Maintenance Instructions

This chapter contains all normal maintenance instructions to properly maintain your machine.

#### 6.1 Engine

Refer to the engine manufacturer's operating and maintenance instructions.

For an online PDF manual, visit <https://www.engines.rehiko.com/products/CH395>.

#### 6.2 Hydraulic System

Check hydraulic fluid daily.

Change hydraulic filter every 250 hours of machine operation.

Change hydraulic fluid every 500 hours of operation.

#### 6.3 Burner

Refer to burner manufacturer's operating and maintenance instructions. For an online PDF manual, visit <https://www.beckettcorp.com/manuals-and-guides/burner-manual-adc-oil-burner-0point75-to-2point50-gph-dc-power-12v/>.

#### 6.4 Material Pump

Refer to the manufacturer's operating and maintenance instructions. For an online PDF manual, visit <https://roperpumps.com/3600-2/#2680-2789-wpfd-instructions-owners-manual>.

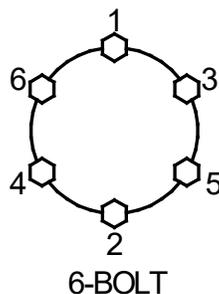
#### 6.5 Lug Nuts

Torque all nuts/bolts before first road use and after each wheel removal. Check and torque after the first 10 miles, 25 miles, and again at 50 miles. Check periodically thereafter.

Torque in stages as follows:

- First stage 20-25 foot-pound (ft-lb)
- Second stage 50-60 foot pound (ft-lb)
- Third stage 90-120 foot pound (ft-lb)

Tighten bolts and nuts in the sequence shown in [Figure 6-1 Lug Bolt Tightening Sequence](#).



**Figure 6-1 Lug Bolt Tightening Sequence**

## Chapter 6 Maintenance Instructions

### 6.6 Brakes

Check the brakes daily.

### 6.7 Tongue Jack

Lubricate the tongue jack, using a good grade of bearing grease.

### 6.8 Cleaning the Machine

We recommend using Orange-Sol industrial cleaner for cleaning the exterior of the machine. Here is the website for the cleaner: <https://www.orange-sol.com/industrial-formula/>.

### 6.9 Maintenance Chart

**Table 6-1 Maintenance Chart**

Item	Action	Interval
Air Cleaner	Inspect	250 hours
	Change	12 months or 500 hours (More often in dusty conditions)
Engine Oil Level	Inspect	Daily
	Change	12 months or 200 hours
Radiator Coolant Level	Inspect	Daily
	Change	12 months or 500 hours
Hydraulic Oil Level	Inspect	Daily
	Change	12 months or 500 hours
Conveyer Chain (if equipped)	Inspect	6 months or 250 hours
Fuel Filter	Change	12 months or 500 hours
Engine Oil Filter	Change	12 months or 200 hours
Hydraulic Oil Filter	Change	12 months or 500 hours
Grease Points	Apply Grease	Daily
Radiator Fins	Clean	12 months or 500 hours

## Chapter 6 Maintenance Instructions

### 6.10 Service Instructions

**Table 6-2 Service Instructions**

Step	Action
1	Do a general inspection of the machine at least once a week.
2	Replace all worn or damaged parts. <b>Note:</b> Keep regular replacement items in stock for emergency repairs to prevent costly downtime.
3	Make necessary adjustments and tighten all loose nuts or screws.
4	Watch for leaks. Tighten fittings or repair as necessary.
5	Clean the external surfaces of the machine at regular intervals.

### 6.11 Recommended Fluids and Lubricants

**Table 6-3 Recommended Fluids and Lubricants**

Application	Recommended	Full Point
Engine Oil	Refer to engine manual	1.16 U.S. qt. (1.1 L)
Solvent Fluid	Asphalt solvent	5 gal. (19 L)
Hydraulic Oil	AW 46	5 gal. (19 L)

## Chapter 7 Illustrated Parts List

### 7.0 About the Illustrated Parts List

The Illustrated Parts List is designed to help technical service or maintenance personnel correctly identify orderable replacement parts.

Illustrations are designed to show general shape and size of a part and the relationship that part has to other parts. Actual size and shape of parts or components may differ or vary from the actual part or component.

### 7.1 Ordering Crafco Parts

Crafco distributors and Crafco Pavement Preservation Supply Centers are strategically located throughout the United States. Parts can be ordered from your local Crafco distributor or directly from Crafco, Inc. if a distributor is not available in your area.

When ordering parts, give the following information:

- Part Number
- Machine Model
- Serial Number

Write, call, or fax Crafco, Inc. at the following:

