1993

CRAFCO

26217 E-Z POUR 100 DIESEL MELTER WITH PUMP/APPLICATOR

E-Z POUR 100 DIESEL MELTER

WITH PUMP/APPLICATOR

This manual is furnished with each new CRAFCO E-Z POUR 100 DIESEL MELTER. The manual will help your machine operators learn to run the sealer properly and understand its mechanical functions for trouble-free operation.

Your CRAFCO E-Z POUR 100 DIESEL MELTER 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, and
- (2) Maintain your machine regularly as stated in this manual.

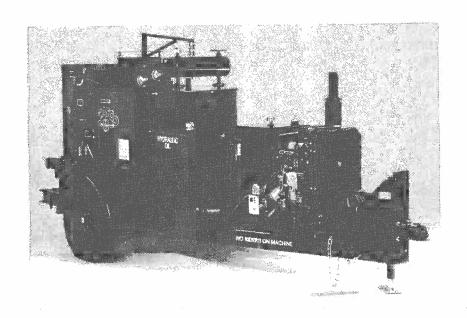


TABLE OF CONTENTS

Safety Precautions	3
Limited Warranty	4
Warranty Claim Instructions	5
Specifications	6
Introduction	7
Operation & Start Up	8
Temperature Control Calibration	10
Loading Machine	11
Shutdown & Cleaning	11
Storing Machine	11
Trouble Shooting Guide	12
Burner Trouble Shooting Guide	13
Service Instructions	13
Maintenance Instructions	14
Maintenance Chart	15
Pump Section	16
Fluids & Lubricants	17
General Maintenance Items	18
Instructions for Ordering Parts	18
Parts List	19-21
Hydraulic Piping	21-23
Diesel Piping Sequence	23
E-Z Pour 100 Diesel Blowup	24
Control Box	25
Optional Gravity Feed	25
Hydraulic Piping Diagram	26
Diesel Piping Diagram	27
Burner Wiring Schematic with Flame Shutdown	28
Wiring with Internal Circuit Breaker	29

SAFETY PRECAUTIONS

- *High operating temperatures of Sealant & Machine require protective clothing and gloves be worn by operator.
- *Always wear eye protection.
- *Observe all CAUTION & 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 & engine prior to refilling Diesel Tanks.
- *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.
- *Replace any hoses which show signs of wear, fraying or splitting. Be sure all fittings and joints are tight and leakproof.
- *Precaution is the best insurance against accidents.
- *The E-Z Pour 100 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.

E-Z POUR 100 DIESEL MELTER 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 Chandler, 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 nulifies any warranty.

CRAFCO, INC. 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 Crafco Distributor. If you do not know who your local distributor is, call a Crafco 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 Crafco, 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, INC. 6975 WEST CRAFCO WAY CHANDLER, AZ 85226 (602) 276-0406 Toll Free 1-800-528-8242

SPECIFICATIONS

Vat Capacity	100 Gallons
Melt Capacity	80 Gallons/Hour
Heat Transfer Oil Required	27 Gallons at 70° F.
Tank Construction	Double Boiler Type
Tank Opening Size	14" x 18"
Maximum Heat Input	Diesel, Forced Air - 250,000 BTU
Burner & Temperature Control	Thermostatic Control
Engine - ISUZU	Twin Cylinder 17 HP @ 3600 rpm
Drive Mechanism	All Hydraulic with infinite speed forward & reverse action
Mixer	Full sweep mixer with 2 horizontal paddles
Axle	Single - 3,500 lbs. Capacity
Tires (2)	185R-14-8 ply rating (1850 lbs. capacity each)
Dry Weight	Approximately 2,600 lbs.
Diesel Tank	24 Gallons

E-Z POUR 100 DIESEL MELTER OPERATING INSTRUCTIONS

INTRODUCTION

The CRAFCO E-Z Pour 100 Diesel Melter was developed to melt CRAFCO Brand Sealants. However, it will work equally well with all road asphalts and federal specification crack or joint sealants.

DO NOT operate machine without reading operator's manual and being thoroughly familiar with controls:

- 1. Fill engine fuel tank with diesel fuel (use #1 in cold weather, #2 in warm weather).
- 2. Check engine crankcase oil (refer to Engine Operator's Manual).
- 3. Check hydraulic fluid level, at ambient temperature. Add fluid if necessary to bring fluid to correct level.
- 4. Check heat transfer oil supply. Check level at ambient temperature, machine level. At 70° F., oil should be at the top mark. DO NOT overfill, or spillage may occur when machine reaches operating temperature.
- 5. All valves should be in closed position and temperature control box set at "OFF".
- 6. Applicator hose can be kept warm and ready for use by storing in heating chamber before using machine. close heating doors after hose and wand have been coiled in chamber.
- 7. Check temperature control calibration.

OPERATION OF CRAFCO E-Z POUR 100 DIESEL MELTER/APPLICATOR

MACHINE START UP

TO START

- 1. Fully open the Damper Vent Fig. B(1), Page 9.
- 2. Set Temperature Dial to "OFF".
- 3. Start engine.
- 4. Turn Temperature Dial to desired temperature setting.

