



**SUPER SHOT 125 DIESEL  
COMPRESSOR/ROUTER CARRIER  
(125 DCRC)  
PART MANUAL - 26366**



**SUPER SHOT 125 DIESEL  
COMPRESSOR/ROUTER CARRIER  
(125 DCRC)**



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# SUPER SHOT 125 MELTER WITH AIR COMPRESSOR (125 DCRC)

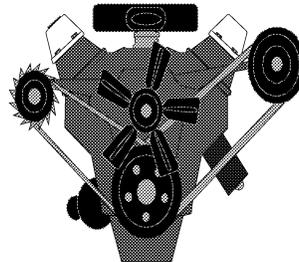
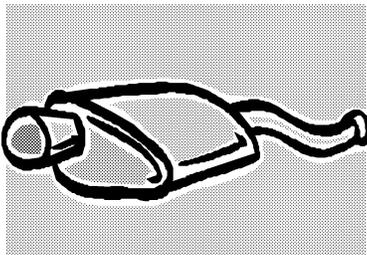
This manual is furnished with each new **CRAFCO SUPER SHOT 125 MELTER**. This manual will help your machine operators learn to run the melter applicator properly and understand its mechanical functions for trouble-free operation.

Your **CRAFCO SUPER SHOT 125 MELTER W/ AIR COMPRESSOR** is designed to give excellent service and save maintenance expense. However, as with all specially engineered equipment, you can get best results at minimum costs if:

- (1) You operate your machine as instructed in this manual.
- (2) Maintain your machine regularly as stated in this manual.

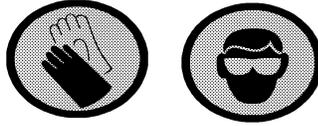


**WARNING:** The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Operate in well ventilated area only. Engine exhaust is deadly.



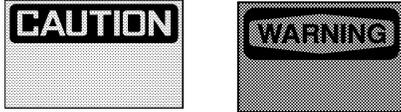
# SAFETY PRECAUTIONS

- High operating temperatures of sealant and machine require protective clothing and gloves be worn by operator.



- Always wear eye protection.

- Observe all **CAUTION AND WARNING** signs posted on machine.



- Avoid the entrance of water into any part of the machine. Water will displace heat transfer oil or sealant, which could be hazardous to personnel surrounding the machine when it reaches operating temperatures.

- Avoid bodily contact with hot sealant material or heat transfer oil, serious burns may result.

- Read Operator Manual thoroughly before operating machine.

- Make sure operator is familiar with machine operation.

- Do not operate in closed building or confined areas.

- Shut-down burner and engine prior to refilling diesel tank.

- When adding solid material to sealant tank, stop mixer, lift lid, place material onto lid and close lid before restarting mixer. Hot material could splash and cause serious burns if this procedure is not followed.

- Keep hands, feet, and clothing away from all moving parts.

- Always keep a fire extinguisher near the unit. Maintain extinguisher properly and be familiar with its use.



- **DO NOT** exceed 525° F. for heat transfer oil temperature.

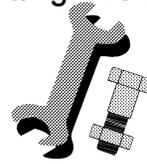
- **DO NOT** overfill heat transfer oil level. Expansion of oil during heat up could cause overflow. With machine in level position, check oil each day before starting burner, add oil to top mark on dipstick if required (at 70° F.). **Use only recommended heat transfer oil and change after 500 hours of operation or one year, whichever occurs first.**

- Follow operating instructions for starting and shut-down of burner. Instructions are mounted on control box.

- Calibrate temperature control prior to initial operation and each 50 hours of operation.

# SAFETY PRECAUTIONS

- Replace any hoses which show signs of wear, fraying, or splitting. Be sure all fittings and joints are tight and leak-proof.



- Precaution is the best insurance against accidents.

- The Super Shot 125 Diesel Melter should not be left unattended with burner lit.

- Tighten all bolts and screws after every 100 hours of operation.

- Crafco, Inc. assumes no liability for an accident or injury incurred through improper use of the machine.

- Refer to the Compressor Manual for operating procedures and safety precautions.

## LIMITED WARRANTY

Crafco, Inc., through its authorized distributor, will replace for the original purchaser free of charge any parts found upon examination by the factory at Mesa, Arizona, to be defective in material or workmanship. This warranty is for a period within 60 days of purchase date, but excludes engine or components, tires, and battery as these items are subject to warranties issued by their manufacturers.

After 60 days, Crafco, Inc., warrants structural parts, excluding heating system, hydraulic components, material pump and hoses, hot oil pump, applicator valves, and electrical components for a period of (1) one year from date of delivery. 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 bore by the purchaser.

Crafco, Inc. specifically disavows any other representation, warranty, or liability related to the condition or use of the product.



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

# WARRANTY CLAIM INSTRUCTIONS

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

1. Call your local Crafcro Distributor. If you do not know who your local distributor is, call a Crafcro Customer Service Representative, (Toll Free 1-800-528-8242) for name, location, and telephone number.
2. On contacting the distributor, be prepared to identify the machine type, model number, and serial number, also, the date of purchase if available.
3. Should the cause of the malfunction be a defective part, the distributor will advise you of the procedure to follow for a replacement.
4. The warranty is valid only for parts, which have been supplied or recommended by Crafcro, Inc.

If you have any additional questions regarding warranty repairs and parts, please do not hesitate to call toll free 1-800-528-8242.

CRAFCO, INCORPORATED  
235 SOUTH HIBBERT DRIVE  
MESA, AZ. 85210  
480-655-8333  
Toll Free 1-800-528-8242

## **SPECIFICATIONS**

Vat Capacity.....	125 Gallons
Melt Capacity.....	90 Gallons/Hour
Heat Transfer Oil Required.....	34 Gallons at 70° F
Tank Construction.....	Double Boiler Type
Tank Opening Size.....	14" X 18"
Maximum Heat Input.....	250,000 BTU
Burner and Temperature Control.....	Diesel-Forced Air Thermostatic Control
Engine - Isuzu..... Model 3LD1C - Diesel	Three Cylinder 37 BHP @ 3,600 rpm
Hydraulic Drive Mechanism.....	All Hydraulic with infinite speed on Mixer and Material Pump
Mixer.....	Full Sweep Mixer with 2 horizontal paddles Vertical risers
Axle.....	Dual - 3,500# Torsional
Tires (4).....	185R-14-8 ply rating
Dry Weight.....	Approximately 4,020 lbs.
Diesel Tank Capacity.....	32 Gallons
Hydraulic Tank Capacity.....	32 Gallons
Air Compressor.....	36.8 CFM Dual Stage Rated @ 100 PSIAir Pressure Setting

# SUPER SHOT 125 MELTER WITH AIR COMPRESSOR OPERATING INSTRUCTIONS

## INTRODUCTION

The CRAFCO SUPER SHOT 125 MELTER was developed to melt CRAFCO Brand Sealant. However, it will work equally well with all road asphalt and federal specification crack or joint sealant.

**DO NOT** operate machine without following these instructions:

1. Fill fuel tank with diesel fuel (use #1 in cold weather, #2 in warm weather).
2. Check engine crankcase oil level (refer to Engine Operator's Manual).
3. Check hydraulic fluid level, at 70° F. Add fluid if necessary.
4. Check heat transfer oil level. At ambient temperature, the oil should be at the full mark on the dipstick. **DO NOT** overfill or spillage may occur when oil is heated and expands.
5. All toggle switches should be turned “OFF” and both temperature control dials at minimum settings.
6. Remember that safe operation of this equipment is the operator's responsibility.



### **CAUTION:**

Extreme care must be used when operating this equipment. Safety is the result of being careful and paying attention to details. Remember the diesel flame is about 2,200° F. Certain exposed parts of this machine, when operating reach 500° F.; the sealant as high as 400° F. and the hydraulic fluid may reach 200° F. Always wear protective clothing, hard sole shoes, and eye protection. Be sure that all joints and fittings are tight and leak proof. Immediately replace any hose, which shows any signs of wear, fraying, or splitting. Tighten all bolts, nuts, and screws every 250 hours.

# MACHINE START UP

## TO START BURNER

1. Fully open the Damper Vent.
2. Start Engine per Engine Manual.
3. Turn toggle switch at control box “ON”.
4. Set hot oil temperature at 500° F and material temperature at manufacturers recommended temperature.



### **CAUTION:**

If burner does not ignite the first time, turn temperature dial to off. Turn temperature dial to desired setting. Burner should ignite. If burner still does not ignite, determine cause of malfunction (see Trouble Shooting Guide).

5. Allow the heating oil to continue to heat. When sealant material reaches a liquid state, engage the mixer by turning the toggle switch “ON”. If the mixer does not move, allow the material to heat longer. Jamming of mixer causes hydraulic oil to overheat and machine damage could occur.
6. Turn “ON” the hose controller when hot oil temperature reaches approximately 300° F. See Operating Instructions. Adjust the temperature dial to 380 degrees. The hose will come up to temperature in approximately 30 minutes. After the hose is hot, the light in the control box marked “hose controller” will turn off and the temperature may be reduced to approximately 360 degrees. It is advisable to run the hose at the lowest temperature setting possible and still have material dispense.

**NOTE!!** The hose must be up to temperature before dispensing can take place.

**IMPORTANT!! DO NOT** twist or kink hose. Avoid sharp bends and continuous twisting. Maintain minimum, 10 inch bend radius. **DO NOT** exceed 400° F. setting on hose controller!! **DO NOT** move or bend hose when cold. Damage may result. **DO NOT** leave hose “ON” for longer than 30 minutes without dispensing material. Coking will occur and permanently damage hose.

**IT IS STRONGLY RECOMMENDED THAT THE HOSE BE STORED IN THE HOSE HANGER WHEN NOT IN USE OR WHEN IN TRANSIT. THIS WILL HELP PREVENT TWISTING OR KINKING.**

7. The heated hose supplied with the machine is Teflon lined with steel over braid. It has a heating element, which runs down the hose to heat the material within the hose. The hose is covered with high temperature, durable rubber hose. The wand has an aluminum tube to protect both the wand and the operator. The pistol grip actuator is equipped with an electric switch which when depressed sends a signal to actuate the pump. At the end of the wand, a high temperature elastomeric output valve is attached. The valve is pressure actuated and opens automatically when fluid pressure is applied. The wand is equipped with a trigger lock to prevent accidental pump actuation when not pumping material. The trigger should be in the “**LOCKED**” position at all times except when intentionally pumping material.

# AIR COMPRESSOR

The air compressor unit installed on the Super Shot 125 is designed to assist in the cleaning of debris from cracks and joints. **ALWAYS** use approved high-pressure air hoses with properly installed fittings. **DO NOT use frayed or worn hoses.** A cold air lance, or approved hot air, or approved hot air lance can be used with this compressor.

For maximum air compressor performance, the engine should be operated at maximum factory set **R.P.M.'s.**

Consult Crafc0, or your hot air lance dealer for the appropriately sized lance used on a 36.8 CFM dual stage 100 psi compressor.

The compressor is operated hydraulically and disengaged when maximum air pressure setting in storage tank is reached. If the compressor is not needed, turn off at toggle switch in control box.



## DISPENSING THE MATERIAL



**NOTE: PROTECTIVE CLOTHING, GLOVES, HARD SOLED SHOES, AND FACE SHIELD OR SAFETY GLASSES SHOULD BE WORN WHEN OPERATING OR FILLING THIS EQUIPMENT. READ ENTIRE MANUAL BEFORE OPERATING.**

The wand is equipped with a disposable duckbill valve on the end, which shuts off the flow of material when the pump is turned off and prevents excessive dripping of material. This valve also directs the material into a stream for easy application into the crack. Other sealing tips are available. See your local distributor for options.

Some difficulty may be encountered when starting up on cold days. Although the wand is designed to heat the material all the way down to the tip, on cold days it may be necessary to place the tip of the wand under the lid to facilitate material melting in the valve. Insert the wand tip for only a short time before proceeding.

When the material and the hose have reached proper application temperature, you are ready to dispense material. Turn the pump speed control to the lowest setting by turning the speed control knob fully counter clockwise. With the wand tip inserted into the top of the melter, depress trigger on the wand and slowly increase pump speed by turning the speed control knob clockwise until the pump motor starts to turn. Material should start to flow from the tip of the duckbill valve. Adjust the pump speed for the desired rate of flow for the application and dispense material as required. The rate of flow may be varied while the pump is running by rotating the control knob.



**NEVER POINT THE WAND AT ANY PART OF THE BODY OR AT ANY OTHER PERSON. HOT MATERIALS CAN CAUSE SEVERE BURNS. WEAR PROTECTIVE EQUIPMENT WHEN FILLING OR OPERATING THE EQUIPMENT. READ MANUAL BEFORE OPERATING EQUIPMENT.**



## LOADING THE MACHINE

When loading solid material into the sealant tank, the mixer will stop when the lid is lifted.

To load, lift the lid, place the material on the lid and close lid. Following this procedure will prevent the hot material from splashing and causing serious burns to personnel.

The solid material must be added at intervals, which will allow the mixer to rotate without jamming. If blocks of material are fed in too quickly, jamming will result and slow down the melting process.

An autoloader option is available; see your local distributor for details.

## SHUTDOWN AND CLEAN-OUT PROCEDURE

When shutting down the machine for the day, there are several schools of thought about how much material to leave in the machine. Crafcro recommends leaving the melter about half full. This will give a fairly rapid heat up rate in the morning, but will allow enough material to start dispensing right away when the material becomes molten.

1. Turn the burner control toggle switch “OFF”.
2. Reverse the pump for approximately 30 seconds.
3. Turn the hose controller to “OFF”.
4. Turn the hose controller toggle switch “OFF”.
5. Store the hose in the hose hanger per transport decal on machine.  
**IMPORTANT!! DO NOT** kink or twist hose, as permanent damage will result.
6. Turn the mixer toggle switch to “OFF”.
7. Shut the engine down by turning the key to the “OFF” position.

## STORING MACHINE

The melter should be stored in an area where moisture cannot enter the machines heating system such as hot oil, controls, etc. Extended down time can cause moisture build up in heating oil tank.

If there is any suspicion that moisture may have collected in heat transfer oil, warm heat transfer fluid to 300° F. for 2 to 3 hours to evaporate the moisture.

# INSTRUCTIONS FOR ORDERING PARTS

Parts may be ordered from your local CRAFTCO distributor or directly from CRAFTCO, Inc. if a distributor is not available in your area. When ordering parts, give the following information:

1. Part Number.
2. Machine Model.
3. Serial Number.

**Write or telephone:**

CRAFTCO, INCORPORATED  
235 SOUTH HIBBERT DRIVE  
MESA, AZ. 85210  
Phone: 480-655-8333  
Toll Free: 1-800-528-8242



## **ELECTRIC HOSE CARE AND CAUTIONS**



Twisting and kinking of the electric hose (used on LF, BAX, SS60, and SS125 Melter) is the number one cause of hose failure.

When this happens, the electric heating wires are shorted out to the metal hose cover and the hose stops heating.

**This type of failure is not covered under the Crafcoc warranty.**

To help prevent twisting and kinking and the resulting hose damage, the operator should:

- a. Do not move or use hose unless it has been turned on a least 35 minutes and set at a minimum temperature of 300° F.
- b. Make sure hose swivel between hose and wand moves freely.
- c. Limit the hose bending to a radius of 10 inches.
- d. Avoid bending the hose over sharp edges such as the edge of the frame or tank.
- e. Avoid twisting.
- f. Do not exceed 400° F. on the hose controller or material temperature.
- g. Follow all instructions of the melter as well as those in the instruction manual.

# HOSE TRANSPORT INSTRUCTIONS

1. Remove hose from jib support and rotate jib support towards front of machine until it locks into position.
2. Wrap hose on hose hanger two complete wraps (Approximately 20 inch diameter).
3. Store wand in support hook.

**CAUTION:** 

Hose damage will occur if:

- a. Hose is bent or moved when cold.
- b. Hose is twisted or bent at less than a 10 inch radius.
- c. Hose is moved prior to being turned on at least 35 minutes and set at 380° F.
- d. Operator crosses over or under hose causing hose to twist or wires between hose and wand connection to twist or wrap up.
- e. Swivel is cold and not free to move allowing hose to twist.
- f. Hose to wand wiring is pulled, stressed, or used to support the wand.

# MAINTENANCE INSTRUCTIONS

## ENGINE

See engine owner manual for operating and maintenance instructions.

## HYDRAULIC SYSTEM

Check hydraulic fluid daily. Change hydraulic filter after first 10 hours of operating and every 250 hours thereafter. Change hydraulic fluid every 500 hours of operation.

## WHEEL BEARINGS

Re-pack wheel bearings every 24,000 miles or every two years, using a good grade of bearing grease.

## TONGUE JACK

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



## MIXER BEARING

Lubricate every 50 hours with good quality, high temperature grease.

		HOURS			
LOCATION	PROCEDURE	8	50	100	500
Engine check oil level	See engine instruction manual.	*			
Other engine maintenance	See engine operating and maintenance instructions.				
Battery	Check water level weekly.		*		
Heat transfer oil	Check	*			
Heat transfer oil	Change				*
Hydraulic oil filter	First change (10 hours)				
Hydraulic oil filter	Subsequent changes (250 hours)				
Hydraulic oil	Check oil	*			
Hydraulic oil	Change oil				*
Hydraulic oil	For proper oil, see recommended fluids & lubricants.				
Burner	Check burner box insulation.				*
	Clean cad cell.				*
	Check electrodes.				*
	Check blower brushes.				*
	Check nozzle pressure.				*
Wheel bearings	Clean & re-pack using a good grade of bearing grease	Every 24,000 miles or every two years.			
Tongue jack	Grease, using good grade of bearing grease.	Once a year.			
Air compressor	See Air Compressor Manual.				