#### **Crafco, Inc. Headquarters**

14415 South 50th St.

Suite 100

Phoenix, AZ 85044

Phone: (602) 276-0406

Toll Free: (800) 528-8242

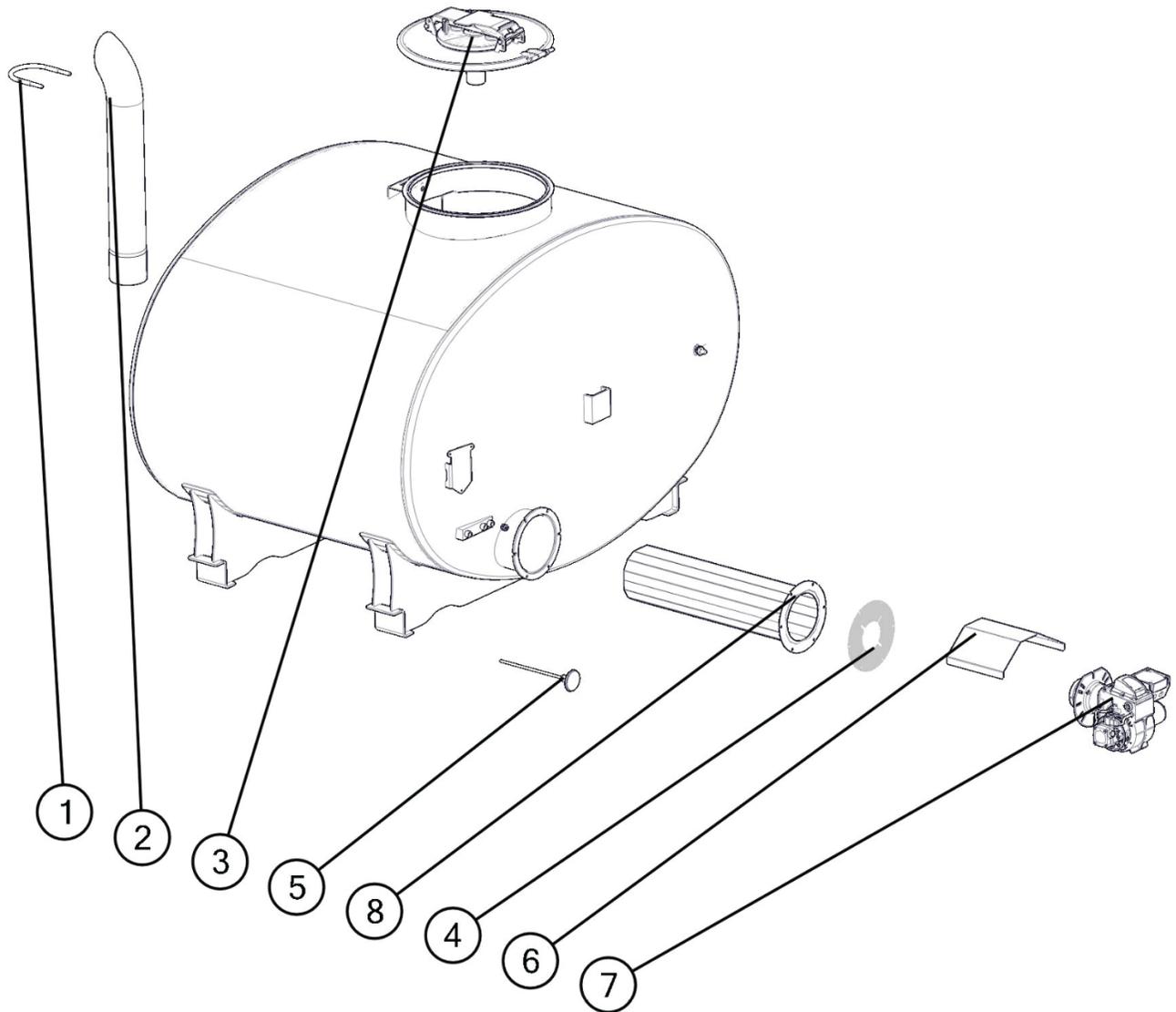
Fax: (480) 961-0513

Visit our website at [www.crafco.com](http://www.crafco.com)