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 agitator by moving the agitator lever either forward or backward. If agitator does not move, allow material to heat longer. Jamming of agitator shaft causes hydraulic oil to over heat and machine damage could occur.
- 6. When sealant reaches correct application temperature, open main tank valve, open recirculation valve Fig. B(3) and close applicator valve Fig. B(4). Put sealant pump in reverse (Suction) mode. When pump turns freely, reverse sealant pump flow (Discharge) Fig. B(5). This circulates sealant back into tank.
- 7. Check the sealant temperature at material pump. This indicates the temperature of sealant flowing through lines.
- 8. When application of sealant is desired, remove the hose from the rear of machine. Attach hose to hand applicator. Be sure to hand tighten only. Place applicator in rear tank opening, with the hand wand valve in the **ON** position.
- 9. Open applicator valve Fig B(4).
- 10. Close the recirculation valve Fig. B(3). <u>IMPORTANT:</u> Adjust the valve to get the desired amount of flow from the applicator wand given your applicator needs. You do not need to close the valve all the way for application. If material does not flow from wand, the hose may need to be warmed. Heat hose by placing in heating chamber to liquify sealant in hose, then repeat procedure.
- 11. Extreme care should be taken when changing or installing applicator tips. If the material is hot the material pump <u>must</u> be put in the "Suction" mode. This will insure against hot material pumped from wand. Sealant material is hot and can cause skin burns.
- 12. To apply sealant to joint, remove hand applicator from rear tank opening. <u>Make sure</u> the hand wand valve is closed. When applicator wand is over joint, open hand valve and apply sealant.
- 13. To prevent hose from cooling, place the applicator wand in the rear tank opening when not to be used for 2 minutes or more. Always close hand wand prior to inserting wand in tank opening. Open hand valve to recirculate back into tank and keep hose warm.

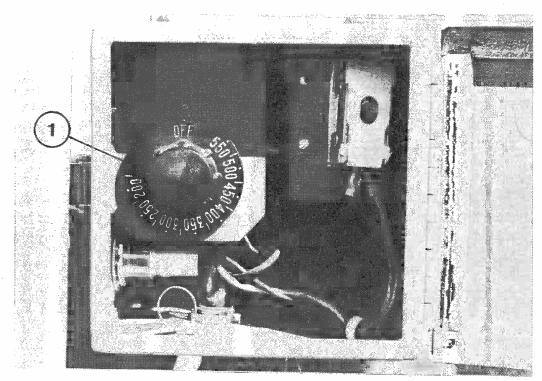


FIGURE A

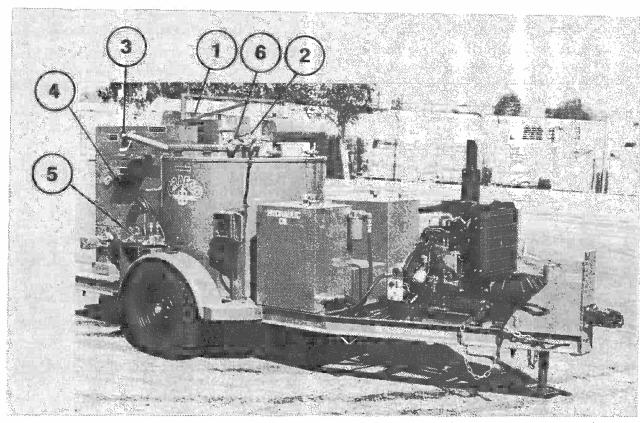


FIGURE B

CHECKING TEMPERATURE CONTROL CALIBRATION

The temperature control system is calibrated at the factory during testing; however, it is good practice to check the calibration when the machine is first put into operation. And also checked again periodically. (Each 50 hours of operation is recommended.) The gauge (Fig. B(6), Page 10), registers the actual temperature of the heat transfer oil and it should coincide with the temperature control hand knob setting (Fig. A(1), Page 9).

To check the calibration, first the machine must be level and the following procedure must be followed - check heat transfer oil level (at 70° F.) must be high enough to submerge the temperature gauge probe. Start up the burner. Set temperature control hand knob at about 250° F. Leave burner on until 200° F. registers on the temperature gauge. Slowly turn the temperature control hand knob down until a click is heard and/or the burner shuts off. If the temperature control hand knob, at this point, reads differently than the temperature gauge, recalibration is required.

RECALIBRATING THE TEMPERATURE CONTROLS

To recalibrate the temperature control, set the temperature control knob to 200° F. When the burner shuts off, carefully pull the hand knob off the spindle. Be careful not to move the spindle during this operation. With a jeweler's screwdriver (or the flattened end of a paper clip) turn the adjusting screw inside the spindle *counterclockwise* no more than 1/8 turn to start the burner, to increase the temperature (1/8 turn will raise the temperature 15° F. to 20° F.), continue turning the screw each time the burner cuts out until the gauge reads 200° F. Carefully replace hand knob. Both the hand knob and the temperature gauge should now read approximately 200° F.