## SERVICE INSTRUCTIONS

1. Conduct a general inspection of your machine at least once a week. Replace all worn or damaged parts, make any necessary adjustments and tighten all loose nuts or screws.
2. Keep regular replacement items in stock for emergency repairs, to avoid costly "down" time.
3. Watch for leaks. Tighten fitting or repair as necessary.
4. Clean machine externally periodically. Check with sealant manufacturer for recommendation.
5. Follow recommended maintenance procedures on maintenance chart.

## RECOMMENDED FLUIDS AND LUBRICANTS

APPLICATION	RECOMMENDED	FULL POINT
Engine oil	Refer to Isuzu owners manual.	6.7 Qts.
Diesel	#1 Cold climate #2 Warm climate	32 Gals.
Hydraulic oil	Rondo Oil - HD - 68 Texaco	32 Gals.
Heat transfer oil	Regal R&O 68	34 Gals.
Air Compressor	Refer to Compressor Manual	

**The following is a list of suitable Heat Transfer Oil to be used in Crafcro equipment.**

PRODUCER	PRODUCT NAME	PRODUCT NUMBER
Texaco	Regal	R&O 68
Exxon	Caloria	HT 43
Arco	Rubilene	--
Citgo	Sentry	R&O 68
Gulf Oil Co.	Security	R&O 68
Shell Oil Co.	Therma	C
Chevron	Chevron Heat Transfer Oil	--
Conoco	Heat Transfer Oil	R&O 68

## TYPICAL SPECIFICATIONS

ISO	68	Viscosity Index	95-100
Flash Point, COC	445° F.	Pour Point	0° F.
Viscosity @ 100° F.-SUS	325	Carbon Residue	1%
Viscosity @ 210° F.-SUS	50		



### **WARNING:**

The Heat Transfer Oil in this machine is a grade that has been tested and recommended by CrafcO, Inc. The addition of any grade of oil not specifically recommended by CrafcO, Inc., shall be cause for warranties to be voided.

All oils subjected to high temperatures deteriorate with time and lose many of their characteristics. Tests conducted by CrafcO, Inc. have determined that for best results and safety, the Heat Transfer Oil in this machine must be drained and replaced with CrafcO, Inc. recommended oil after five hundred (500) hours of operation or one (1) year, whichever occurs first.

# SUPER SHOT PUMP REPLACEMENT

## **Step 1**

Bring melter up to temperature as preparation for draining the material tank. Remove pipe cap located at rear of machine and drain tank (**CAUTION!! EXTREMELY HOT MATERIAL**).



## **Step 2**

Remove both guards from the motor mount to access the chain and sprockets.

## **Step 3**

Rotate agitator until connecting link is accessible. Disassemble the connecting link and remove the drive chain.

## **Step 4**

Loosen set screw in the lower coupling half between the hydraulic motor and the drive shaft.

## **Step 5**

Remove the (4) hydraulic hoses and cap off all ports. Note: Mark hoses for ease of replacement.

## **Step 6**

Remove the (4) bolts holding motor mount on top of melter. Lift off motor mounting and set aside.

## **Step 7**

Remove (2) bolts holding agitator shaft bearing. Note: Do not remove bearing from agitator shaft.

## **Step 8**

When unit has cooled sufficiently, remove (6) bolts holding paddles on top of screen. Remove paddles from tank.

## **Step 9**

Remove pump drive shaft from center of agitator shaft then lift agitator shaft and screen assembly as high as possible and insert screw driver into shaft hole. This will support the assembly while removing the pump from the tank.

## **Step 10**

Remove the (6) bolts, which fasten the pump to the tank. Lift the pump from the material tank (**CAUTION!! THE PUMP WEIGHS APPROXIMATELY 90LBS.**)

## **Disassembly of Material Pump**

### **Step 11**

Remove the (2) bolts, which hold the pump plates together. Disassemble the (3) plates from each other (**NOTE:** as pump is being disassembled make note of the orientation of holes in each plate).

### **Step 12**

Clean all pump parts thoroughly before beginning to reassemble the pump.

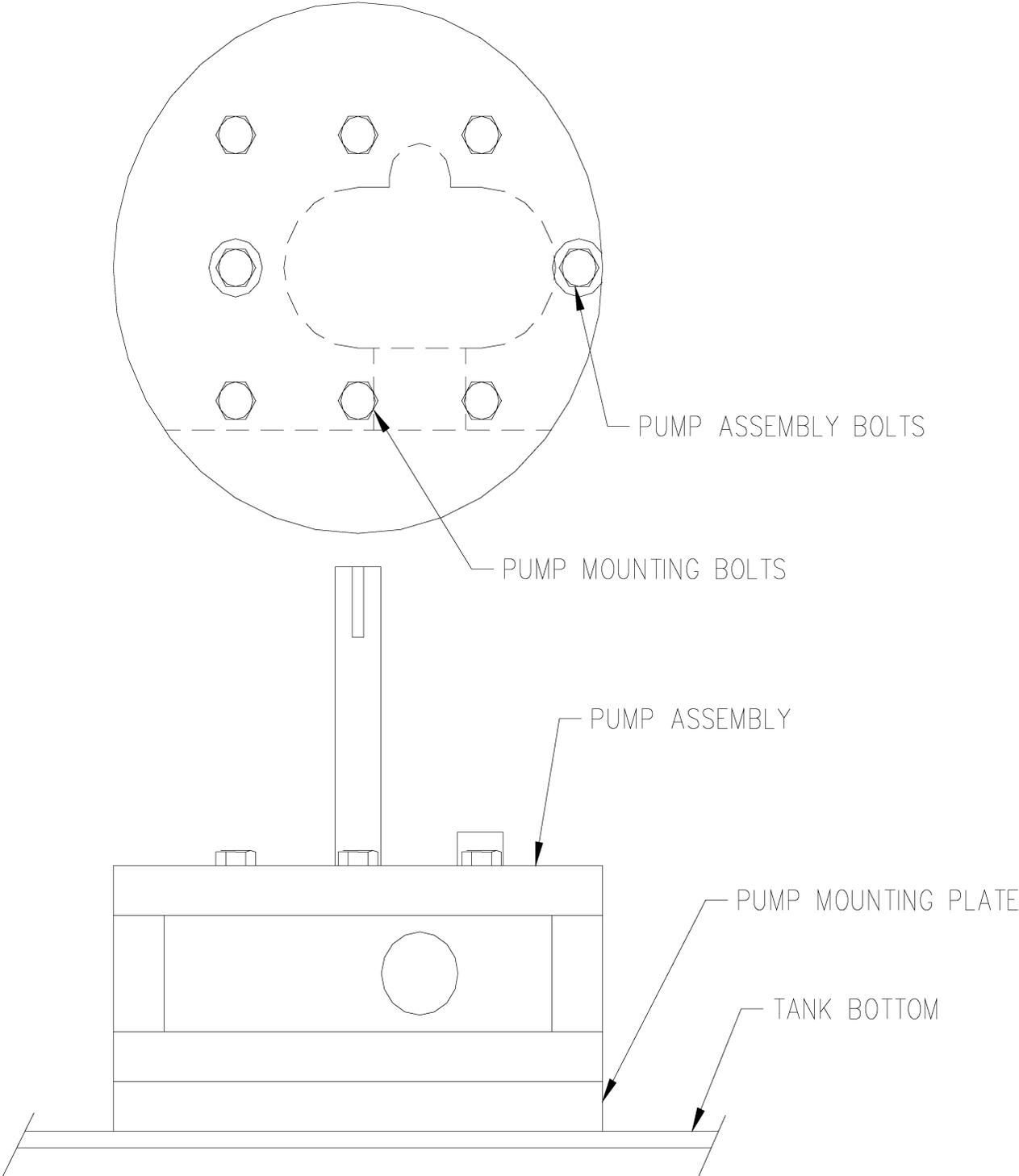
### **Step 13**

Assemble the pump, check for free movement of the pump gears. If gears do not turn freely, loosen bolts slightly and align plates until the gears turn freely. Torque all the bolts to 35 ft. lbs.

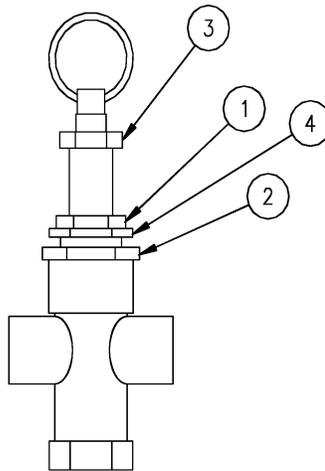
### **Step 14**

Install all parts in machine starting at: **Step 10** and working backward to **Step 1**.

# SUPER SHOT PUMP REPLACEMENT

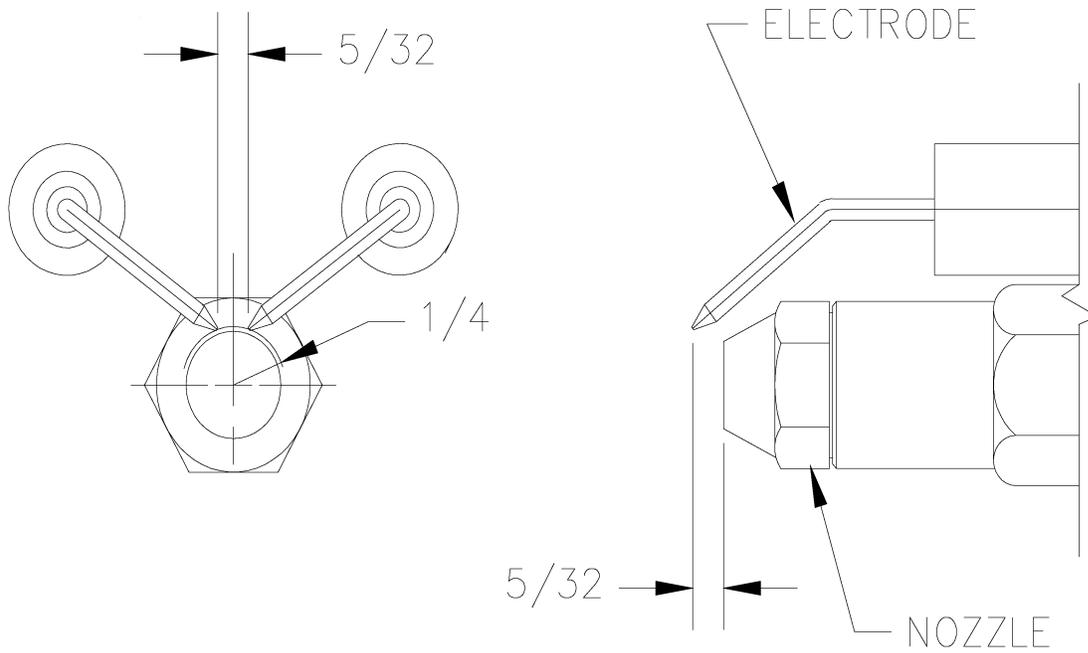


# UNLOADER ADJUSTMENT INSTRUCTIONS



1. Remove safety valve from the fitting on tank and install a pressure gauge.
2. Loosen jam nuts #1 and #2.
3. The unloading pressure can be adjusted by screw #3, turn clockwise to increase pressure and counterclockwise to decrease pressure.
4. The differential pressure (difference between cut-in and cut-out pressure) is obtained by adjusting screw #4. Turning clockwise will widen the differential pressure and counterclockwise will narrow the differential pressure.
5. Repeat items #2 and #3 until the unload pressure is set at 100 PSI, and the differential pressure is set at 80-85 PSI.
6. After adjustments are made, tighten jam nuts #1 and #2.

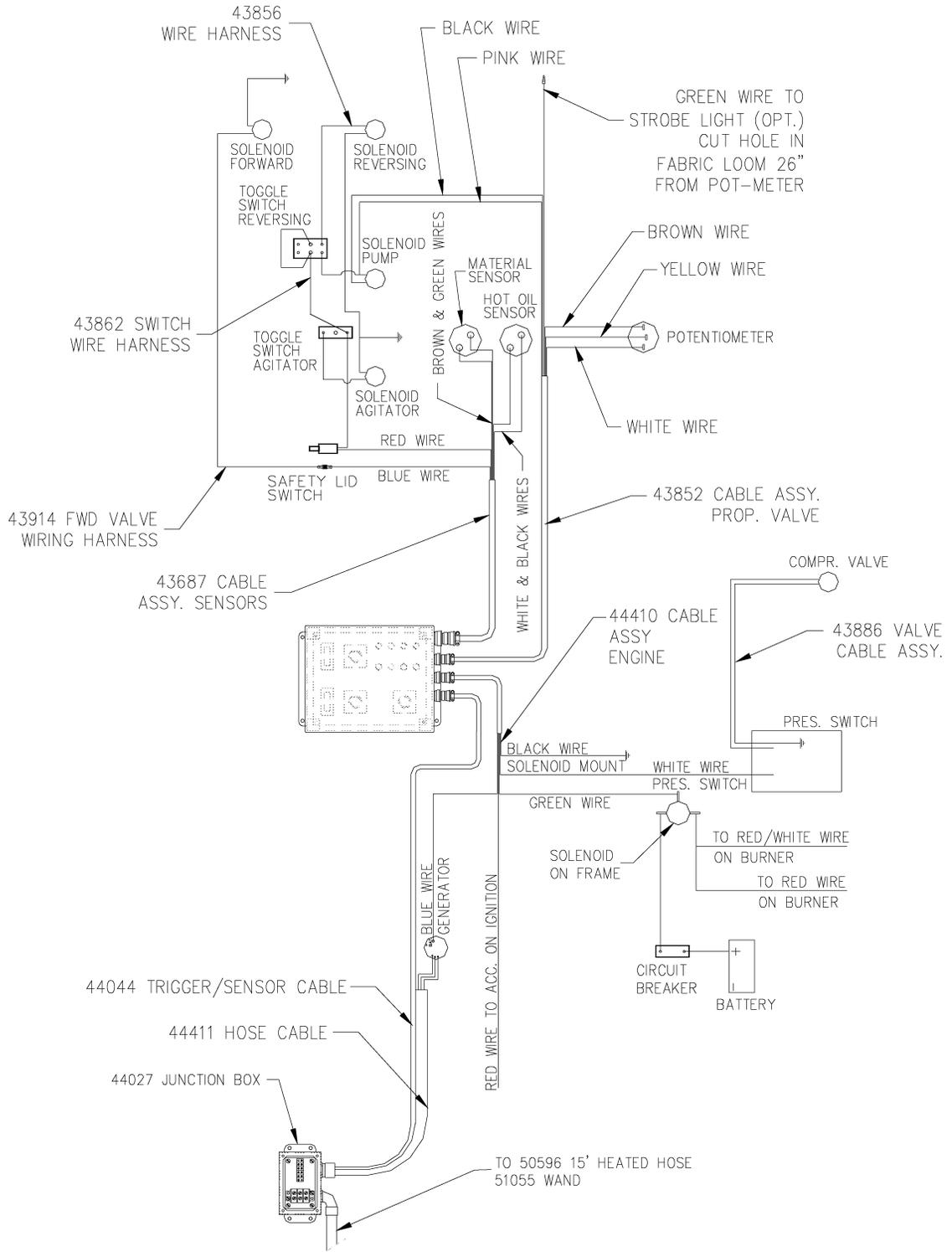
## DIESEL BURNER ELECTRODE ADJUSTMENTS



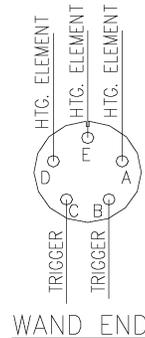
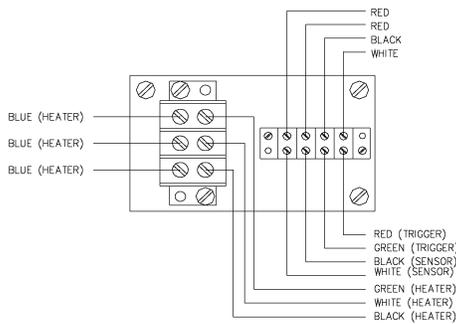
## DIESEL BURNER SETTINGS

Air Shutter = 7  
Air Band = 0  
Fuel Pressure = 140 PSI  
Adjustment Plate = 3

# ELECTRICAL SCHEMATIC-SS125 DCRC-PART NUMBER 44412



# TROUBLE SHOOTING GUIDE



## HOSE DOES NOT HEAT

**Step 1:** Is the "HEATED HOSE" switch "ON"?

**YES:** Go to step 2

**NO:** Turn switch "ON".

**Step 2:** Is "HEATED HOSE" light illuminated?

**YES:** Go to step 3

**NO:** Check for blown fuse in front panel.

**YES:** Replace fuse.

**NO:** Remove front panel and check for 12 volts at purple wire on hose switch.

**YES:** Go to step 2a.

**NO:** Check for 12 volts at fuse in front panel.

**Step 2a:** Check for 12 volts at #3 terminal (purple wire) on Pak-Stat.

**YES:** Go to step 2b.

**NO:** Check wire connections or replace switch.

**Step 2b:** Check for 12 volts at #7 terminal (blue wire) when Pak-Stat is on.

**YES:** Go to step 3

**NO:** Replace Pak-Stat.

**YES:** Check wire connections (red wire) between fuse and switch

**NO:** Check wire connections between "ACC" terminal on ignition switch and "A" terminal on the second plug from the left.