**Chapter 7 Illustrated Parts List**

**7.2 Tank Assembly and Burner System**

**Figure 7-1 Tank and Burner Diagram**



## Chapter 7 Illustrated Parts List

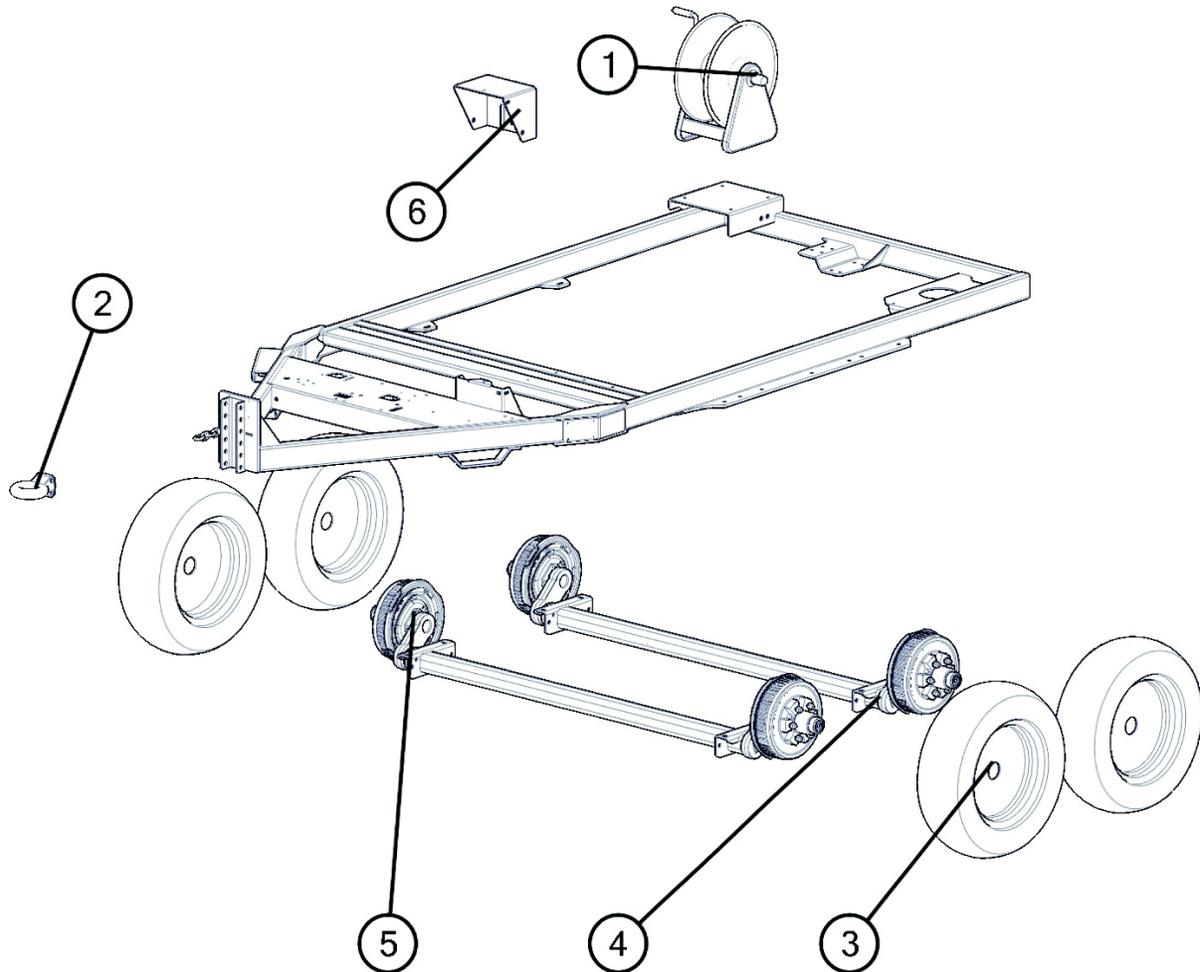
**Table 7-1 Tank and Burner Parts**

Number	Description
CB500017	U-Bolt Clamp
CB500018	Exhaust Pipe
CB500019	Manhole Lid
CB500020	Burner Mount Plate
CB500021	Thermometer
CB500022	Diesel Burner Shroud
CB500023	Diesel Burner Assembly

**Chapter 7 Illustrated Parts List**

**7.3 Trailer Frame**

**Figure 7-2 Trailer Frame Diagram**



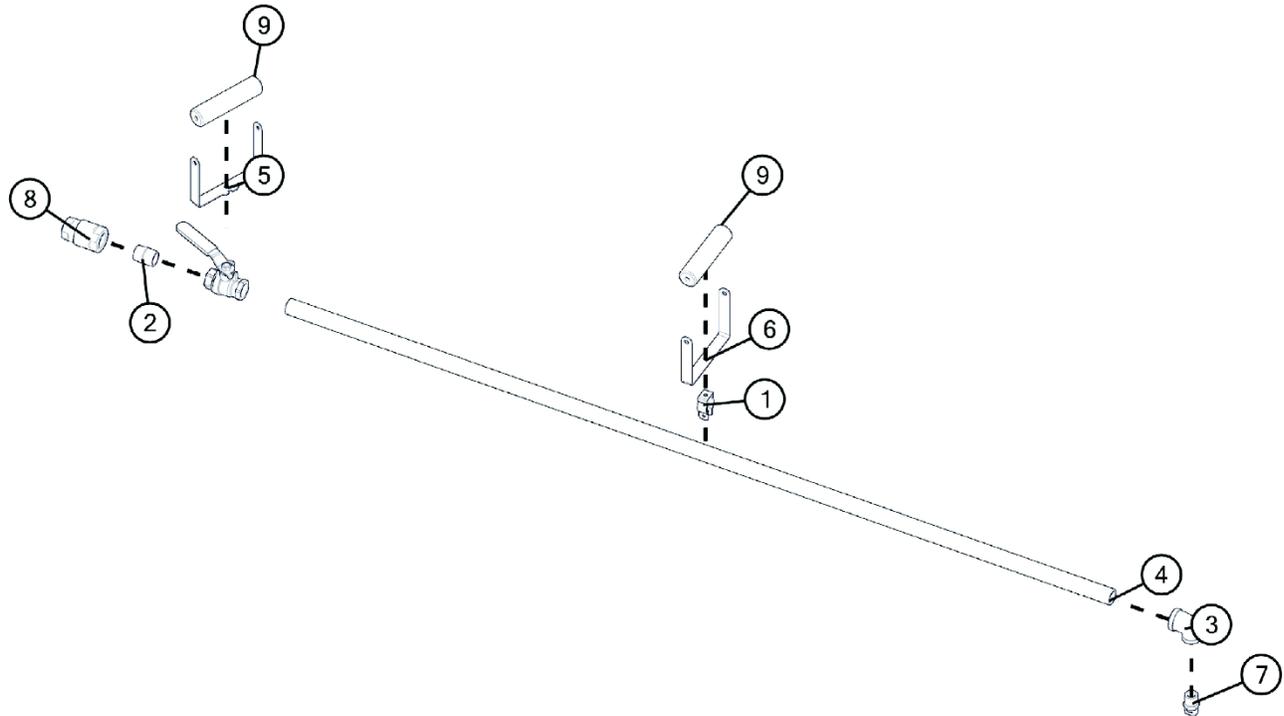
**Table 7-2 Trailer Frame Parts**

Number	Description
CB500024	Hose Reel
CB500025	Hose
CB500026	Pintle Hook Ring
CB500027	Trailer Wheel/Tire Assembly
CB500028	Axle Assembly Without Brake
CB500029	Axle Assembly W/ Electric Brake
CB500024	Weldment Battery Cover