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 2200° F. Certain exposed parts of this machine, when operating, reach 500° F.; the sealant as high as 400° F. and the hydraulic oil may reach 200° F. Always wear protective clothing and eye protection. Be sure that all joints and fittings are tight and leakproof. Immediately replace any hose which shows any signs of wear, fraying or splitting. Tighten all bolts on all flanges after 100 hours. Tighten ALL bolts, nuts and screws every 250 hours.

LOADING MACHINE

When loading solid material into the sealant tank, the mixer must be momentarily stopped, the lid lifted, the material placed on the lid and the lid closed again before the mixer is restarted. Following this procedure will prevent the hot material from splashing and causing serious burns to personnel.

The solid materials 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.

SHUTDOWN AND CLEAN-OUT PROCEDURE

- 1. Turn temperature dial to off.
- 2. Move mixer control valve to OFF postion.
- 3. Close recirculation valve.
- 4. Put material pump in suction mode. With hand applicator valve open, disconnect wand and return hose to heat chamber. Close applicator valve. Open recirculation valve. Close main tank valve.
- 5. Return material pump control valve to OFF position.
- 6. Turn off engine.
- 7. Return wand to heat chamber.

STORING MACHINE

The E-Z Pour 100 should be stored in an area to prevent moisture from entering machine. Extended down time can cause moisture build up in heating oil tank.

Follow procedure below if there is any suspicion that moisture is present: Warm heat transfer oil to 300° F. for 2 to 3 hours to evaporate any moisture.

TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	REMEDY
Mixer will not rotate.	Sealant temperature too low.	Continue to heat material.
	Too many blocks placed at one	Continue to heat material & try
	time.	reversing mixer.
	Inadequate hydraulic flow/pressure.	Check hydraulic fluid level.
		Reset pressure/check flow if
		necessary.
Material pump will not turn.	Material in tank not to operating temperature.	Continue heating material.
	Inadequate hydraulic, flow/pressure.	Check hydraulic fluid level.
		Reset pressure/check flow as
		necessary.
	Material pump damaged or foreign	Replace/Remove.
	object lodged in pump.	
Sealant will not recirculate	Material in tank not to correct	Continue heating material.
back into tank through	temperature.	
recirculation valve.	Drain valve closed.	Open valve.
	Material still cold in suction line.	Make sure compartment
	Recirculation valve closed.	temperature is adequate to melt
		material. Open valve.
Sealant material flows	Application valve not open.	Open valve.
through recirculation valve	Recirculation valve still open or	Close valve or replace.
but will not flow through	damaged internally.	
application hand wand.	Hose/wand still cold.	Leave in chamber until hot.
When applying sealant it	Hand applicator valve was left in off	Heat hose by placing in heat
stops flowing from	position too long.	chamber to liquify sealant.
applicator wand.	Too many blocks of material added	Heat hose by placing in heating
	to tank. Cold material entered pump & stopped flow.	chamber to liquify sealant.
	Tank fluid level too low for material	Continue heating material until
	to flow into pump.	more liquid material is available.
Pump rotates, but will not	Material pump worn or damaged.	Replace/Repair.
pump material.	Pump rotating in wrong direction.	Reverse control lever.
	Foreign object lodged in inlet line to	Dislodge by reversing pump or
·	pump.	disassemble inlet line.
	Material cold, inlet still solid.	Continue to heat material.
	Block of sealant over drain.	Dislodge by reversing mixer and pump.
Slow heat up of sealant.	Build up of coked or crystallized	Allow machine to cool.
	material on inside of material tank.	Remove deposits and flush with solvent.
	Burner not operating.	See Burner Trouble Shooting Guide page 13.
	Low heating oil level.	Make sure fluid level is correct.
	Low heating oil temperature.	Set at recommended
	<i>5</i>	temperature.

BURNER TROUBLE SHOOTING GUIDE

SEE BURNER MANUAL FOR ADJUSTMENTS AND INSTRUCTIONS				
PROBLEM	CAUSE	SOLUTION		
Blower motor will not turn at correct speed or Burner will not ignite.	 High limit switch. Wires at temperature control box loose or broken. Battery low, alternator belt loose, alternator failure. 	 Check or replace. Check connections or tighten, replace if necessary. Recharge battery, tighten belt, check/replace alternator if 		
	4) Loose/Broken Battery Cable.5) Engine not running.	necessary. 4) Tighten/Replace. 5) Charge battery by starting engine. 6) Replace.		
Burner will not shut down at set temperature.	Thermostatic Control faulty. Thermostatic control faulty or needs recalibration.	Recalibrate or replace if necessary.		
Make sure engine is running so battery is fully charged.				
Burner Blower runs but Burner will not light.	 Clogged fuel nozzle. No fuel in tank, valve at tank shut off, clogged filter or jellied fuel. 	Clean/or Replace. Add fuel if necessary open valve, use fuel for anticipated weather.		
	3) Ignitor wires loose, dirty ignitors, faulty transformer.	Check for loose wiring, clean and adjust ignitors, replace transformer if faulty.		
	4) Faulty fuel solenoid, loose wire.	4) Replace solenoid if necessary tighten all connections.		
	5) Fuel pump at burner needs bleeding.	5) Open bleeder until fuel runs clear, tighten.		
Excess Smoke in Heat Compartment.	Air Vent incorrectly set. Blower Motor not running at correct speed.	Set at 5. Charge Battery by starting engine.		