**Step 3:** Check for 12 volts at "BATT" terminal on generator.

**YES:** Go to step 4

**NO:** Check wire connections between "D" (blue wire) at control box to generator.

**Step 4:** Check for 24 volts AC at the "BLACK", "WHITE" and "GREEN" wires on the generator.

**YES:** Go to step 5.

**NO:** Replace generator.

**Step 5:** Check for 1.08K (1080) OHMS resistance of the hose sensor (black and white wire) at the junction box. (**NOTE: One of the sensor wires must be disconnected to check resistance**)

**YES:** Go to step 6

**NO:** Send hose to your Crafcro distributor for repair.

**Step 6:** Check for continuity between three heating element wires (blue) in junction box.

(**NOTE: Wires must be disconnected from terminal block**)

**YES:** Go to step 7

**NO:** Check wire connections between hose and wand.

**Step 7:** Check for continuity between element wires (blue) and the fitting of the hose.

**YES:** Replace hose.

**NO:** Hose is OK.

# TROUBLE SHOOTING GUIDE

## MATERIAL DOES NOT DISPENSE WHEN PUMP IS ACTIVATED

**Step 1:** Is the motor coupling turning?

**YES:** Go to step 2

**NO:** Has the sealant had sufficient time to completely melt?

**YES:** Go to step 2

**NO:** Has the hose had sufficient time to reach operating temperature?

**YES:** Go to step 2

**NO:** Allow hose to heat up to operating temperature.

**Step 2:** Is the "HEATED HOSE" switch "ON"?

**YES:** Go to step 3.

**NO:** Turn switch "ON".

**Step 3:** Is the "HEATED HOSE" light "ON"?

**YES:** Go to step 4.

**NO:** Check for blown fuse on front panel. (If display is operating, fuse is ok)

**YES:** Replace fuse (**15 amp only**).

**NO:** Check for blown fuse inside control box.

**YES:** Replace fuse (**5 amp only**).

**NO:** Press white test button on relay, pump will turn.

**YES:** Go to step 8.

**NO:** Check for 12 volts at terminals #12 and terminal #14 (purple wire) of the relay. (**NOTE: Terminal #12 will have 12 volts when hose is turned "ON". Terminal #14 will have 12 volts when trigger is activated.**)

**YES:** Go to step 6.

**NO:** Check all wire connections.

**Step 4:** Is the center and top right lights on hydraulic valve illuminated (looking from rear of machine) when trigger is activated?

**YES:** Replace hydraulic cartridge.

**NO:** Disconnect wand and check continuity between "C" and "B" on wand when trigger is activated.

**YES:** Go to step 5

**NO:** Replace switch or check for poor wire connection.

**Step 5:** Then reassemble plug and check continuity at the two red wires in junction box.

**YES:** Go to step 8.

**NO:** Check all wire connections between junction box and wand.

**Step 6:** Check for 12 volts at terminals #8 (purple wire) and #5 (purple wire) of the relay.

**YES:** Go to step 7

**NO:** Replace the relay

**Step 7:** Check for 12 volts at the "POWER" terminal on the driver card.

**YES:** Go to step 8

**NO:** Check purple wire between relay and driver card

**Step 8:** Check the "MIN" on the driver card. This is done by taking the voltage between "COIL+" and "COIL-" when potentiometer is turned to the lowest setting. The voltage should be 3.5 volts.

If not, set "MIN" on the driver card by turning the screw counter clockwise to lower the voltage and clockwise to increase the voltage.

**Step 9:** Check "MAX" on the driver card. This is done by taking the voltage between "COIL+" and "COIL-" when potentiometer is turned to the highest setting. The voltage should be 9.5-10.0 volts. If not, set "MAX" on the driver card by turning the screw counter clockwise to lower the voltage and clockwise to increase the voltage.

# **TROUBLE SHOOTING GUIDE**

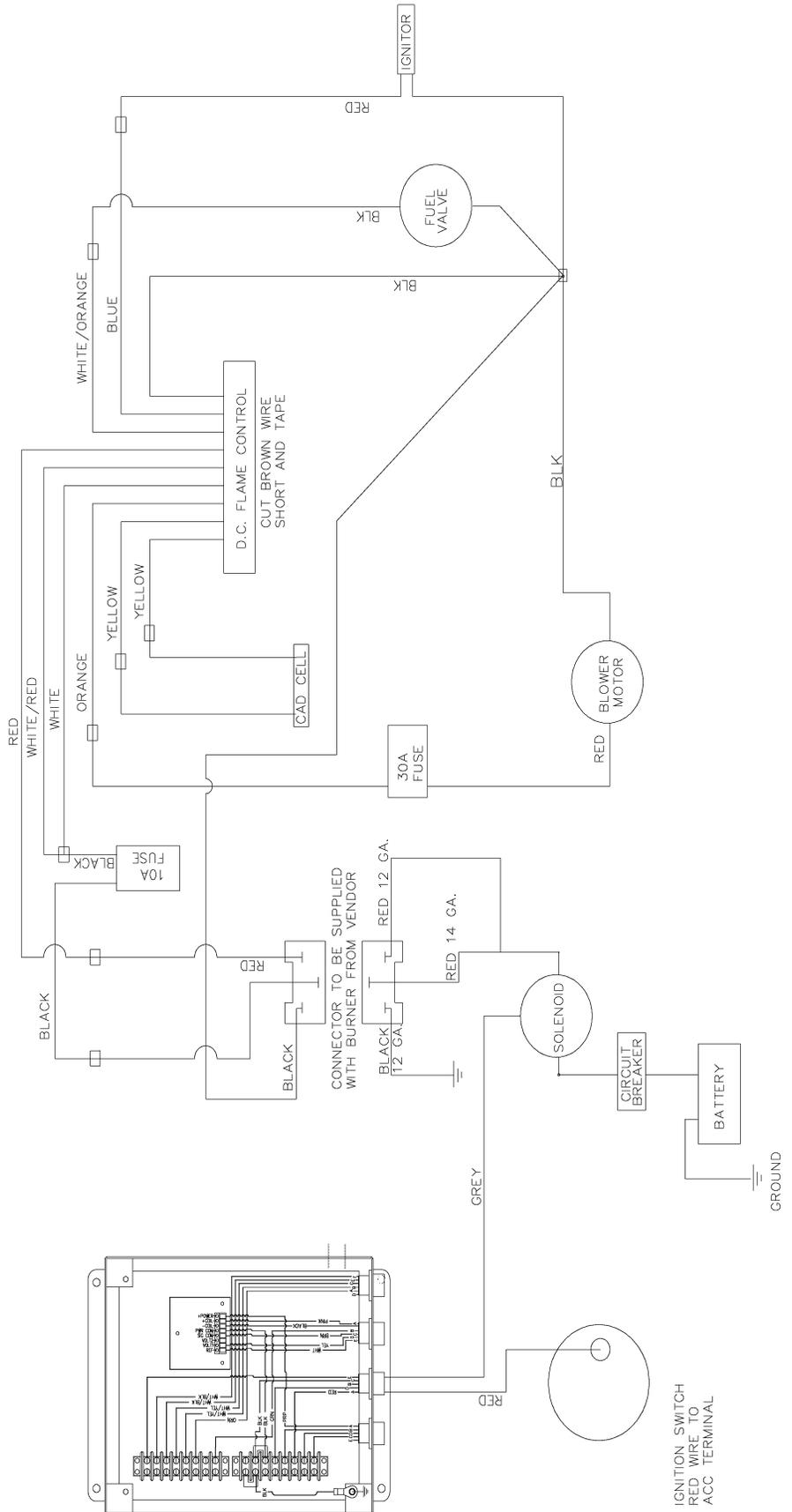
## **PUMP ROTATES BUT NO MATERIAL IS DISCHARGED**

- Step 1:** Has the sealant had sufficient time to completely melt?  
**YES:** Go to step 2.  
**NO:** Allow the sealant to melt longer.
- Step 2:** The heated hose is not up to temperature.  
**YES:** Go to step 3.  
**NO:** Allow heated hose to heat longer.
- Step 3:** Check material outlet pipe and connection between hose and wand for obstruction.  
**YES:** Remove obstruction and reassemble hose connection.  
**NO:** Go to step 4.
- Step 4:** Is there an obstruction at the pump suction?  
**YES:** Reverse material pump for 30 seconds.  
**NO:** Refer to page 14 for pump removal.

## **MATERIAL DISPENSING RATE IS TO SLOW**

- Step 1:** Check speed control knob (potentiometer) for desired flow adjustment.  
**YES:** Go to step 2.  
**NO:** Adjust to desired flow.
- Step 2:** Check driver card for proper adjustment.  
**YES:** Go to step 3.  
**NO:** See page 17 step #8 and #9.
- Step 3:** Is there enough material in the tank?  
**YES:** Go to step 4.  
**NO:** Add enough material to bring tank level above the screen.
- Step 4:** Check material outlet pipe and connection between hose and wand for obstruction.  
**YES:** Remove obstruction and reassemble hose connection.  
**NO:** Pump is worn out (See page 14 for pump removal and installation).

# SS125 BURNER SCHEMATIC-PART NUMBER-26552P



# BURNER TROUBLE SHOOTING

## **BURNER WILL NOT IGNITE**

**Step 1:** Check for 12 volts at burner toggle switch.

**No:** Engine key "OFF"  
Toggle switch "OFF"  
Blown fuse  
Broken wire



**YES:** 12 volts at terminal #7 on "material" thermostat

**NO:** Bad thermostat  
Faulty sensor

**YES:** Check for 12 volts at terminal #7 on "OIL" thermostat

**NO:** Bad thermostat  
Faulty sensor

**YES:** Check for 12 volts at solenoid (frame) terminal to burner

**NO:** Bad solenoid  
Bad connection at battery  
Faulty circuit breaker  
Broken or loose wire

**YES:** Faulty DC Controller, poor ground / loose wire  
Faulty or dirty flame  
Faulty igniter transformer, cracked electrode (ceramic)  
Incorrect igniter gap  
Faulty fuel solenoid  
Bleed fuel pump / check fuel pump coupling  
Fuse under DC Controller  
Blower motor relay  
Faulty blower motor  
Alternator charging @ 14 volts  
Faulty 12 volt battery

## **BURNER LIGHTS BUT SHUTS DOWN AFTER 15 SEC.**

Faulty flame eye  
Broken, loose flame eye sensor wires, receptacle  
Faulty DC Controller

## **BURNER LIGHTS BUT WILL NOT RELIGHT**

Bad connection at battery  
Broken or loose wires  
Faulty DC Controller  
Alternator charging at 14 volts  
Faulty 12 volt battery

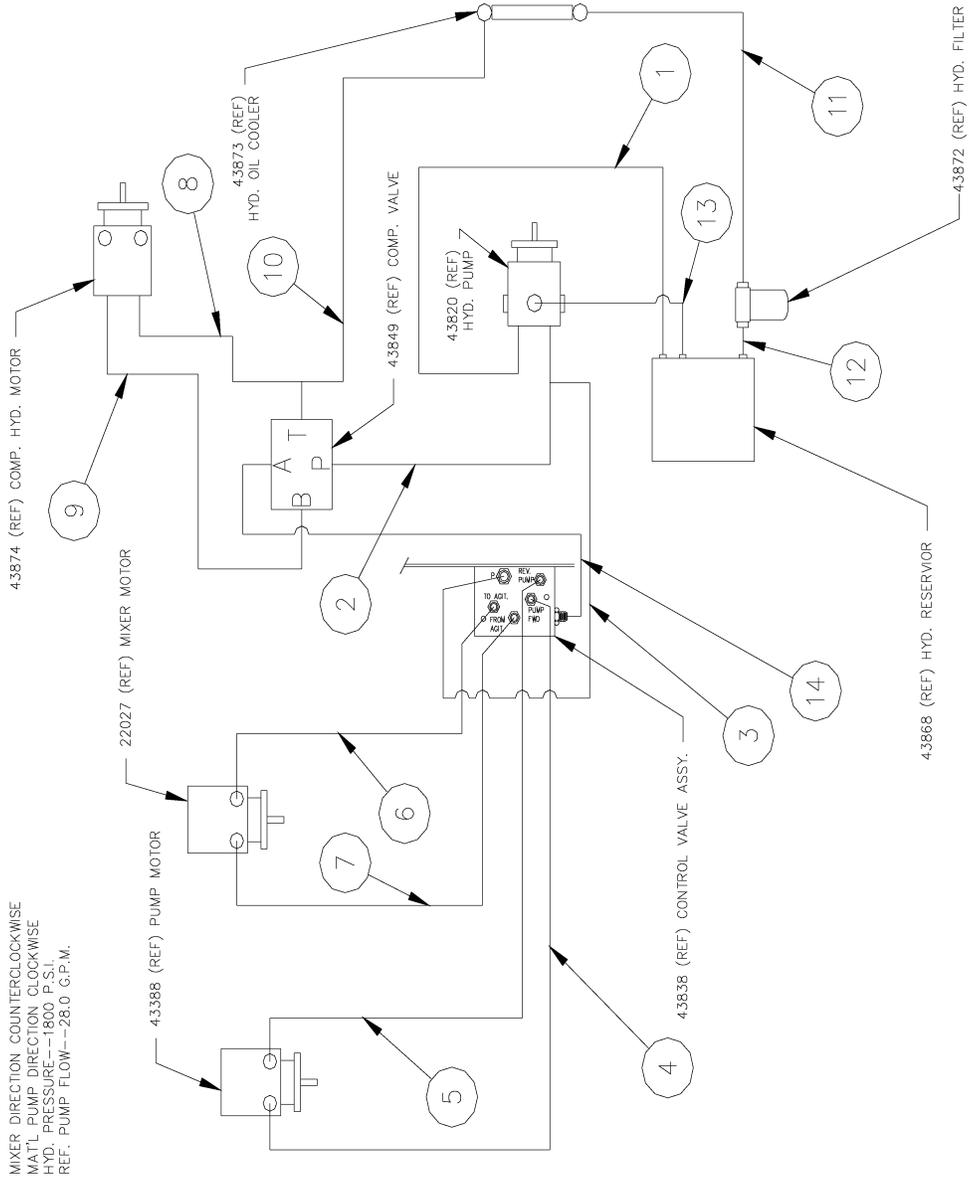
## **EXCESSIVE SMOKE FROM BURNER EXHAUST**

Air vent incorrectly set - set at 7  
Blower motor not turning at correct speed  
Alternator charging at 14 volts  
Faulty 12 volt battery

## TROUBLE SHOOTING HYDRAULICS

PROBLEM	CAUSE	REMEDY
Mixer will not rotate	Sealant temperature too low.	Continue to heat material.
Mixer will not rotate	Too many blocks placed at one time.	Continue to heat material.
Mixer will not rotate	Inadequate hydraulic flow/pressure	Check hydraulic fluid level.
Mixer will not rotate	Toggle switch turned off.	Reset pressure, check flow if necessary.
Material pump will not rotate.	Material in tank not to operating temperature.	Continue heating material.
Material pump will not rotate.	Inadequate hydraulic flow/pressure.	Check hydraulic fluid level. Reset pressure, check flow as necessary.
Material pump will not rotate	Material pump damaged.	Remove and replace.
Material pump will not rotate	Foreign object lodged in pump.	Remove pump, clean & replace.
Material pump will not rotate	Temperature at wand tip is inadequate.	Set wand tip inside material tank.
Material pump will not rotate	Bad switch at wand.	Remove and replace.
Material pump will not rotate	Hydraulic cartridge failure.	Remove and replace.
Material pump will not rotate	Hydraulic coil failure.	Remove and replace.
Material pump will not rotate	Less than 10.5 x @ driver card.	Charge or replace battery.
Material pump will not rotate	Driver card not set properly	Set min. and max. voltage
When applying sealant it stops flowing from applicator wand.	Tank fluid level too low for material to flow into pump.	Add more material or continue heating material until more liquid material is available.
Pump rotates, but will not pump material.	Material cold, inlet still solid. Hose not to temperature. Temperature at wand tip is inadequate.	Continue to heat material. Allow to heat longer. Set wand tip inside material tank.
Pump does not rotate.	Bad wire connection. Bad switch at wand handle. Hydraulic cartridge failure. Hydraulic coil failure.	Find bad repair. Remove and replace. Remove and replace. Remove and replace.
Slow heat up of sealant	Built up of coked material on inside of material tank. Burner not operating/low LPG pressure. Low heating oil level. Low heating oil temperature.	Allow machine to cool. Remove deposits and flush with solvent. Repair/Adjust Make sure fluid level is correct. Set at recommended temperature.