**Chapter 7 Illustrated Parts List**

**7.4 Hand Wand Assembly**

**Figure 7-3 Hand Wand Diagram**



**Table 7-3 Hand Wand Parts**

Number	Description
CB500030	Clamp Conduit
CB500031	Nipple, Close, 3/4"
CB500032	Elbow, 90deg
CB500033	Shaft
CB500034	Handle, Ball Valve
CB500035	Handle, Wand, Front
CB500036	Spray Nozzle
CB500037	Swivel Coupler
CB500038	Wooden Handle
CB500039	Ball Valve
--	<i>Complete Hand Wand Assembly also available.</i>

## Chapter 7 Illustrated Parts List

### 7.5 Engine and Hydraulic Pump Assembly

**No illustration available.**

Refer to engine manual or consult a Crafco representative.

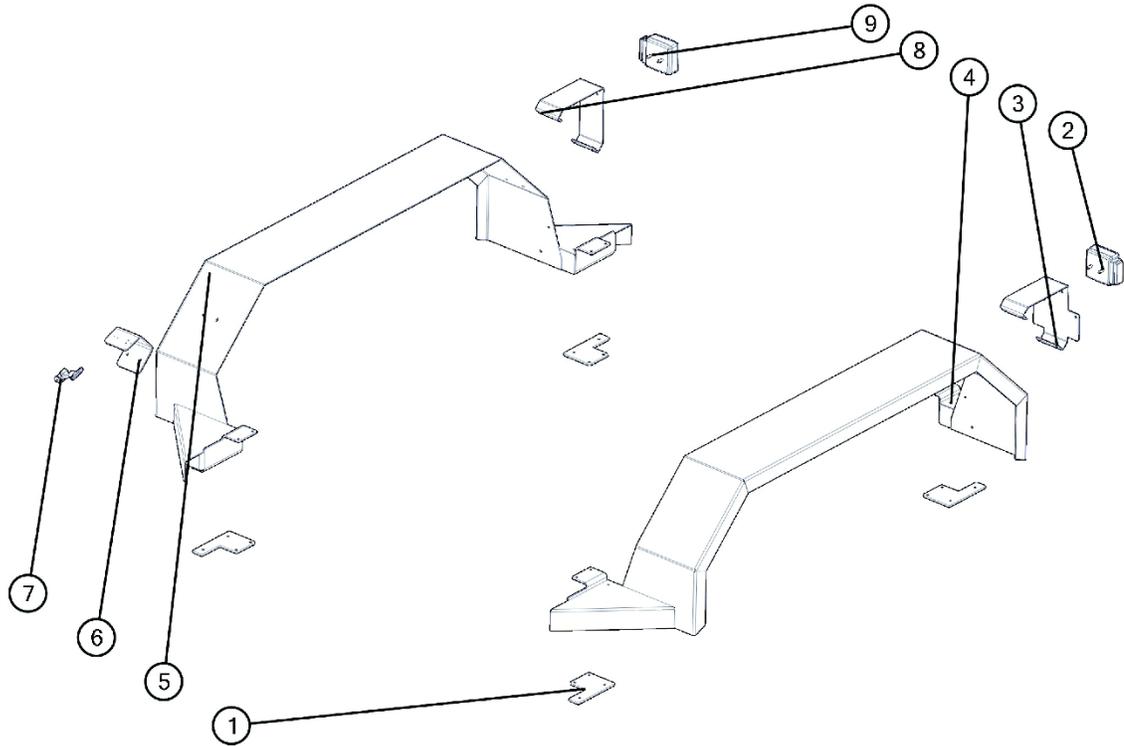
**Table 7-4 Engine and Hydraulic Pump Parts**

Number	Description
CB500040	Eng Kohler 9.5 Hp
CB500041	Starter Complete
CB500042	Cap Fuel
CB500043	Switch Ignition Assembly
CB500044	Filter Air 9.5hp
CB500045	Filter Pre Cleaner Air Kohler 9.5hp
CB500046	Cover Air Filter Kohler 9.5hp
CB500047	Starter Recoil Assembly
CB500048	Gasket Air Cleaner
CB500049	Base Air Filter
CB500050	Cover Base A/C
CB500051	Filter Fuel Tank
CB500052	Solenoid Starter
CB500053	Lever Fuel Shut Off
CB500054	Carburetor
CB500055	Switch Ignition Only Ch395 Kohler Engine
CB500056	Harness To Voltage Regulator
CB500057	Cover Air Filter Base Carburetor
CB500058	Line Fuel Cut to Length
CB500059	Key Spare Kohler
CB500060	Assembly Spark Plug
CB500061	Regulator Voltage Kohler 9.5 Hp Eng
CB500062	Pump Hydraulic
CB500063	Sprocket Pump Side
CB500064	Sprocket Engine Side
CB500065	Coupling Chain
CB500066	Pump Mount
CB500067	Mount Cover Plate