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. Refer to general maintenance items, page 18.
- 3. Watch for leaks tighten packing on pumps as necessary.
- 4. Clean machine externally periodically. Check with sealant manufacturer for recommendation.
- 5. Follow recommended maintenance procedures on maintenance chart.

MAINTENANCE INSTRUCTIONS

ENGINE:

Check engine oil daily. Change after the first 50 hours of operation and change every 100 hours thereafter.

Change Oil Filter initially at 50 hours, every 150 hours thereafter.

See engine owners manual for additional 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:

Repack 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.

SEALANT PUMP:

Lubricate outboard bearings using a good grade of bearing grease. Adjust pump packing periodically. A slight drippage (several drops per minute) should be allowed. Refer to Pump Section for details. See page 16.

MAINTENANCE CHART

		HOURS		URS	
LOCATION	PROCEDURE	8	50	100	500
Engine Check Oil Level	See Engine Instruction Manual.	*			
Other Engine Maintenance	See Isuzu Operating and Maintenance Instructions.				
Battery	Check Water Level weekly.				
Pump Packing	Tighten as required. Drip should be several drops/per minute.		*		
Pump Outboard Bearing	Lubricate using a good grade of bearing grease.		*		
Heat Transfer Oil	Check (every 8 hours).		*		
	Change	after 500 hours or 1 year.			
Hydraulic Oil Return line filter	First change (10 hours).	*			
	Subsequent changes (250 hours).			*	
Hydraulic Oil	Check Oil (every 8 hours).	*			
	Change Oil (every 500 hours).				*
	For Proper Oil, see recommended fluids & Lubricants, page 17.				
Wheel Bearings	Clean & repack - using 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.			

PUMP SECTION PACKING INSTRUCTIONS

Operate the pump under normal conditions and, after a short run-in period, examine packing for leakage. If leakage is excessive tighten locknuts evenly until there is only slight leakage from the packing rings. This slight leakage is a necessary and normal condition for packing and allows for expansion and proper seating.

NOTE: WHERE LIQUID IS BEING HANDLED THAT IS HAZARDOUS OR VOLATILE, FULL PRECAUTIONS SHOULD BE TAKEN DURING THE RUN-UP PERIOD.

To replace packing remove key, two nuts and clips, packing gland and packing rings. (Packing hooks are commercially available to assist in removing the packing rings). Clean the shaft and adjacent parts. Examine the shaft, if it is excessively worn or scored, replacement of pump may be necessary.

Insert packing rings, making sure the joints are staggered 180 degrees. Use split ring bushings to seat each ring before adding the next ring. The rings must not be tamped or seated in place too tightly. When the packing box is sufficiently full to allow entry of the packing gland (about ¼") reassemble the packing gland, clips and nuts. Draw up evenly on the packing gland to assure proper seating of the packing, and then loosen nuts about ½ turn. Do not cock the packing gland. (This could cause binding or heating of the shaft).

RECOMMENDED FLUIDS & LUBRICANTS

APPLICATION	RECOMMENDED	FULL POINT
Engine Oil	Refer to Isuzu Owners Manual.	3 Qts.
Diesel	#1 Cold Climate #2 Warm Climate	24 Gal.
Hydraulic Oil	RONDO OIL-HD-68 Texaco	26 Gal.
Heat Transfer Oil		27 Gal.

The following is a list of suitable Heat Transfer Oils to be used in Crafco equipment.

Producer	Product Name	Product No.
Texaco	Regal	R&O 68
Gulf	Harmony	68
Shell	Thermia	"C"
Exxon	Teresstic	68
Phillips	Magnus	68
Chevron USA	Heat Transfer Oil #1	
Conoco	Dectol R&O	68
Union Oil	Turbine Oil	68

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 the voidance of all warranties.

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.

GENERAL MAINTENANCE ITEMS

RECOMMENDED QUANTITY	DESCRIPTION	PART NO.
1 Set	Packing, Sealant Pump	29990
1	Sealant Hose 15'	27084
1	Engine Oil Filter	42327
1	Engine Fuel Filter	42328
1	Hydraulic Filter	22071
1	Air Filter	42329

INSTRUCTION FOR ORDERING PARTS

Parts may 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:

- 1. Part Number
- 2. Machine Model
- 3. Serial Number from Name Plate

Write or telephone:

CRAFCO, INC. 6975 WEST CRAFCO WAY CHANDLER, AZ 85226 (602) 276-0406 Toll Free: 1-800-528-8242

PARTS LIST

ITEM NO.	DESCRIPTION	ατγ.	PART NO.
1.	Tire and Wheel Assembly	41743	
	Axle Assembly with Springs	2	41560
2. 3.	Shackle Bolt	6	23100
	Shackle Nut	6	23105
4.	Shackle Tie Plate	4	23075
5. 6.	Fender - L.H. Assembly	1	41575
7.	Fender - R.H. Assembly	1	41576
8.	5/16 - 18 x 1 Bolt	8	28716
	5/16 Fender Washer	8	28681
9.	5/16 - 18 Locknut	8	28525
			24022
11.	Tail Light - R.H.	1	24023
12.	Tail Light - L.H.	4	28670
13.	¼ Flat Washer	10	28645
14.	¼ Lockwasher	10	28500
15.	1% - 20 Hex Nut	10	23097
16.	Tongue Jack, Side Mount		23096
17.	Jack Swivel Bushing		23117
18.	Breakaway Switch Unit	1 1	42317
19.	17 H.P. Diesel Engine		41872
20.	Isomount	4	
21.	Electric Fuel Pump	1	31302
22.	Hydraulic Pump	1	41193
23.	½ - 13 x 1¼ Bolt	2	28761
24.	½ Lockwasher 2		28649
25.	Solenoid	1	39602
26.	Hydraulic Reservoir 1		42320
27.	Tuer rank		42315
28.	Air Breather	3 2602	
29.	Dipstick Assembly	1	41162
30.	Filler Cap	11	26035
31.	Hydraulic Filter	11	22070
32.	14 Volt Burner	1	41891
33.	Burner Nozzle	1	41883
34.	Flow Divider	1	41573
35.	Material Pump Cont. Valve	1	41092
36.	Agitator Cont. Valve	1	41093
37.	¼ - 20 x 1½ Bolt	6	28704
38.	Mounting Plate	1	40029
39.	Pipe Spacer	4 40030	
40.	3/8 - 16 x 2½ Bolt	o opaco.	
41.	0/0 10 X 2/2 DOIL		28647
42.	0/0 20010101		22310
43.	/ Igitator motor		28732
44.	0/0 10 X 1/4 DOIL		41690
45.	Paddle Assembly	2	41587
46.	3/8 - 16 Locknut	8	28538
47.	½ Pipe Coupling	2	28178
48.	24" Temperature Gage	1	41243
49.	12" Temperature Gage	1	40078

ITEM	DESCRIPTION	QTY.	PART NO.	
NO.	2 25			
50.	Stuffing Box	2	28177	
51.	3/8 Pipe Coupling	2	41153	
52.	Flange Assembly	2	29051	
53.	4 Hole Flange Gasket	8	28731	
54.	3/8 - 16 x 1 Bolt	8	28538	
55.	3/8 - 16 Locknut	1	41553	
56.	Overflow Tank	1	41199	
57.	Dipstick Assembly		25057	
58.	9" Temperature Gage	2	22030	
59.	Flange Nipple Assembly	4	29050	
60.	Flange Gasket - 6 Hole	40	28731	
61.	3/8 - 16 x 1 Bolt	40	28538	
62.	3/8 - 16 Locknut	1	41680	
63.	Pipe Assembly - Upper	1	41246	
64.	Recirculation Valve		41679	
65.	Elbow - Recirc. Line	1	41597	
66.	Flange Tee	1	25050	
67.	2½" Temperature Gage	1	41596	
68.	Double Elbow Assembly	1		
69.	2" Sealant Pump	1	27029	
70.	½ - 13 x 1¾ Bolt	4	28763	
71.	½ " Flat Washer	4	28674	
72.	½ Lockwasher	4	28649	
73.	½ - 13 Hex Nut	4	28504	
74.	Hydraulic Motor	1	22027	
75.	3/8 - 16 x ³ / ₄ Bolt	4	28730	
76.	3/8 Lockwasher	4	28647	
77.	Chain Sprocket	2	26002	
78.	Dual Sprocket Chain	1	26016	
79.	Connecting Link	1	26030	
80.	Chain Guard	1	41140	
81.	5/16 Lockwasher	1	28646	
82.	5/16 - 18 Hex Nut	1	28501	
83.	Key - Sealant Pump	1	27017	
84.	Lower Suction Tee	1	41657	
85.	2" Pipe Cap	1	28273	
86.	Flanged Gate Valve	1	29292	
87.	Gasket - 8' Hole	2	29060	
88.	Valve Handle Extension	1	41268	
89.	Flange Assembly - Suction	1	41660	
90.	3/8 Close Nipple	1	28002	
90.	3/8 Ball Valve	1	29202	
	3/8 x 90° Elbow	1	28237	
92.		1	28282	
93.	3/8 Pipe Plug	1	29270	
94.	2" gate Valve	i	28110	
95.	2" x 8" Pipe Nipple	- 2	28213	
96.	2" x 90" Elbow	1	41291	
97.	Cross Feed Pipe	1	41623	
98.	U Bolt Pipe Hanger	1 1	71020	