# HYDRAULIC DIAGRAM SS125DCRC-PART NUMBER 26692



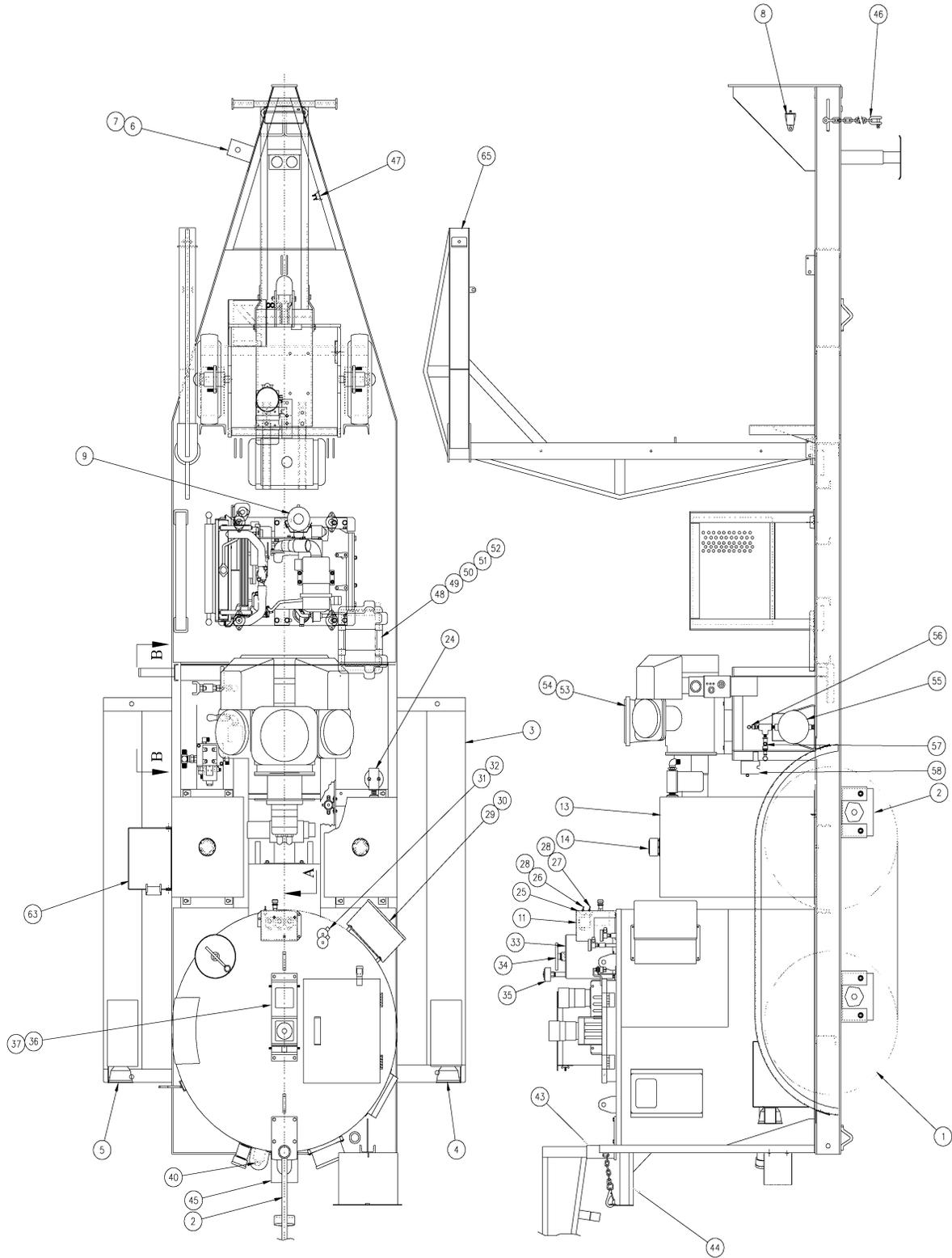
**HYDRAULIC DIAGRAM SS125DCRC-PART NUMBER 26692**

<b>1. HYDRAULIC RESERVOIR TO HYDRAULIC PUMP (SUCTION)</b>		
1	29930	1 1/2 NPT X 1 1/4 TUBE ADAPTOR
1	C20-20FJ-20FJ9-42	HYD. HOSE ASSY., 1-1/4 X 42"
1	29885	1 1/4 TUBE X 1 1/4 O-RING ADAPTOR
<b>2. HYDRAULIC PUMP PRESSURE TO COMPRESSOR "P"</b>		
1	29920	3/4 NPT X 1 O-RING ADAPTOR
1	29964	3/4 MALE RUN TEE
1	AX12-10FJ-12FJ9-71	HYD. HOSE ASSY., 3/4 X 71"
1	29812	5/8 TUBE X 5/8 O-RING ADAPTOR
1	51329	MALE BRANCH TEE 3/4 TUBE X 3/4 NPT
<b>3. HYDRAULIC PUMP PRESSURE PORT TO HYDRAULIC VALVE "P" PORT</b>		
1	29920	3/4 NPT X 1 O-RING ADAPTOR
1	29964	3/4 MALE RUN TEE
1	AX8-8FJ9L-12FJ9L-90-104	HYD. HOSE ASSY., 1/2 X 104"
1	29897	1/2 TUBE X 1/2 O-RING ADAPTOR
<b>4. HYDRAULIC VALVE "PMP FWD" TO MATERIAL PUMP MOTOR</b>		
1	40311	3/8 TUBE X 3/8 O-RING ADAPTOR
1	AX6-6FJ9-180-24	HYD. HOSE ASSY., 3/8 X 24"
1	22029	3/8 TUBE X 5/8 O-RING ADAPTOR
<b>5. MATERIAL PUMP MOTOR TO HYDRAULIC VALVE "PMP REV"</b>		
1	22029	3/8 TUBE X 5/8 O-RING ADAPTOR
1	AX6-6FJ9L-8FJ9L-180-27	HYD HOSE ASSY., 3/8 X 27"
1	29919	1/2 TUBE X 3/8 O-RING ADAPTOR
<b>6. HYDRAULIC VALVE "TO AGIT" PORT TO MIXER MOTOR</b>		
1	40311	3/8 TUBE X 3/8 O-RING ADAPTOR
1	AX6-6FJ-6FJ9L-20	HYD. HOSE ASSY., 3/8 X 20"
1	22029	3/8 TUBE X 5/8 O-RING ADAPTOR
<b>7. MIXER MOTOR TO HYDRAULIC VALVE "FROM AGIT" PORT</b>		
1	22029	3/8 TUBE X 5/8 O-RING ADAPTOR
1	AX6-6FJ9-8FJ-16	HYD HOSE ASSY., 3/8 X 16"
1	29919	1/2 TUBE X 3/8 O-RING ADAPTOR

**HYDRAULIC DIAGRAM SS125DCRC-PART NUMBER 26692**

<b>8. COMPRESSOR HYDRAULIC MOTOR TO COMPRESSOR VALVE "T" PORT</b>		
1	29916	3/4 TUBE X 3/4 O-RING ELBOW
1	AX12-12FJ-12FJ9L-42	HYD. HOSE ASSY., 3/4 X 42"
1	29970	3/4 SWIVEL NUT BRANCH TEE
1	22028	3/4 TUBE X 5/8 O-RING ADAPTOR
<b>9. COMPRESSOR VALVE "B" PORT TO COMPRESSOR HYDRAULIC MOTOR</b>		
1	29862	5/8 TUBE X 5/8 O-RING ELBOW
1	AX10-10FJ-10FJ9-32	HYD. HOSE ASSY., 5/8 X 32"
1	29842	5/8 TUBE X 3/4 O-RING ADAPTOR
<b>10. COMPRESSOR VALVE "T" PORT TO OIL COOLER ROAD SIDE</b>		
1	22028	3/4 TUBE X 5/8 O-RING ADAPTOR
1	29970	3/4 SWIVEL NUT BRANCH TEE
1	AX12-12FJ-12FJ-28	HYD. HOSE ASSY., 3/4 X 28"
1	29916	3/4 TUBE X 3/4 O-RING ELBOW
<b>11. OIL COOLER CURB SIDE TO HYD. FILTER</b>		
1	29916	3/4 TUBE X 3/4 O-RING ELBOW
1	AX12-12FJ-12FJ-89	HYD. HOSE ASSY., 3/4 X 89"
1	29878	3/4 TUBE X 3/4 NPT ELBOW
1	28351	1 NPT X 3/4 NPT REDUCING BUSHING
<b>12. HYDRAULIC FILTER TO HYDRAULIC RESERVIOR</b>		
1	28005	1 NPT CLOSE NIPPLE
<b>13. HYDRAULIC PUMP CASE DRAIN TO HYDRAULIC RESERVIOR</b>		
1	29848	3/8 TUBE X 3/8 O-RING ELBOW
1	AX6-6FJ-8FJ-56	HYD. HOSE ASSY., 3/8 X 56"
1	29845	1/2 TUBE X 1/2 NPT ELBOW
<b>14. HYDRAULIC VALVE "T" PORT TO COMP. VALVE "A" PORT</b>		
1	29869	3/8 TUBE X 1/2 O-RING ELBOW
1	AX8-6FJ-8FJ-60	HYD. HOSE ASSY., 1/2 X 60"
1	29868	1/2 TUBE X 5/8 O-RING ELBOW

# SS 125 DCRC-W/ROUTER-PART NUMBER-44400



**SS 125 DCRC-W/ROUTER-PART NUMBER-44400**

<b>NUMBER</b>	<b>PART NUMBER</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
1	41743	4	TIRE AND WHEEL ASSEMBLY
2	43616	2	TORSIONAL AXLE ASSEMBLY
3	41170	2	FENDER ASSEMBLY - L.H.
4	24022	1	TAIL LIGHT - R.H.
5	24023	1	TAIL LIGHT - L.H.
6	23082	1	TONGUE JACK
7	23095	1	SWIVEL BUSHING- TONGUE JACK
8	23117	1	BREAKAWAY SWITCH
9	43848	1	ENGINE ASSEMBLY
10	29399	4	ISOMOUNT
11	43841	1	COVER - CONTROL VALVE
12	39602	1	SOLENOID
13	43595	1	HYDRAULIC TANK ASSEMBLY
14	43424	1	FILLER / BREATHER WITH DIPSTICK
15	43812	1	FUEL TANK ASSEMBLY
16	43425	1	FILLER / BREATHER - FUEL TANK
17	29398	1	FUEL LEVEL GAUGE (OPTIONAL)
18	41891	1	14 VOLT BURNER
19	41883	1	NOZZLE - BURNER
20	41893	1	BURNER COVER
21	41886	1	TRANSFORMER
22	41890	1	BLOWER MOTOR
23	41888	1	FUEL SOLENOID
24	43870	1	HYDRAULIC FILTER ASSEMBLY
25	43818	1	BRACKET - CONTROL VALVE

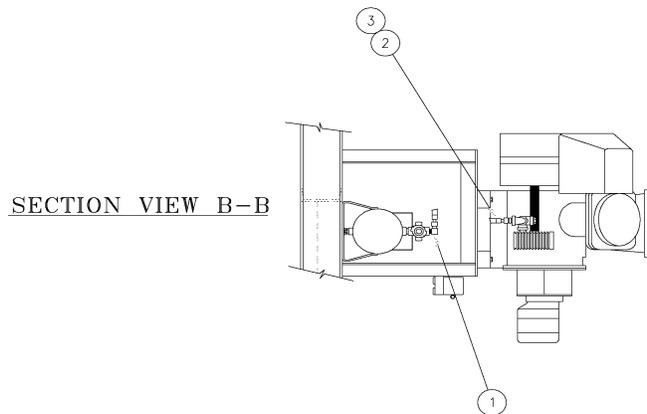
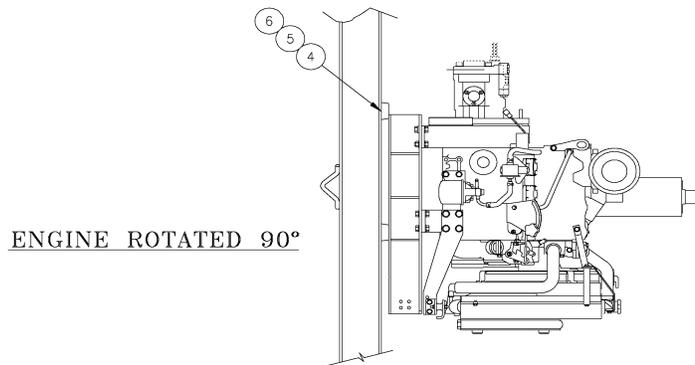
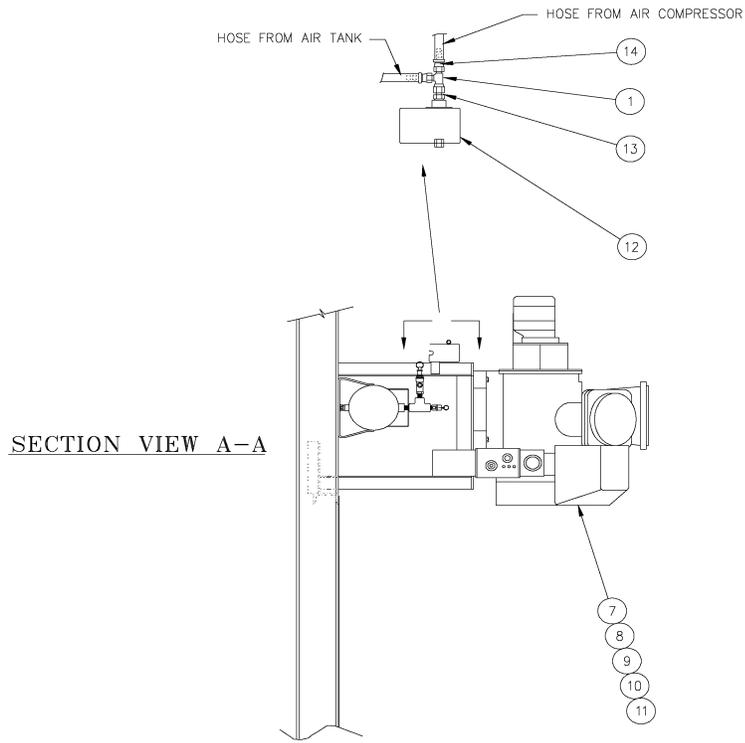
**SS 125 DCRC-W/ROUTER-PART NUMBER-44400**

<b>NUMBER</b>	<b>PART NUMBER</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
26	32513	1	TOGGLE SWITH - PUMP REVERSE
27	50719	1	TOGGLE SWITCH - AGITATOR
28	50720	2	BOOT - SWITCH
29	43669	1	CONTROL BOX ASSEMBLY
30	50074	4	SPACER - CONTROL BOX
31	43465	2	SENSOR
32	51065	2	CORD GRIP
33	43355	1	OVERFLOW TANK
34	43673	1	DIPSTICK
35	26025	1	AIR BREATHER
36	43427	1	PUMP / AGITATOR MOTOR ASSEMBLY
37	43307	2	CHAIN GUARD ASSEMBLY
38	24095	1	STROBE LIGHT (OPTIONAL)
39	43672	1	MOUNTING BRACKET - STROBE LIGHT
40	42796	1	COVER - POTENTIOMETER
41	43845	1	POTENTIOMETER
42	43828	1	BOOM
43	43836	1	BOOM BASE
44	43827	1	HOSE HANGER ASSEMBLY
45	43812	1	HEAT GUARD
46	20130	2	SAFETY CHAIN
47	31512	1	CIRCUIT BREAKER
48	24000	1	BATTERY
49	24002	1	BATTERY BOX
50	27174	1	BATTERY CABLE - (-) 27"

**SS 125 DCRC-W/ROUTER-PART NUMBER-44400**

<b>NUMBER</b>	<b>PART NUMBER</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
51	24015	1	BATTERY CABLE - (+) 38"
52	37038	1	BATTERY CABLE - GROUND
53	43879	1	AIR COMPRESSOR ASSEMBLY
54	43876	4	ISOLATION PAD
55	42624	1	AIR TANK
56	42629	1	SAFETY VALVE
57	42628	1	UNLOADER VALVE
58	42621	1	PRESSURE CONTROL VALVE
59	29214	1	1/2" BALL VALVE
60	42603	1	WATER SEPARATOR
61	42702	1	1/2" SWIVEL ADAPTER
62	42643	1	1/2" AIR HOSE FITTING
63	43842	1	DRIP PAN
64	43849	1	HYDRAULIC VALVE - COMPRESSOR
65	44450	1	PIVOTAL CRANE ASSEMBLY

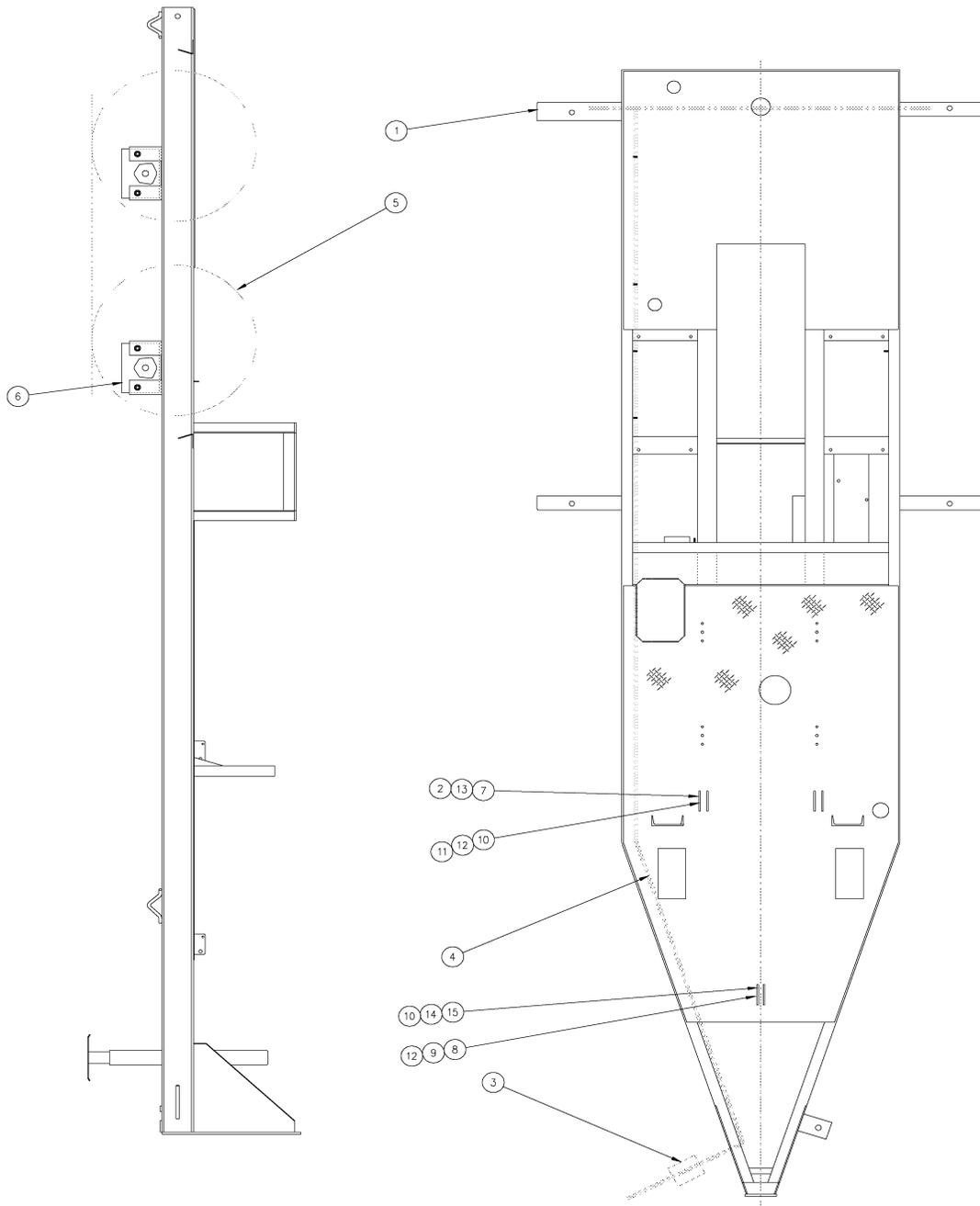
# SS 125 DCRC-W/ROUTER-PART NUMBER-44400-1