**Chapter 7 Illustrated Parts List**

**7.6 Fender Assemblies**

**Figure 7-4 Fender Assemblies Diagram**



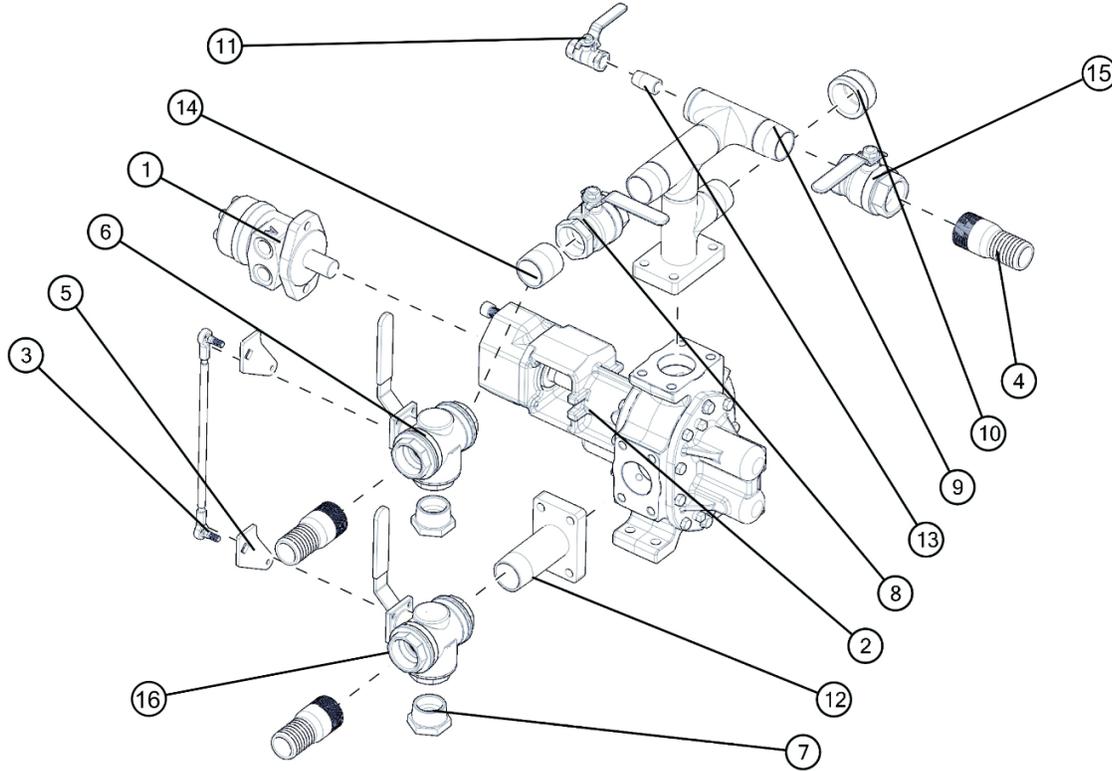
**Table 7-5 Fender Parts**

<b>Number</b>	<b>Description</b>
CB500068	Bracket Fender Mounting
CB500069	Brake Light without License Light
CB500070	Brake Light Bracket w/ License Plate
CB500071	Fender Weldment LH
CB500072	Fender Weldment RH
CB500073	Bracket Mount Hand Wand
CB500074	Rubber Latch Kit
CB500075	Brake Light Bracket
CB500076	Brake Light