ITEM		QTY.		
NO.	DESCRIPTION		PART NO.	
100.	Male Female Swivel	2 27048		
101.	Sealant Hose Assembly	1	27009	
102.	Handle Assembly with Valve	1	41208	
103.	Handle Assembly	1	27080	
104.	1" Ball Valve	1	29240	
105.	1 x ¾ Reducing Bushing	1	28351	
106.	3/4 x 8 Pipe Nipple	1	28100	
107.	Hand Wand Assembly	1	41629	
108.	Sealing Tip	1	27171	
109.	Control Box Assembly	1	25286	
110.	Indicator Light	1	24140	
111.	Rubber Grommet	1	26075	
112.	Manual Reset Temperature Probe	1	25240	
113.	#6-32 x ½ Screw	2	28838	
114.	#6-32 Nut	2	28839	
115.	Electric Thermostat 550°	1 25276		
116.	#6 x 3/8 Thread Forming Screw	2 28832		
117.	Temperature Dial	1 25220		
118.	Gravity Feed Option	1 41661		
119.	2 x 90° Street Elbow	1 28243		
120.	2" Gate Valve	1	29270	
121.	2 x 11 Pipe Nipple	11	28150	
122.	2" Pipe Coupling	1	28183	
123.	2" Oil Gate Valve	1	29280	
124.	Transformer	1	41886	
125.	Blower Motor	1	41890	
126.	Fuel Solenoid 1 4188		41888	
	PARTS NOT ILLUSTRATED			
	12" Battery Cable 1		24010	
	38" Battery Cable	1	24015	
	Hour Meter	1	24076	
			31512	

HYDRAULIC PIPING - 100 GAL. DIESEL MELTER

1. HY	1. HYDRAULIC RESERVOIR TO HYDRAULIC PUMP (SUCTION)			
1	29814	Elbow Adaptor		
1	29572	Hydraulic Hose Assembly 1" x 36" Long		
1	29824	Elbow Adaptor		

2. HY	. HYDRAULIC PUMP (PRESS.) TO FLOW DIVIDER VALVE "IN" PORT		
1	29821	Straight Adaptor	
1	29594	Hydraulic Hose Assembly ½ x 48" Long	
1	29805	Bulkhead Connector	
1	29807	Bulkhead Locknut	
1	41552	Tube Assembly	
1	29805	Bulkhead Connector	
1	29807	Bulkhead Locknut	
1	29815	Pipe Swivel Connector	
1	28348	Reducing Bushing ¾ x ½	

3. FL	3. FLOW DIVIDER VALVE ("PB" PORT) TO MATERIAL VALVE ("IN" PORT)		
1	28348	Reducing Bushing ¾ x ½	
1	29841	Straight Adaptor	
1	40012	Hydraulic Hose Assembly 3/8 x 24" Long	
1	29872	Elbow Adaptor	
1	28347	Reducing Bushing ¾ x 3/8	

4. MA	4. MATERIAL VALVE ("OUT" PORT) TO HYDRAULIC FILTER ("IN" PORT) RETURN		
1	29813	Elbow Adaptor	
1	22110	Hydraulic Hose Assembly ½ x 27" Long	
1	29811	Swivel Nut Run Tee	
1	29805	Bulkhead Connector	
1	29807	Bulkhead Locknut	
1	41552	Tube Assembly	
1	29805	Bulkhead Connector	
1	29807	Bulkhead Locknut	
1	29567	Hydraulic Hose Assembly ½ x 41" Long	
1	29813	Elbow Adaptor	
1	28351	Reducing Bushing 1 x ¾	

5. HY	DRAULIC FILT	TER ("OUT" PORT) TO HYDRAULIC RESERVOIR
1	28005	1" Close Nipple

6. FL	6. FLOW DIVIDER VALVE ("REG" PORT) TO MIXER VALVE ("IN" PORT)		
1	28347	Reducing Bushing ¾ x 3/8	
1	29872	Elbow Adaptor	
1	40012	Hydraulic Hose Assembly 3/8 x 24" Long	
1	29876	Elbow Adaptor	
1	28348	Reducing Bushing ¾ x ½	

7. M	7. MIXER VALVE ("OUT" PORT) TO TEE IN LINE 4		
1	29813	Elbow Adaptor	
1	22110	Hydraulic Hose Assembly ½ x 27" Long	

	8 MIXER VALVE ("INBOARD" PORT) TO HYDRAULIC MOTOR FOR MIXER (L.H. PORT)		
1	29841	Straight Adaptor	
1	40187	Hydraulic Hose Assembly 3/8 x 18" Long	
1	29808	Tube Connector	
1	41550	Tube Assembly	
1	22029	Straight Adaptor "O" Ring	

	9. MIXER VALVE ("OUTBOARD" PORT) TO HYDRAULIC MOTOR FOR MIXER (R.H. PORT)	
1	29841	Straight Adaptor
1	40187	Hydraulic Hose Assembly 3/8 x 18" Long
1	29808	Tube Connector
1	41551	Tube Assembly
1	22029	Straight Adaptor - "O" Ring

10. MATERIAL VALVE ("INBOARD" PORT) TO HYDRAULIC MOTOR FOR MATERIAL PUMP (BOTTOM PORT)		
1	29876	Elbow Adaptor
1	29570	Hydraulic Hose Assembly 3/8 x 34" Long
1	22029	Straight Adaptor - "O" Ring