**SS 125 DCRC-W/ROUTER-PART NUMBER-44400-1**

<b>ITEM</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	29845	1	ELBOW ADAPTOR
2	29844	1	STRAIGHT ADAPTOR
3	41404	1	BRAIDED HOSE
4	28737	4	3/8-16 X 3 BOLT
5	28672	4	3/8 SAE WASHER
6	28674	4	1/2 SAE WASHER
7	43879	1	AIR COMPRESSOR ASSY.
8	43876	4	ISOLATION PAD
9	28736	4	3/8-16 X 2 1/2 BOLT
10	28672	8	3/8 FLAT WASHER
11	28526	4	3/8-16 ESNA L'NUT
12	42621	1	PRESSURE CONTROL BOX
13	29836	1	ADAPTOR
14	26761	2	FEMALE FITTING #4 HOSE
15	29864	1	1/4" SWIVEL TEE

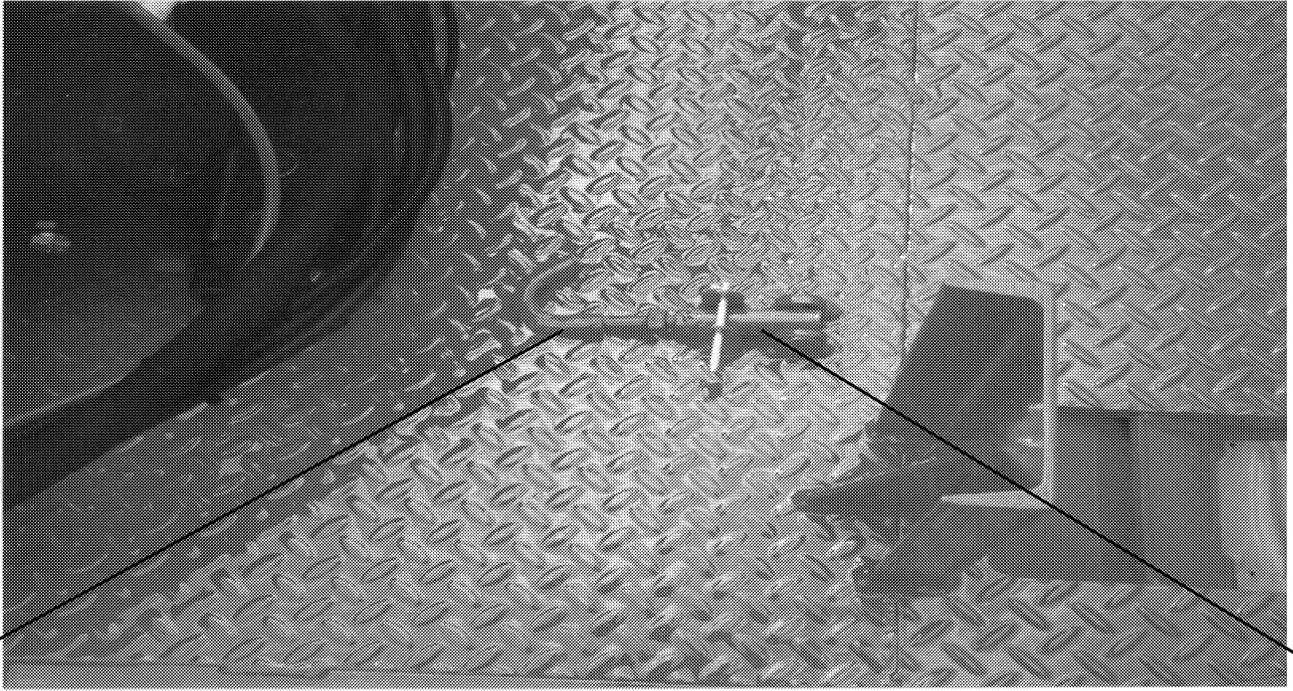
# FRAME ASSY-SS125 DCRC-PART NUMBER 44405



**FRAME ASSY-SS125 DCRC-PART NUMBER 44405**

<b>ITEM</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	43860	2	REAR FENDER SUPPORT R.H.
2	44438	4	ROUTER TIE DOWN BRKT
3	24007	1	4' TRUNK CONNECTOR
4	24008	1	25' WISHBONE TRLR. HARN.
5	41743	4	TIRE AND WHEEL ASSY.
6	43616	2	TORSIONAL AXLE
7	44443	2	TIE DOWN PIN FRT SIDE
8	44437	2	RTR HDL SIDE TIE DWN MTG BRK
9	44442	1	TIE DOWN HDL SIDE PIN
10	29638	3	3/32 X 1-1/4" COTTER PIN
11	44443	2	TIE DOWN PIN FRT SIDE
12	26104	3	QUICK PIN
13	44456	2	FRT PIVOT HOOK TUBE ASSY
14	44458	1	10" TURNBUCKLE-GALVANIZED EYEHOOK
15	44457	1	1/2" X 6" J-BOLT-ZINC

FRAME ASSY-SS125 DCRC-PART NUMBER 44405



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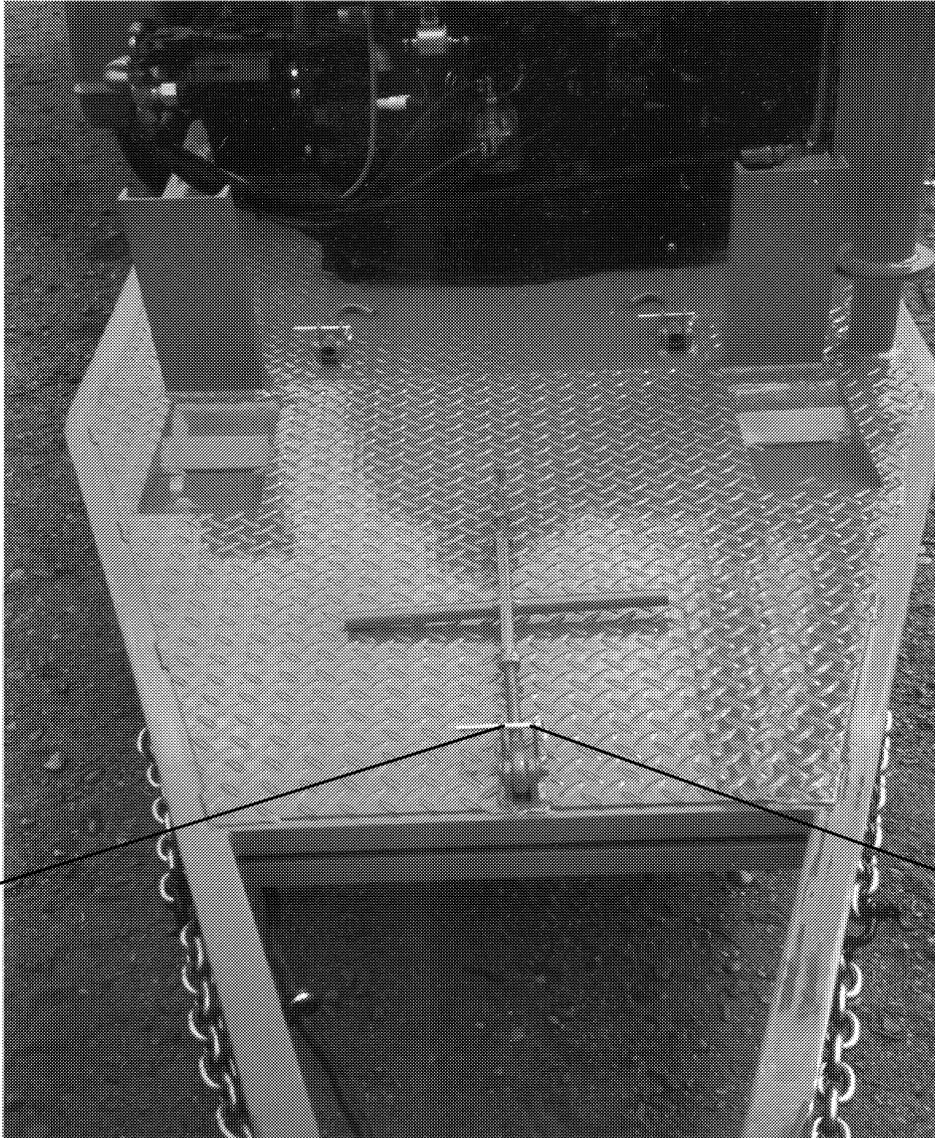
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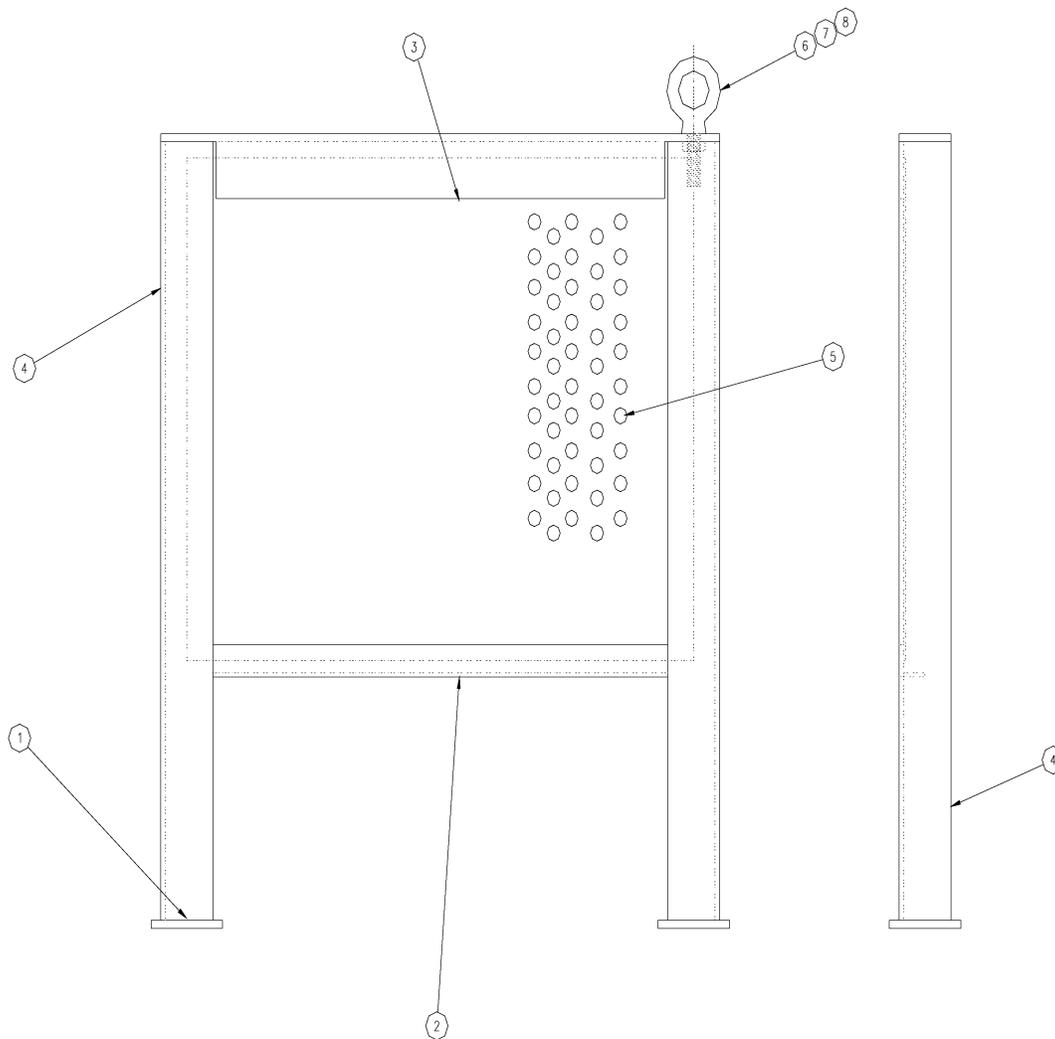
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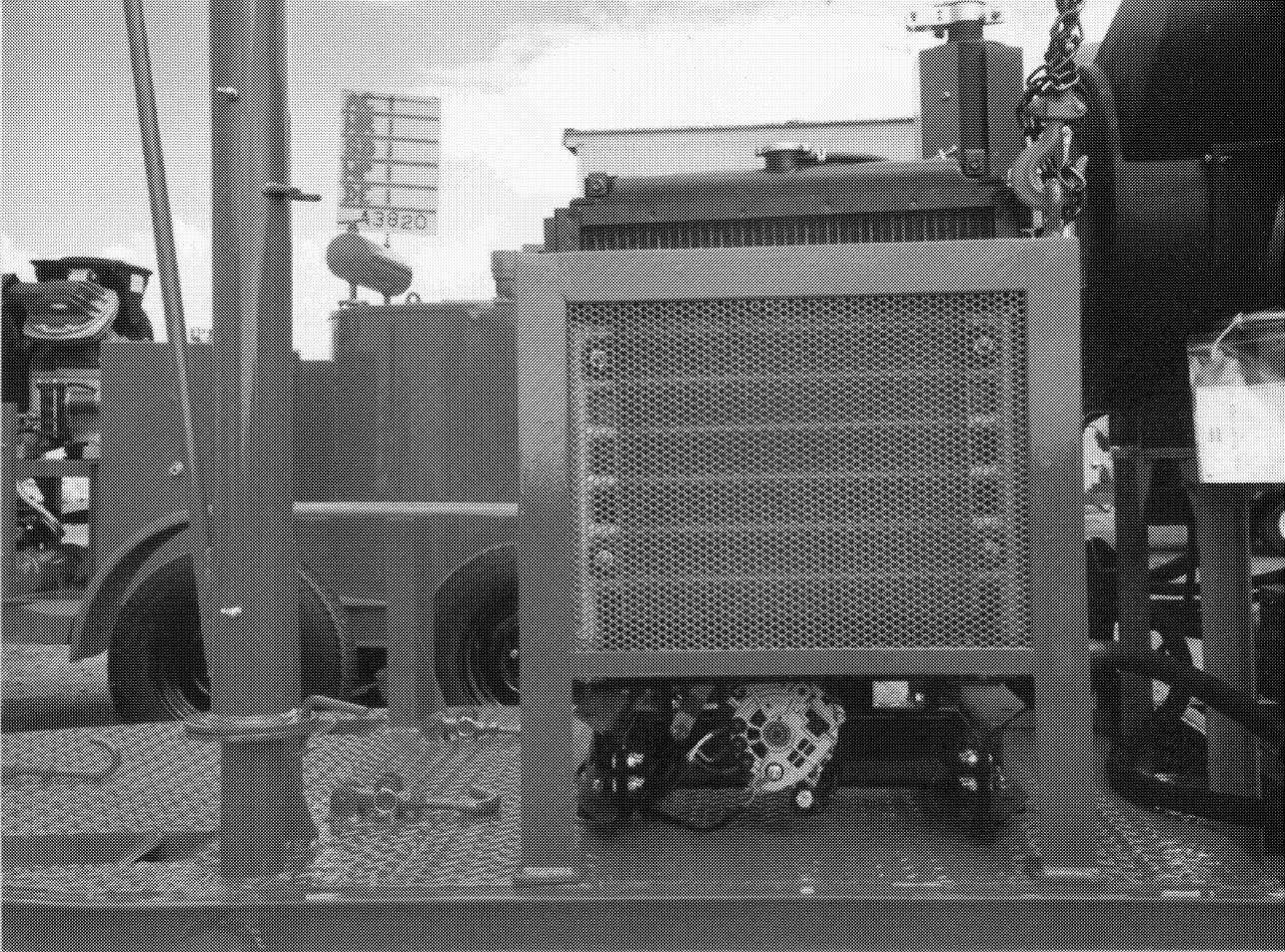
# ENGINE OIL COOLER GUARD-PART NUMBER-44433