**Chapter 7 Illustrated Parts List**

**7.7 Material Pump**

**Figure 7-5 Material Pump Diagram**



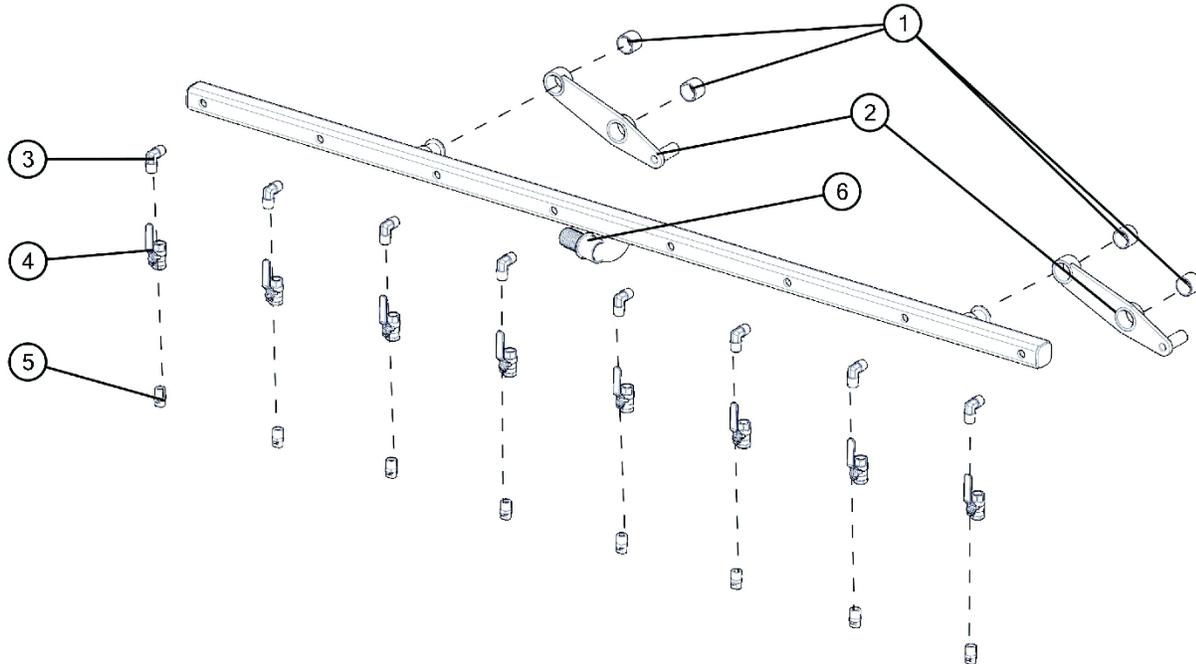
**Table 7-6 Material Pump Parts**

Number	Description
CB500001	Hydraulic Motor
CB500002	Material Pump Body
CB500003	Cleanout Linkage Assembly
CB500004	Nipple
CB500005	Cleanout Valve Bracket
CB500006	3-Way Recirculation Ball Valve 1.5" (Return Cleanout Valve)
CB500007	Bushing Reducer
CB500008	Ball Valve
CB500009	Piping Weldment
CB500010	Cap Black Iron 1.5"
CB500011	Spray Wand Ball Valve
CB500012	Pump Inlet Weldment
CB500013	Nipple 0.5"
CB500014	Nipple Close 1.5"
CB500015	Spray Bar Ball Valve
CB500016	3-Way Pump Inlet Ball Valve 1.5" (Inlet Cleanout Valve)

**Chapter 7 Illustrated Parts List**

**7.8 Spray Bar**

**Figure 7-6 Spray Bar Diagram**



**Table 7-7 Spray Bar Parts**

Number	Description
CB500093	Brass Bushing
CB500094	Pivot Arm
CB500095	Brass Elbow
CB500096	Brass Ball Valve
CB500097	Nozzle
CB500098	Spray Bar Weldment

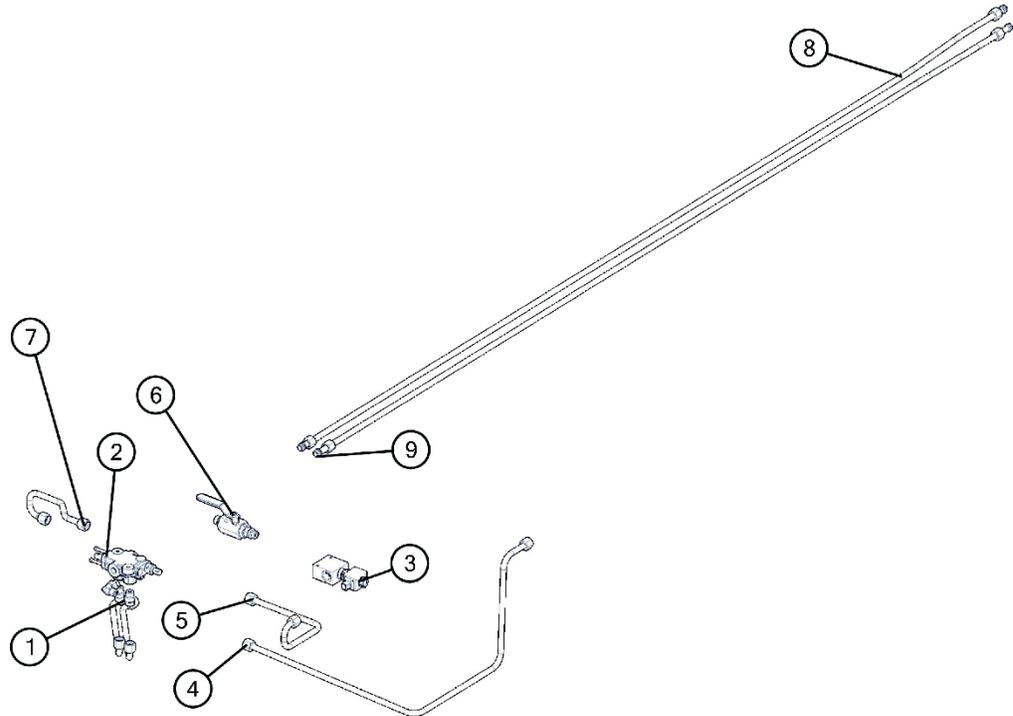
**Table 7-8 Additional Nozzle Sizes**

Nozzle Size	Stamped Marking	Recommended Flow GPM **Based on 35psi**	Application Rate (Gallons per Square Yard)
0	15/95	1.2	.03-.08
0	30/95	3	.05-.20
1	50/95	4	.10-.30
1.5	60/95	6	.15-.40
2	80/95	8.5	.25-.55