11. MAT	MATERIAL ERIAL PUMP	VALVE ("OUTBOARD" PORT) TO HYDRAULIC MOTOR FOR TOP PORT)
1	29876	Elbow Adaptor
1	29570	Hydraulic Hose Assembly 3/8 x 34" Long
1	22029	Straight Adaptor - "O" Ring

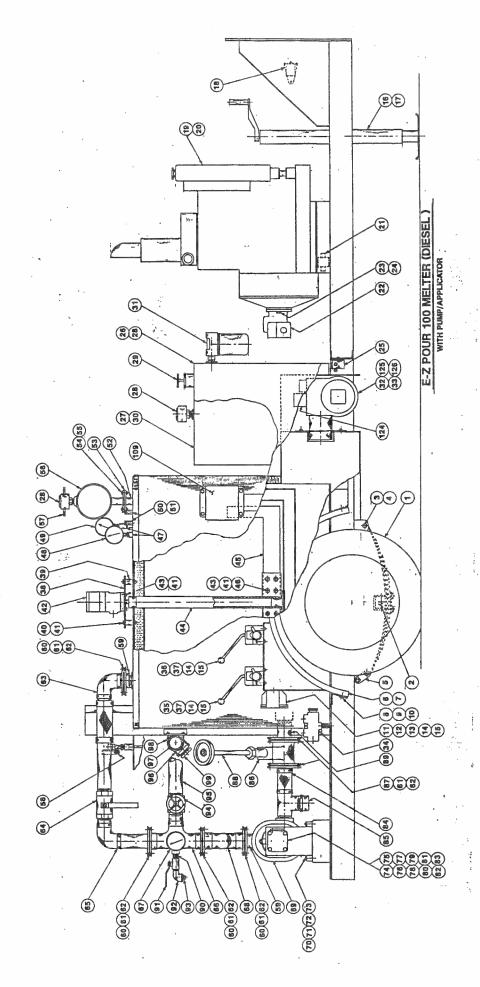
DIESEL PIPING SEQUENCE E-Z POUR 100

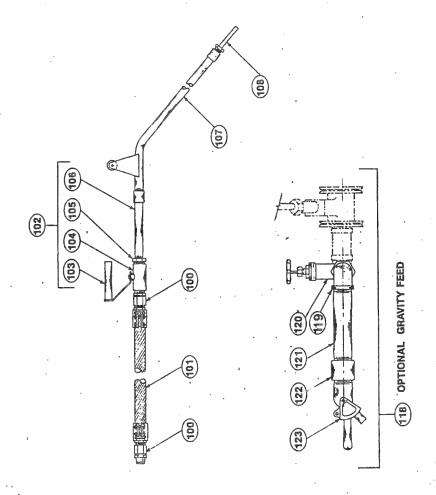
1. D	1. DIESEL FUEL TANK TO ELECTRIC FUEL PUMP ("IN" PORT)		
1	28340	Reducing Bushing ¼ x 1/8	
1	32118	Fuel Valve with Screen	
1	29591	Fuel Hose ¼ x65" long	
2	26080	Gear Clamp	
1	26750	Straight Adaptor	
1	32036	90° Brass Elbow	

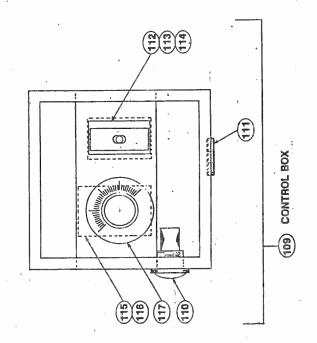
2. E	2. ELECTRIC FUEL PUMP ("OUT" PORT) TO DIESEL ENGINE		
1	32036	90° Brass Elbow	
1	26750	Straight Adaptor	
1	29586	Fuel Hose ¼ x 12" Long	
2	26080	Gear Clamp	

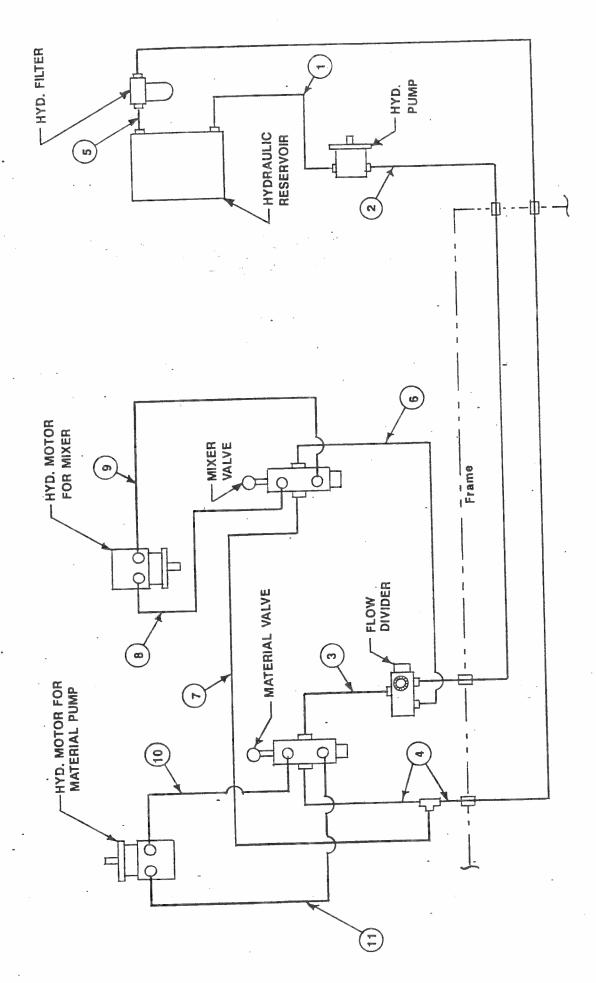
3. DIESEL ENGINE FUEL FILTER TO DIESEL BURNER			
1	29591	Fuel Hose ¼ x 65" Long	
2	26080	Gear Clamp	
1	29031	Tube Adaptor	
1	29870	Elbow Adaptor	