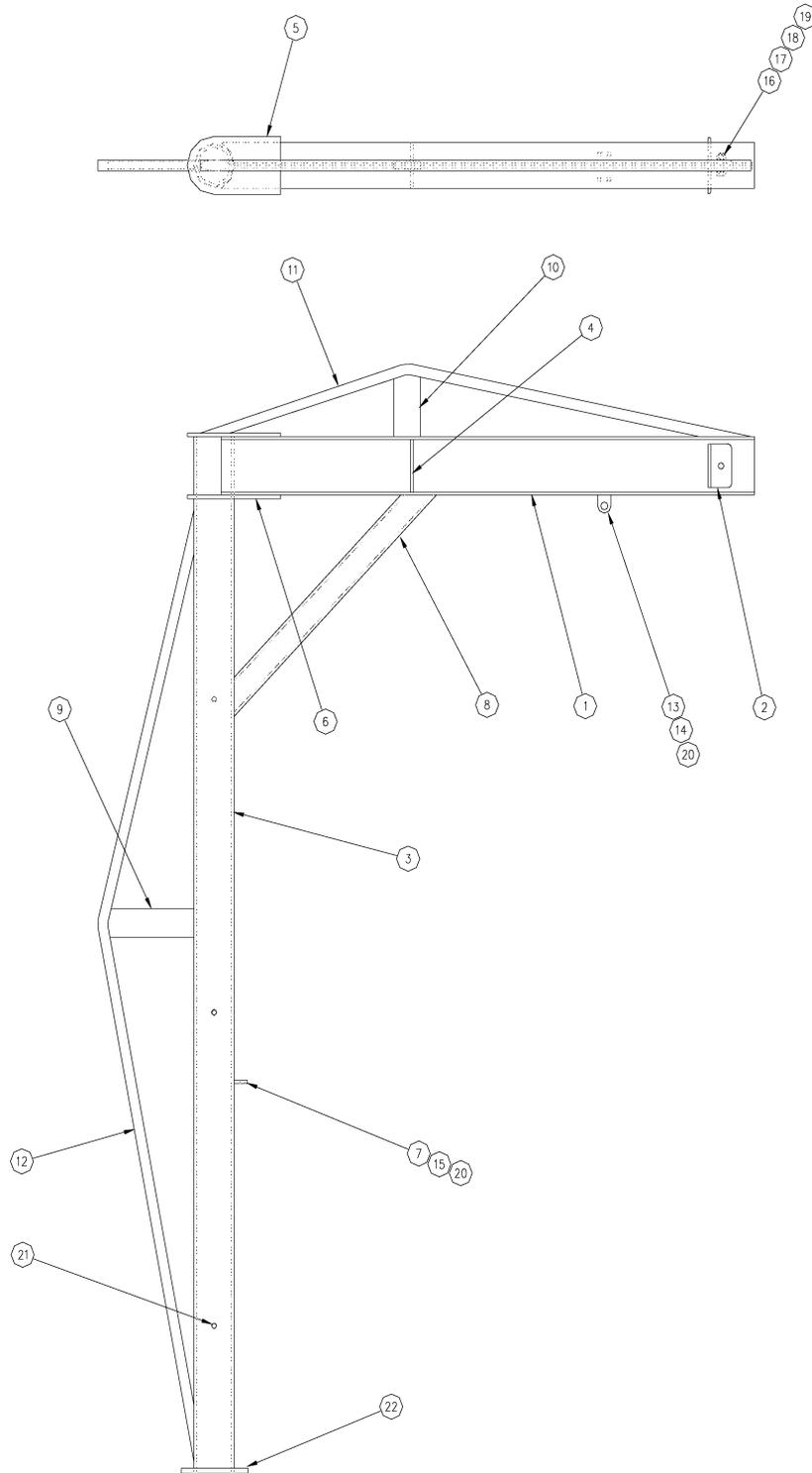
**ENGINE OIL COOLER GUARD-PART NUMBER-44433**

<b>ITEM</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	44432	2	FOOT PAD-GUARD
2	44431	1	HORIZ ANGLE GUARD LEG
3	44430	1	HORIZ ANGLE GUARD LEG
4	44429	2	VERTICAL UPRT GUARD LEG
5	44428	1	PROTECTIVE GUARD SCREEN
6	26113	1	EYEHOOK
7	28528	1	1/2-13 UPSET NUT
8	28674	1	1/2" WASHER

**ENGINE OIL COOLER GUARD-PART NUMBER-44433**



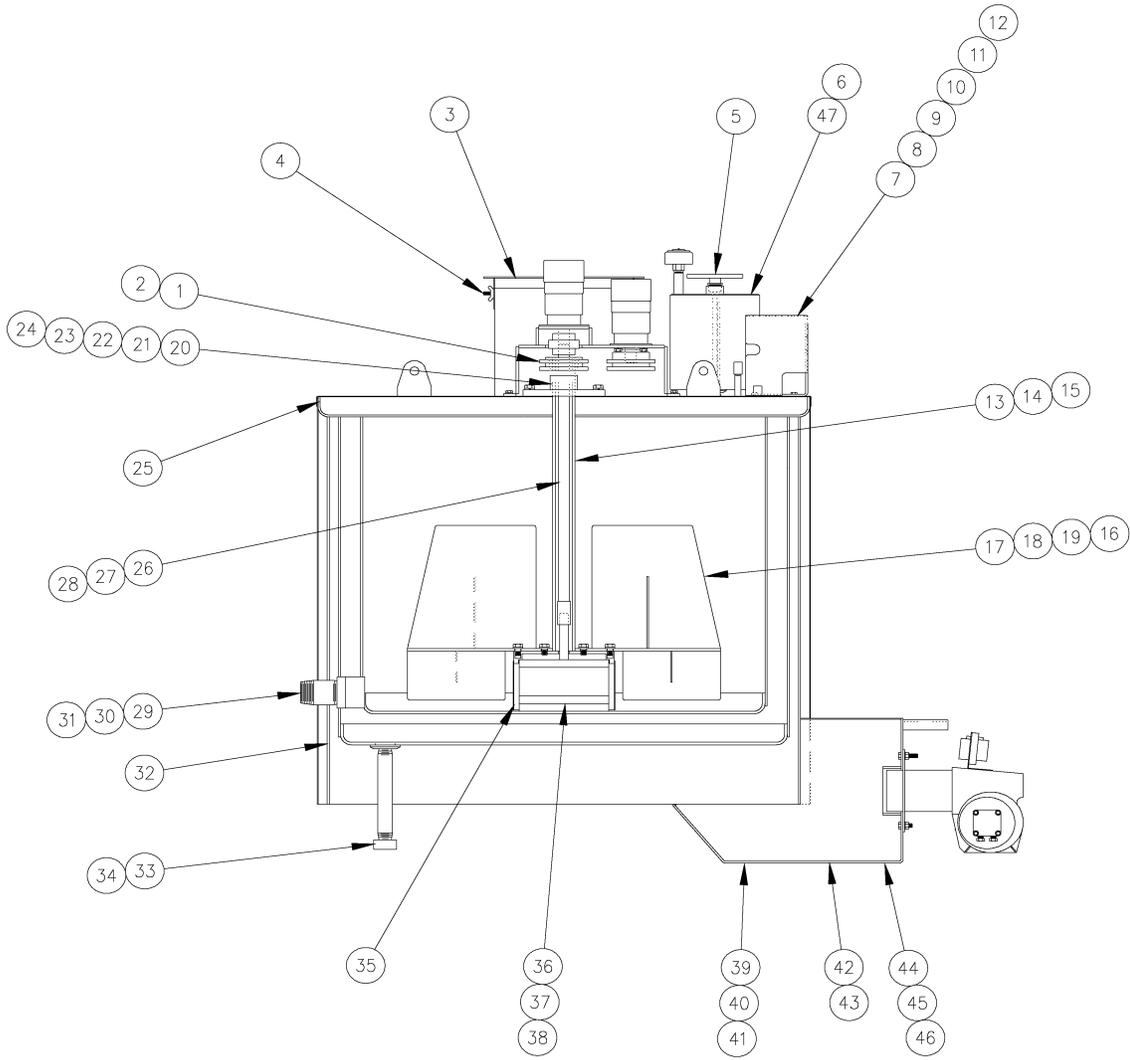
# PIVOTAL CRANE ASSEMBLY-PART NUMBER-44450



**PIVOTAL CRANE ASSEMBLY-PART NUMBER-44450**

<b>ITEM</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	44415	1	HEAVY-DUTY "1"-BEAM TRL
2	44416	2	FRONT TROLLEY STOP
3	44413	1	SWIVEL CRANE UPRGHT TUBE
4	44414	2	TROLLEY STOP PLATE
5	44418	1	TOP SUPT RADIUS PLATE
6	44419	1	BOTTOM SUPT RADIUS PLATE
7	44420	2	STORAGE PIN HOLDING PLATE
8	44421	1	UNDER SUPPORT BRACE
9	44422	1	HORIZ TENSION SUPT BRACE
10	44423	1	VERT TENSION SUPT BRACE
11	44424	1	VERT TNSION SPT CBLE BAR
12	44425	1	HORZ TENSNS SPT CBLE BAR
13	44439	2	STRGE PIN HOLD DOWN HOOK
14	44440	1	STORAGE PIN-TROLLEY
15	44441	2	LOCKING STORAGE PIN-BOOM
16	285025	1	3/8-16 THREAD HEX-NUT
17	28634	1	3/8 FLAT STEEL WASHER
18	28647	1	3/8 SPLIT SPRING WASHER
19	28733	1	3/8-16 X 1-1/2 BOLT
20	43248	2	COTTER PIN
21	32022	3	1/4-28 NF GREASE ZERK
22	44448	1	BOT CRANE PIVOT PLATE

# TANK ASSEMBLY DETAIL- PART NUMBER-44401-2



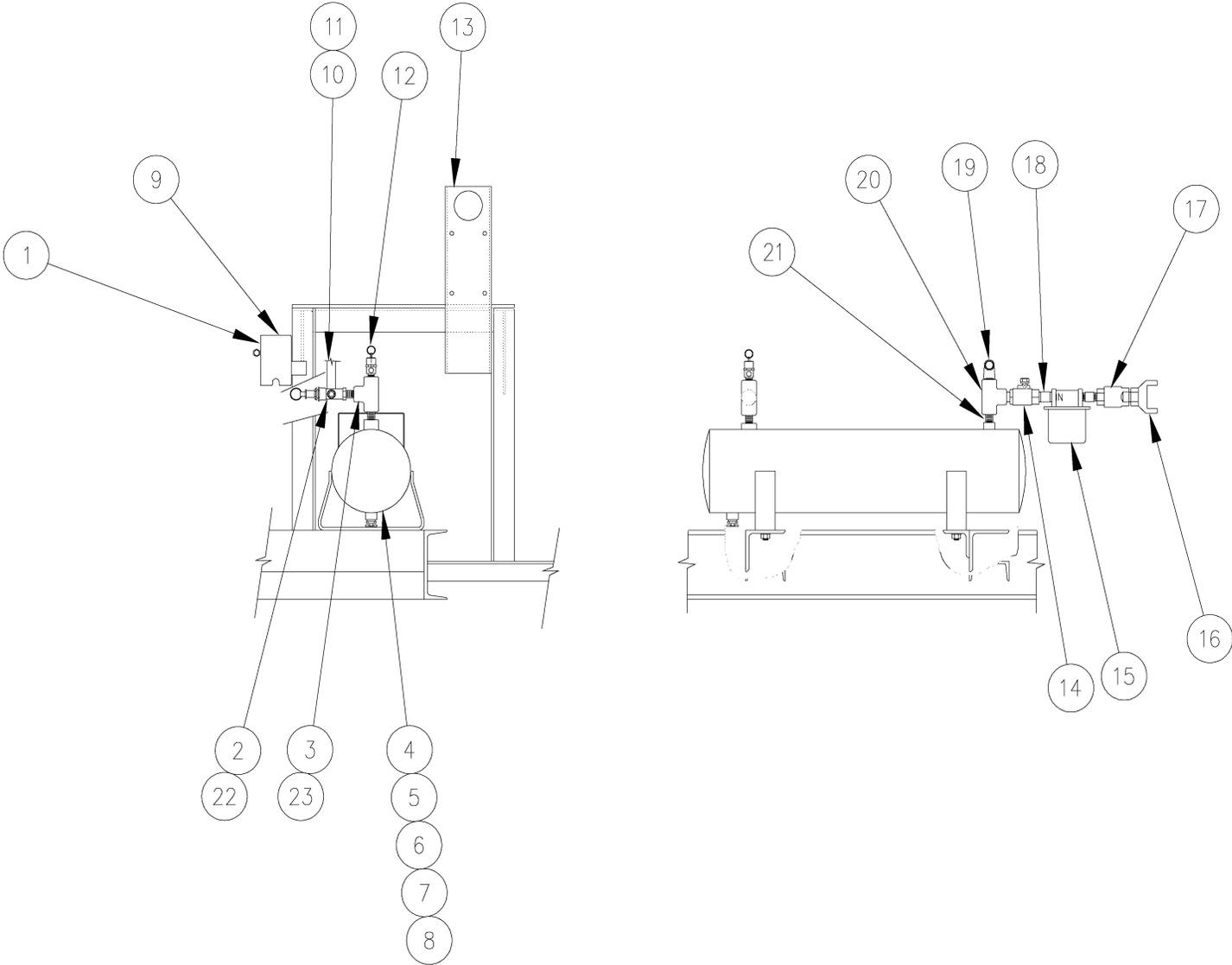
**TANK ASSEMBLY DETAIL- PART NUMBER-44401-2**

<b>ITEM</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	43321	1	CHAIN
2	43322	1	SPROCKET
3	41183	1	VENT COVER
4	28715	2	5/16-18 X 3/4 BOLT
5	43673	1	DIPSTICK
6	43763	1	AIR RELIEF ASSY.
7	43818	1	BRACKET
8	28715	3	5/16-18 X 3/4 BOLT
9	28646	3	5/16 L'WASHER
10	43841	1	COVER CONTROL VALVE
11	28606	3	1/4 THREADED INSERT
12	28701	3	1/4-20 X 3/4 BOLT
13	43639	1	AGITATOR SHAFT
14	28772	4	1/2-13 X 3/4 BOLT
15	28649	4	1/2 LOCK WASHER
16	43649	2	PADDLE
17	28772	6	1/2-13 X 3/4 BOLT
18	28649	6	1/2 SPLIT L'WASHER
19	28674	6	1/2 S.A.E. WASHER
20	50012	1	FLANGE BRG.
21	27944	2	1/2-13 X 2 STUD
22	28649	2	1/2 SPLIT L'WASHER
23	28636	2	1/2 SAE FLAT WASHER
24	28504	2	1/2-13 NUT
25	43644	1	MODIFIED SKIN COVER

**TANK ASSEMBLY DETAIL- PART NUMBER-44401-2**

<b>ITEM</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
26	43641	1	PUMP DRIVE SHAFT
27	31368	1	KEY 1/4 X 1/4 X 7/8
28	40084	1	KEY 3/16 X 3/16 X 7/8
29	28046	1	2" X 4" PIPE NIPPLE
30	28273	1	PIPE CAP
31	43413	1	CENTER PLATE
32	43625	1	TANK ASSY.
33	28132	1	1" X 10" PIPE NIPPLE
34	28270	1	1" PIPE CAP
35	43655	1	STRAINER ASSY
36	43677	1	MATERIAL PUMP ASSY
37	28739	6	3/8-16 X 5 BOLT
38	28647	6	3/8 L'WASHER
39	41830	1	BURNER BOX ASSY.
40	41891	1	BURNER
41	41883	1	NOZZLE
42	28526	3	3/8-16 ESNA L'NUT
43	41895	1	SHIELD
44	28526	3	3/8-16 ESNA L'NUT
45	41893	1	BURNER COVER
46	28985	3	1/4" SELF TAPPING SCREW
47	43355	1	OVERFLOW TANK

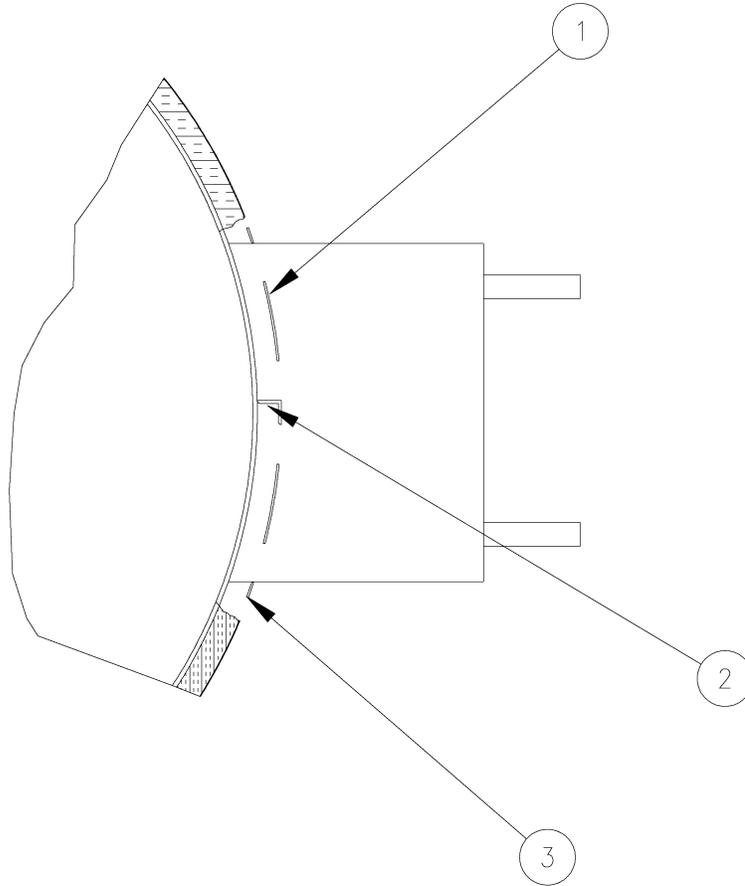
**SECTION D-D -PART NUMBER-44401-3**



**SECTION D-D -PART NUMBER-44401-3**

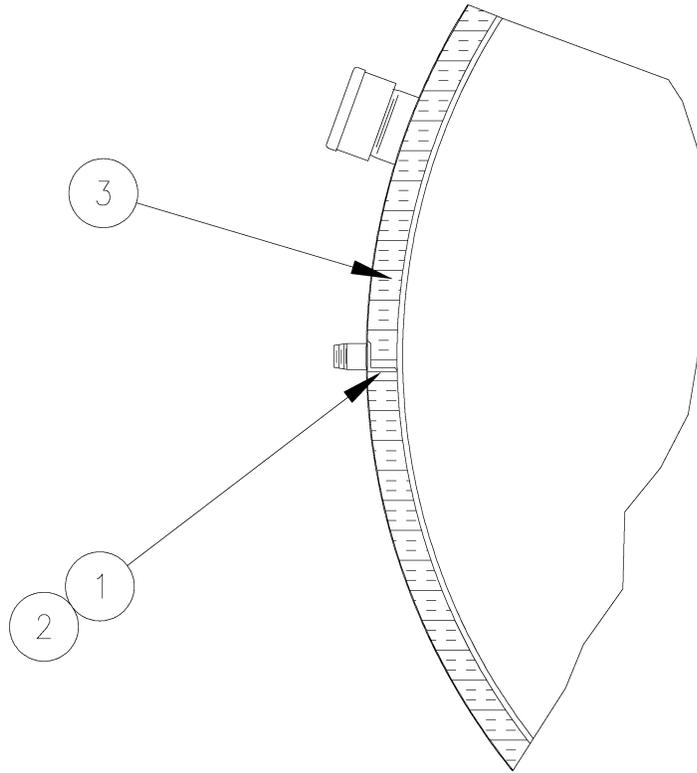
<b>ITEM</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	42621	1	PRESSURE CONTROL
2	28001	1	1/4 CLOSE NIPPLE
3	28001	1	1/4 CLOSE NIPPLE
4	42624	1	AIR TANK
5	28731	4	3/8-16 X 1 BOLT
6	28672	4	3/8 FLAT WASHER
7	28647	4	3/8 SPLIT L'WASHER
8	28502	4	3/8-16 HEX NUT
9	29836	1	29836 REPLACES 26752
10	26750	1	MALE FTG. #4 HOSE
11	29586	12"	1/4" HOSE
12	42629	1	SAFETY VALVE
13	42935	1	IGN. BRACKET
14	29214	1	1/2 BRONZE BALL VALVE
15	42603	1	WATER SEPARATOR
16	42643	1	1/2 AIR HOSE FITTING
17	42702	1	1/2 SWIVEL ADAPTOR
18	51405	2	1/2 HEX NIPPLE
19	29845	1	ELBOW ADAPTOR
20	28253	1	1/2 TEE
21	28018	1	1/2 X 2 NIPPLE
22	42628	1	UNLOADER PILOT VALVE
23	28251	1	1/4 TEE