**Chapter 7 Illustrated Parts List**

**7.9 Hydraulic Components**

**Figure 7-7 Hydraulic Components Diagram**



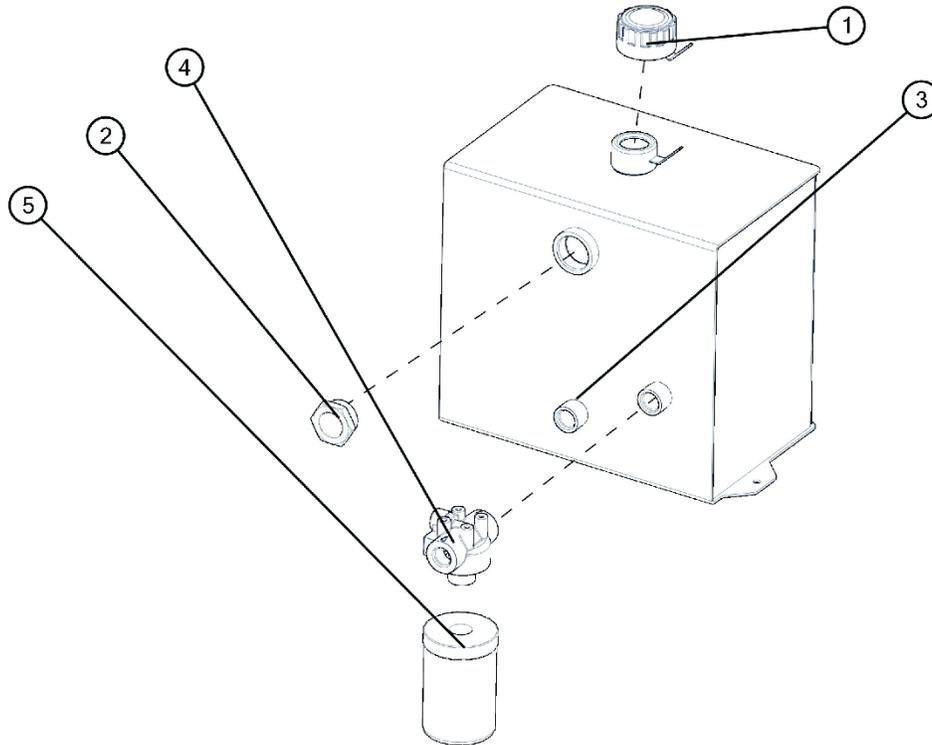
**Table 7-9 Hydraulic Components Parts**

<b>Number</b>	<b>Description</b>
CB500099	Tube Assy Tack Tank Selector Valve Output
CB500100	Valve Forward Reverse
CB500101	Electric Valve Assembly
CB500102	Tube Assembly Tank Return
CB500103	Tube Assembly Ball Valve Bypass Long
CB500104	Ball Valve Hydraulic
CB500105	Tube Assembly Bypass Short
CB500106	Asphalt Pump Motor Tubing, Long
CB500107	Asphalt Pump Motor Tubing, Short

**Chapter 7 Illustrated Parts List**

**7.10 Hydraulic Tank**

**Figure 7-8 Hydraulic Tank Diagram**



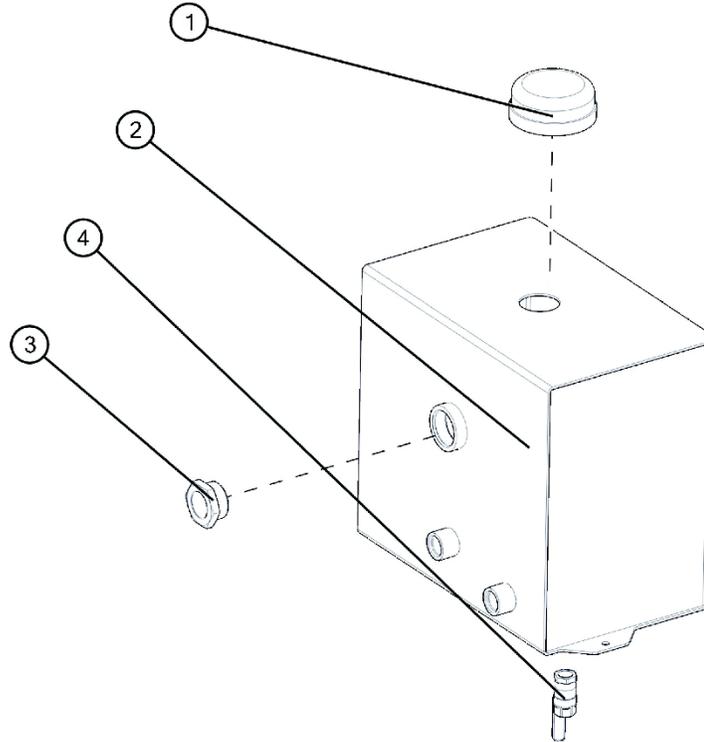
**Table 7-10 Hydraulic Tank Parts**

Number	Description
CB500108	Cap Locking
CB500109	Sight Gauge
CB500110	Hydraulic Tank
CB500111	Filter Head
CB500112	Filter Element