**SECTION A-A -PART NUMBER-44401-4**



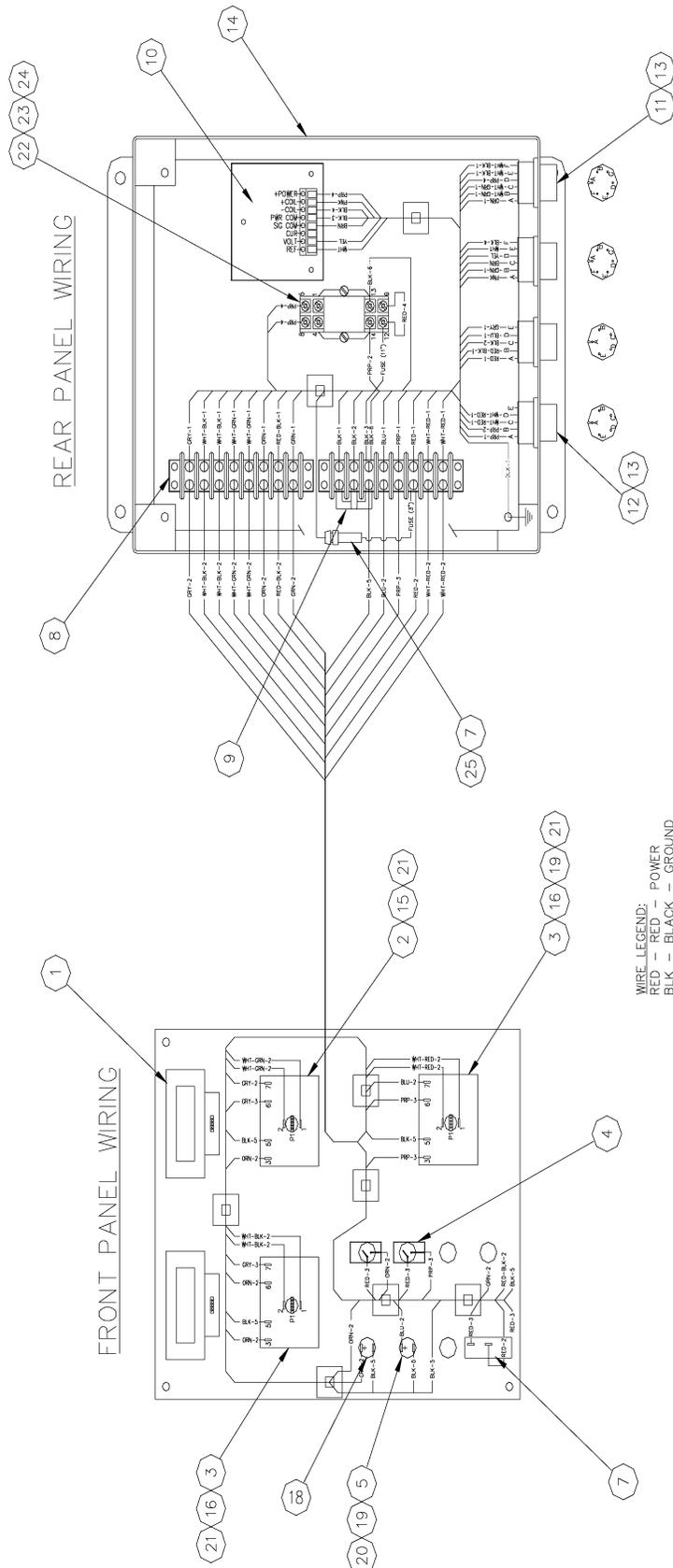
ITEM	PART NUMBER	QTY	DESCRIPTION
1	40267	2	OUTSIDE STRIP
2	42751	1	SKIN SUPPORT - FRONT
3	41158	2	STRIP SKIN SUPPORT

**SECTION B-B -PART NUMBER-44401-5**



ITEM	PART NUMBER	QTY	DESCRIPTION
1	43651	1	SKIN SUPPORT - UPPER
2	43650	1	SKIN SUPPORT - LOWER
3	40068	1	KAOWOOL INSULATION

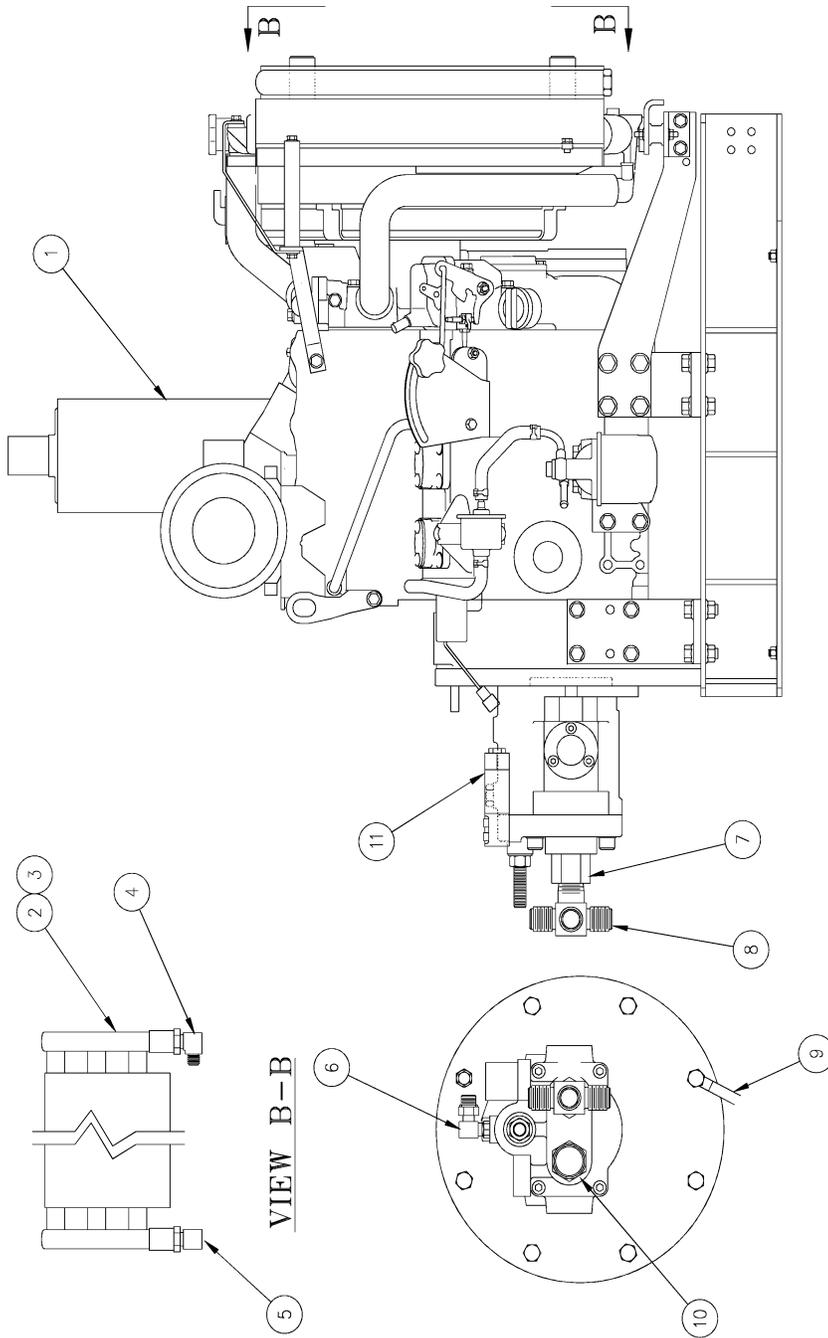
# CONTROL BOX ASSEMBLY-PART NUMBER-43669P



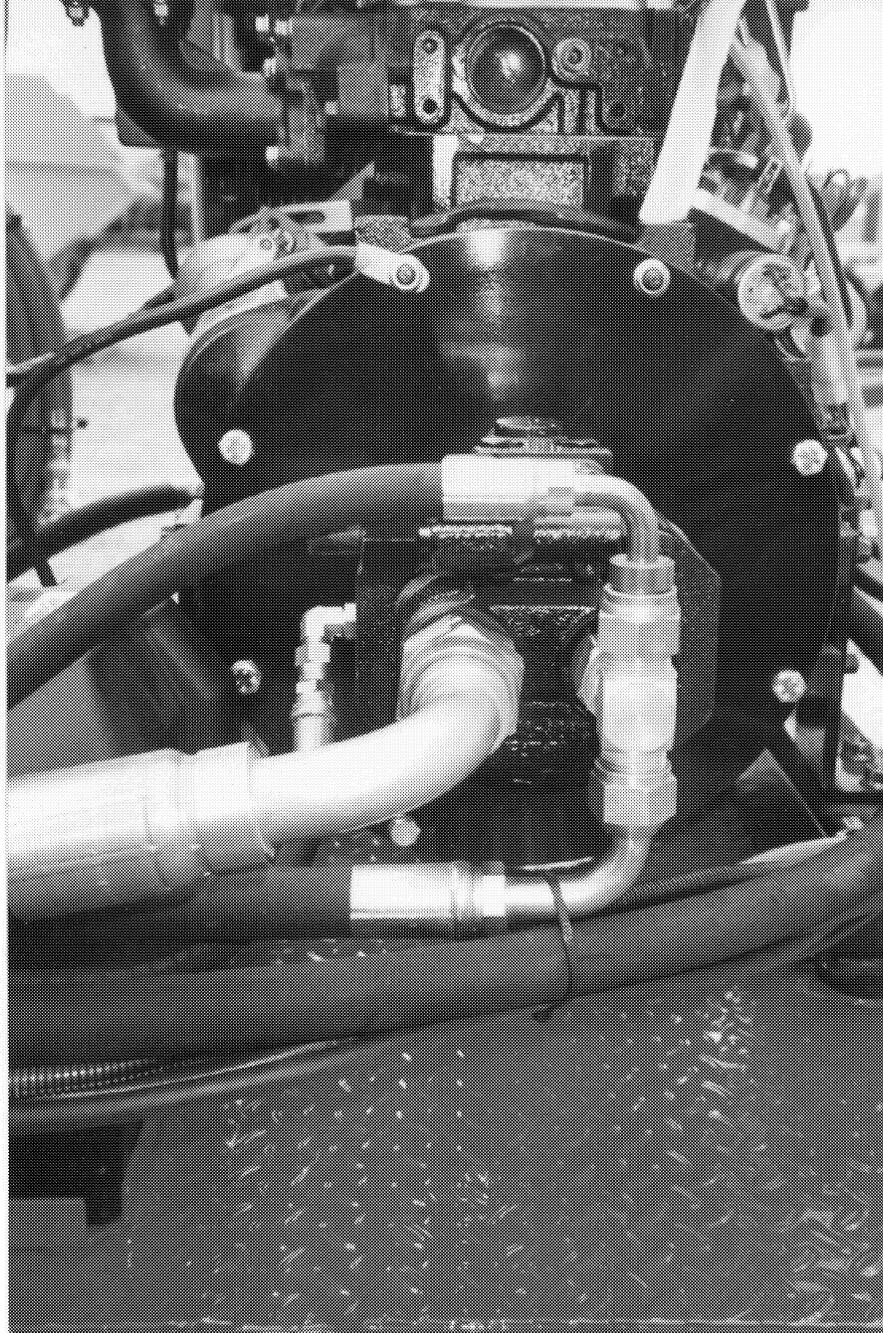
**CONTROL BOX ASSEMBLY-PART NUMBER-43669P**

<b>NUMBER</b>	<b>PART NUMBER</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
1	50251	2	DIGITAL READOUT
2	43391	1	PAK-STAT TEMPERATURE CONTROLLER (150-550)
3	43397	2	PAK-STAT TEMPERATURE CONTROLLER (200-400)
4	50719	2	TOGGLE SWITCH
5	51651	2	LIGHT
6	51665	1	CIRCUIT BREAKER, 15 AMP
7	51664	1	FUSE, 5 AMP
8	50250	2	TERMINAL STRIP
9	50238	2	JUMPER
10	43846	1	DRIVER CARD
11	50517	2	RECEPTACLE, 6-PIN
12	50215	2	RECEPTACLE, 5-PIN
13	50344	4	GASKET - RECEPTACLE
14	43665	1	ENCLOSURE
15	43396	1	DECAL - OIL TEMPERATURE
16	43395	1	DECAL - MATERIAL TEMPERATURE
17	26066	1	DECAL - MATERIAL
18	26313	1	DECAL - BURNER
19	26314	1	DECAL - HEATED HOSE
20	39607	1	ON/OFF NAMEPLATE
21	50593	3	KNOB
22	51662	1	SOCKET - RELAY
23	51661	1	RELAY
24	51663	1	HOLD DOWN SPRING
25	32529	1	FUSE HOLDER

**ENGINE ASSEMBLY- PART NUMBER-44401PB-7**



**ENGINE ASSEMBLY- PART NUMBER-44401PB-7**

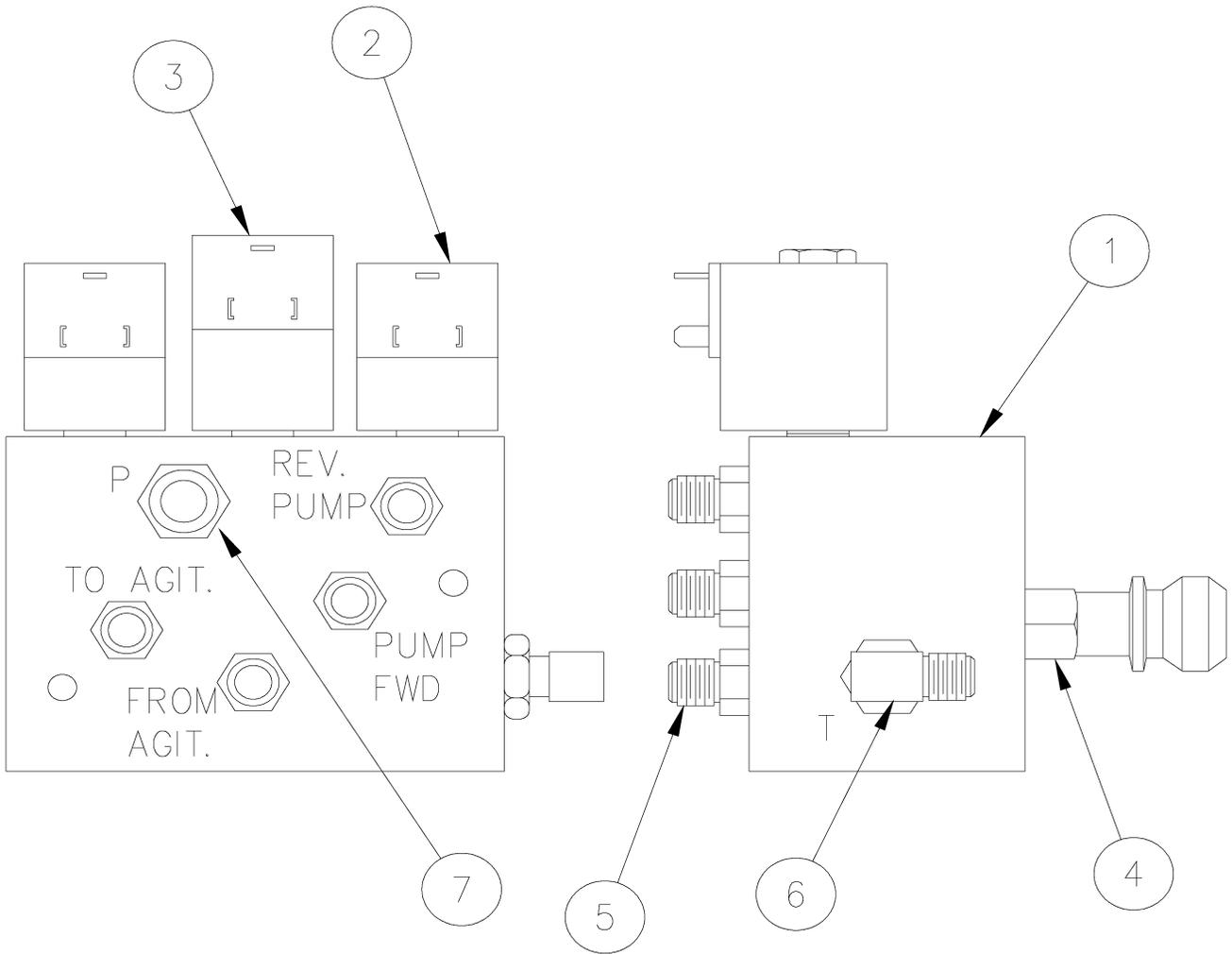


**ENGINE ASSEMBLY- PART NUMBER-44401PB-7**



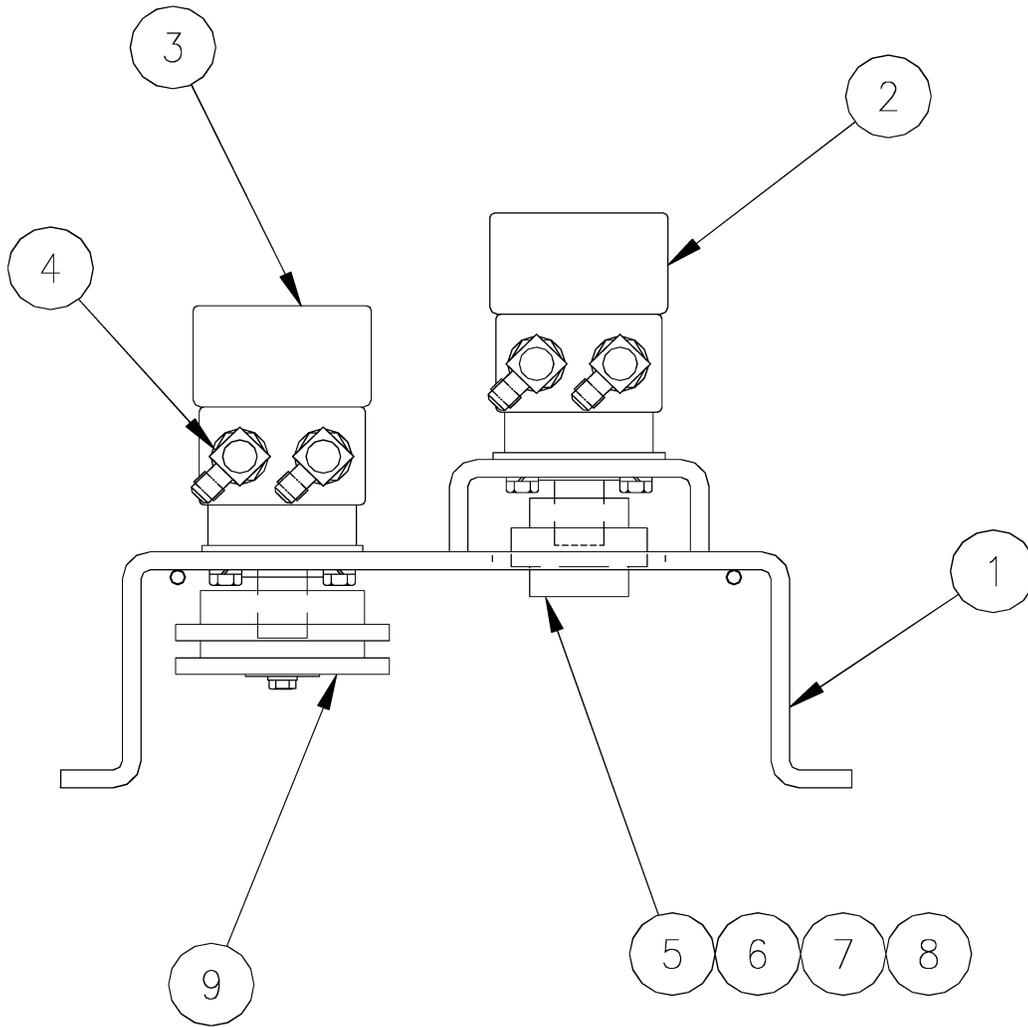
**ENGINE ASSEMBLY-PART NUMBER-44401PB-7**

<b>NUMBER</b>	<b>PART NUMBER</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
1	43869	1	37 HORSEPOWER ENGINE
2	43873	1	HYDRAULIC OIL COOLER
3	42657	2	MOUNTING KIT - OIL COOLER
4	29916	1	STRAIGHT THREAD O-RING 90 DEG. ELBOW
5	29916	1	STRAIGHT THREAD O-RING 90 DEG ELBOW
6	29896	1	STRAIGHT THREAD O-RING 90 DEG ELBOW
7	29964	1	STRAIGHT THREAD O-RING REDUCER
8	51329	1	3/4" MALE BRANCH TEE
9	27174	1	GROUND CABLE
10	29885	1	STRAIGHT THREAD O-RING ADAPTOR
11	43663	1	HYDRAULIC PUMP



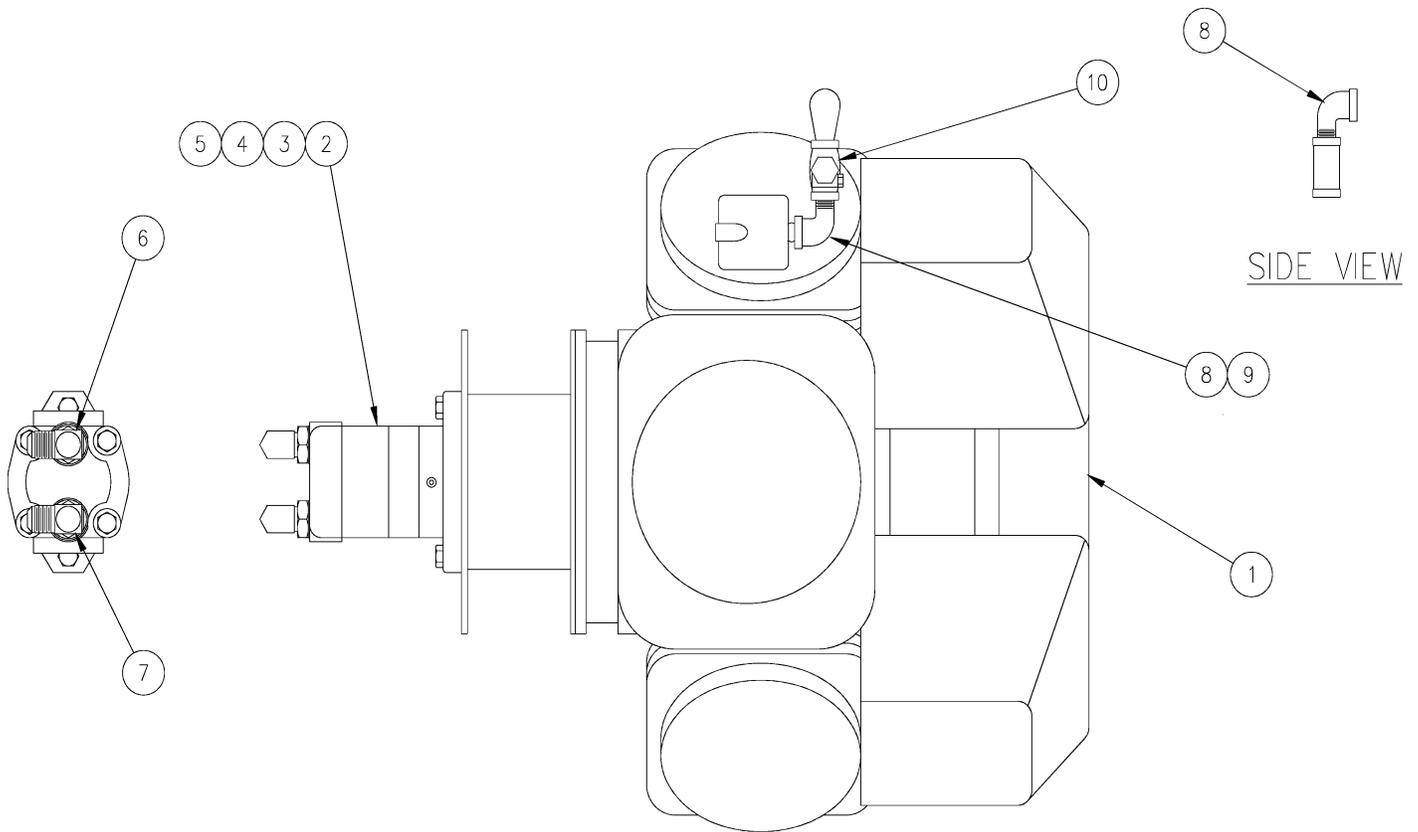
### HYDRAULIC VALVE ASSEMBLY

NUMBER	PART NUMBER	QTY.	DESCRIPTION
1	43817	1	HYDRAULIC VALVE ASSEMBLY
1 a	43719	1	CARTRIDGE VALVE - PUMP
1 b	43721	1	CARTRIDGE VALE - MIXER
1 c	43722	1	CARTRIDGE VALVE - REVERSE
2	43853	2	COIL - CONTROL VALVE
3	43854	1	COIL - PROPORTIONAL VALVE
4	43718	1	FLOW CONTROL - MIXER
5	40311	4	STRAIGHT ADAPTER
6	40309	1	ELBOW ADAPTOR
7	29897	1	STRAIGHT ADAPTER



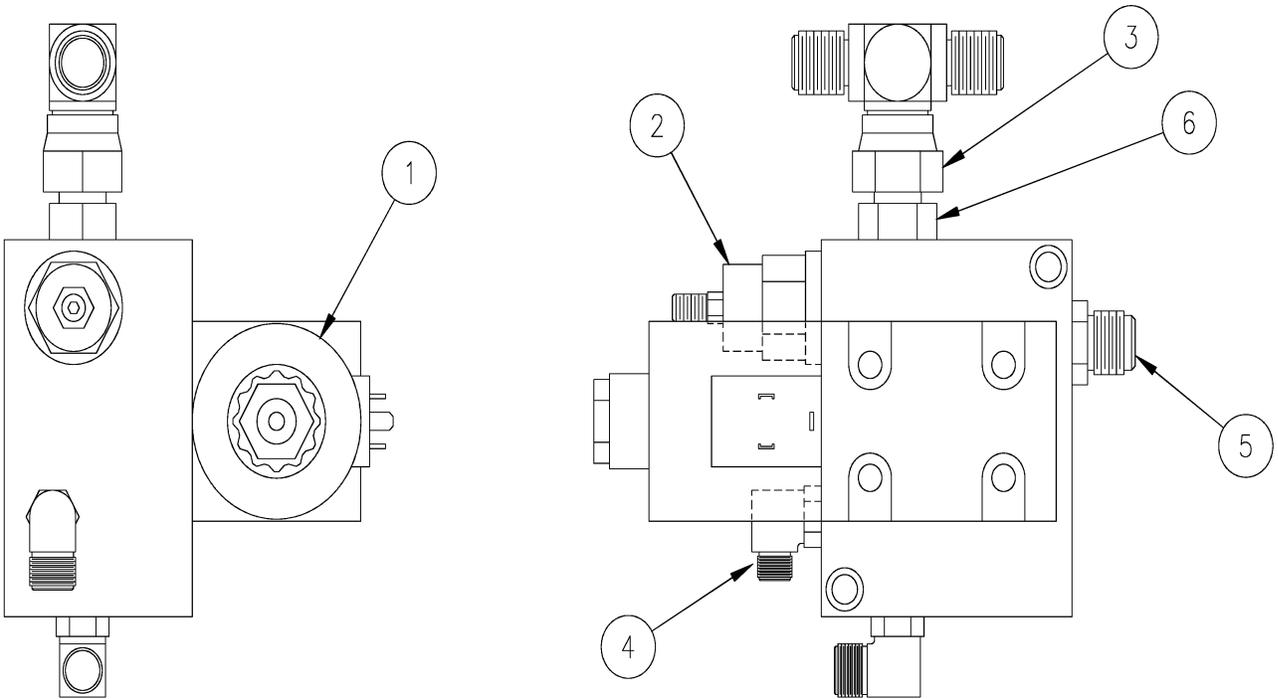
**PUMP / AGITATOR ASSEMBLY**

NUMBER	PART NUMBER	QTY.	DESCRIPTION
1	43345	1	MOTOR MOUNTING BRACKET
2	43345	1	HYDRAULIC MOTOR - PUMP
3	22027	1	HYDRAULIC MOTOR - AGITATOR
4	22029	4	STRAIGHT O-RING ADAPTER
5	26002	2	SPROCKET - CHAIN COUPLING
6	26016	1	CHAIN - COUPLING
7	26030	1	CONNECTING LINK - CHAIN
8	31368	1	KEY 1/4 X 1/4 X 7/8
9	43323	1	SPROCKET - AGITATOR DRIVE



### AIR COMPRESSOR ASSEMBLY

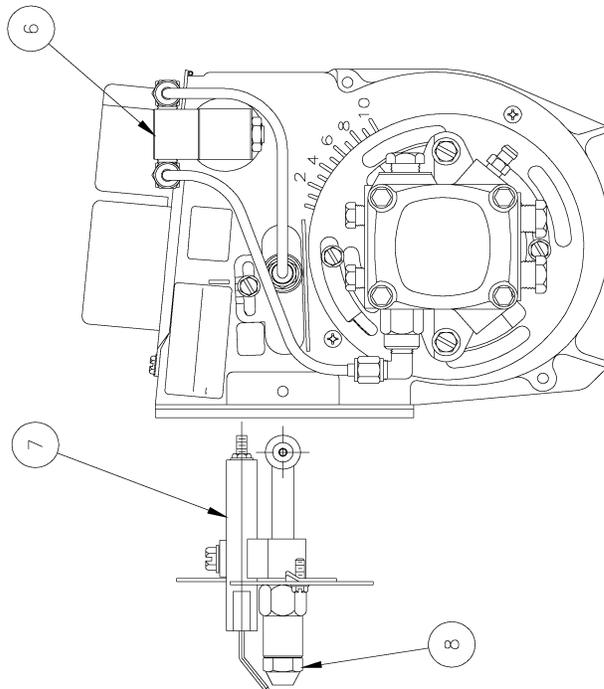
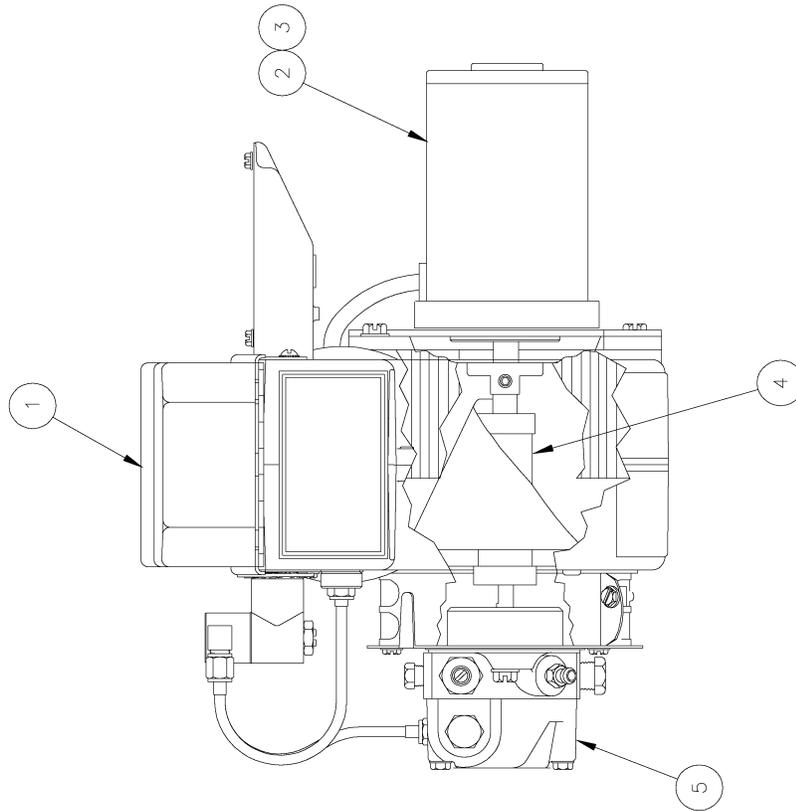
NUMBER	PART NUMBER	QTY.	DESCRIPTION
1	43875	1	AIR COMPRESSOR
2	43874	1	HYDRAULIC MOTOR
3	43707	1	COUPLING HALF - MOTOR
4	43709	1	COUPLING SLEEVE
5	43708	1	COUPLING HALF - COMPRESSOR
6	29842	1	STRAIGHT THREAD O-RING 90° ELBOW
7	29916	1	STRAIGHT THREAD O-RING 90° ELBOW
8	28003	1	1/2" CLOSE NIPPLE
9	28238	2	1/2" STREET ELBOW
10	29215	1	1/2" CHECK VALVE



### FLOW CONTROL VALVE ASSEMBLY

NUMBER	PART NUMBER	QTY.	DESCRIPTION
1	43717	1	COIL
2	43712	1	FLOW CONTROL
3	29970	1	SWIVEL NUT BRANCH TEE
4	29868	1	STRAIGHT THREAD O-RING 90 DEG ELBOW
5	29862	2	STRAIGHT THREAD O-RING 90 DEG ELBOW
6	22028	1	STRAIGHT THREAD O-RING ADAPTER
7	43723	1	CARTRIDGE VALVE

# DIESEL BURNER



## DIESEL BURNER

<b>ITEM</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	41949	-	IGNITION TRANSFORMER
2	41890	-	BLOWER MOTOR
3	41934	-	BRUSH KIT - MOTOR
4	41970	-	COUPLING - FUEL PUMP
5	41979	-	PUMP - FUEL
6	41888	-	SOLENOID - FUEL
7	41993	-	ELECTRODE
8	41881	-	NOZZLE
9	41870	-	CAD EYE
10	42335	-	DC CONTROLLER





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