**Chapter 7 Illustrated Parts List**

**7.11 Washdown Solvent Tank**

**Figure 7-9 Washdown Solvent Tank Diagram**



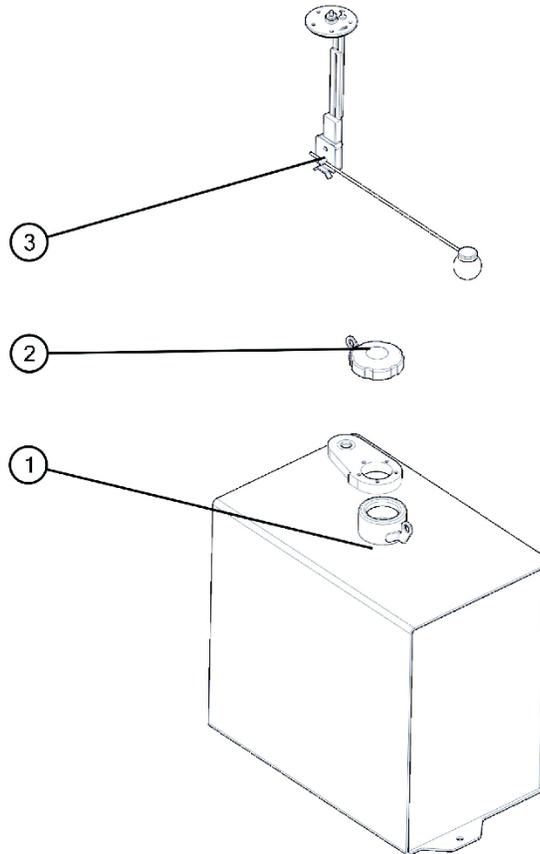
**Table 7-11 Washdown Solvent Tank Parts**

Number	Description
CB500113	Cap Washdown Tank
CB500114	Tank Wash Down Weldment
CB500115	Sight Gauge
CB500116	Ball Valve

**Chapter 7 Illustrated Parts List**

**7.12 Diesel Burner Fuel Tank**

**Figure 7-10 Diesel Burner Fuel Tank Diagram**



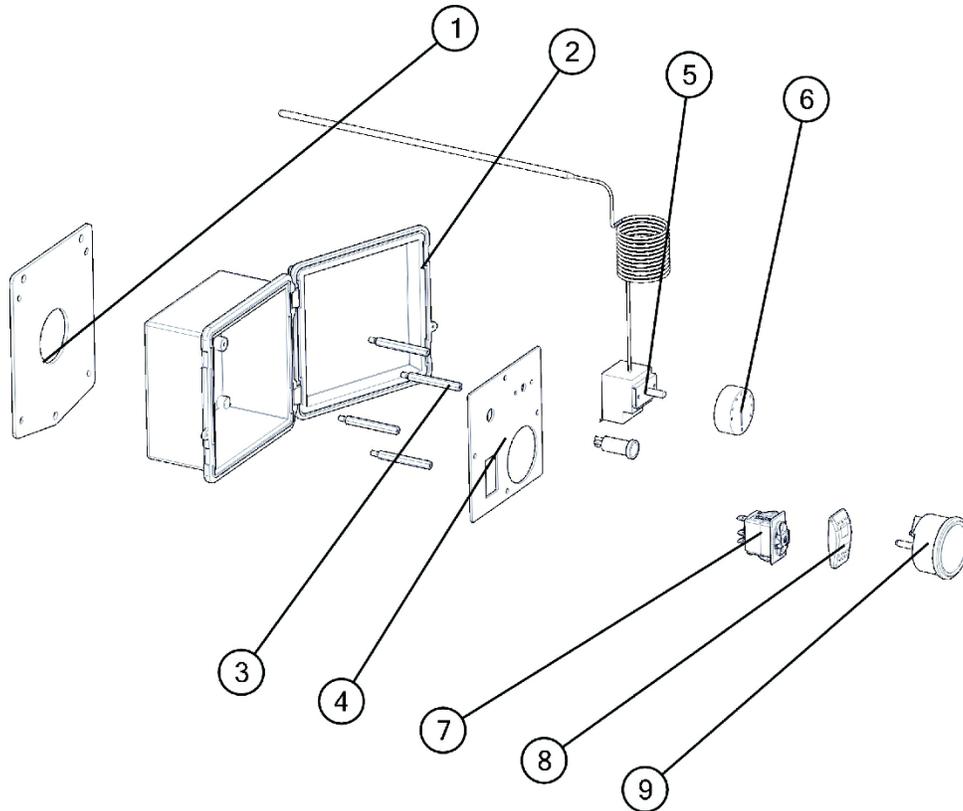
**Table 7-12 Diesel Burner Fuel Tank Parts**

Number	Description
CB500117	Fuel Tank Weldment
CB500118	Fuel Cap
CB500119	Sender Fuel Level

**Chapter 7 Illustrated Parts List**

**7.13 Burner Control**

**Figure 7-11 Burner Control Diagram**



**Table 7-13 Burner Control Parts**

<b>Number</b>	<b>Description</b>
CB500120	Burner Control Mount Bracket
CB500121	Enclosure
CB500122	Standoff Male-Female M4
CB500123	Plate Control Box TP
CB500124	thermostat
CB500125	Knob Thermostat
CB500126	Rocker Switch
CB500127	Rocker Switch Actuator
CB500128	Fuel Gauge



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