4. DIESEL ENGINE TO TANK (RETURN)			
1	29592	Fuel Hose 3/16 x 80" Long	
1	26080	Gear Clamp	
1	26790	1/8" Strt. Inv. Flare Push On	
1	29870	Elbow Adaptor	





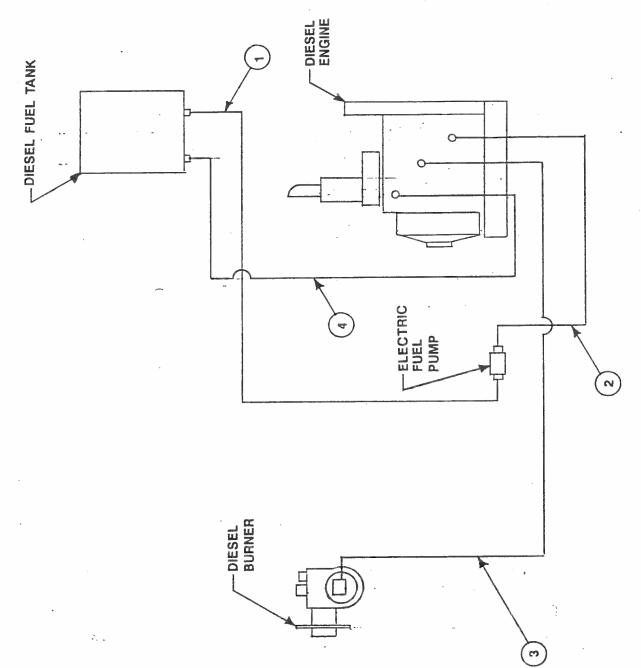




HYDRAULIC PIPING DIAGRAM

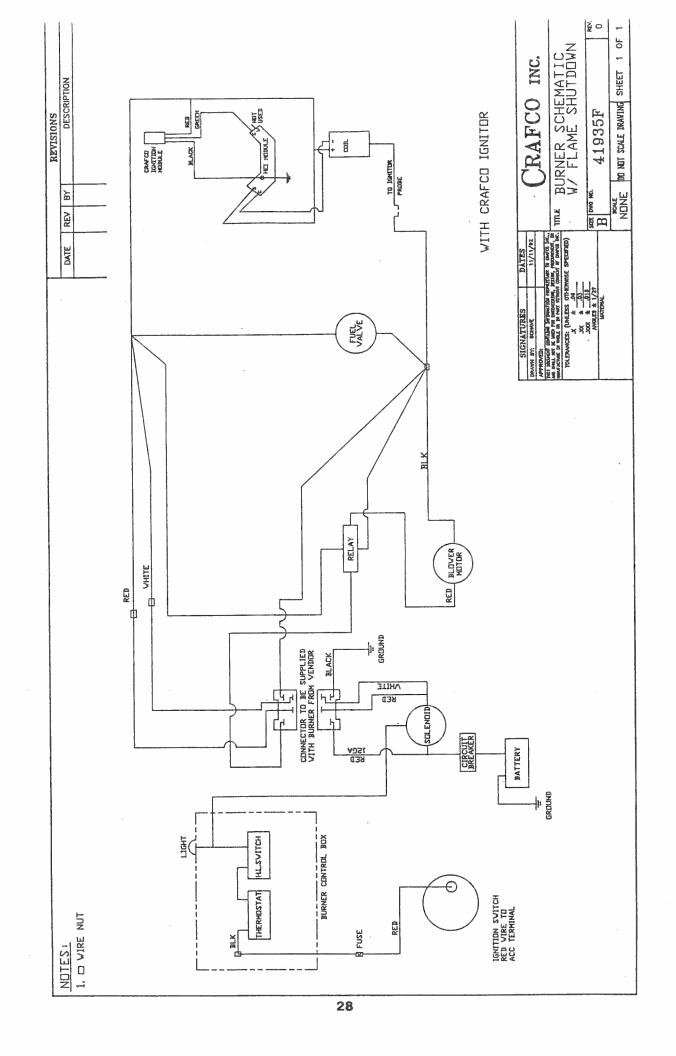
E-Z Pour 100 Melter (Diesel)

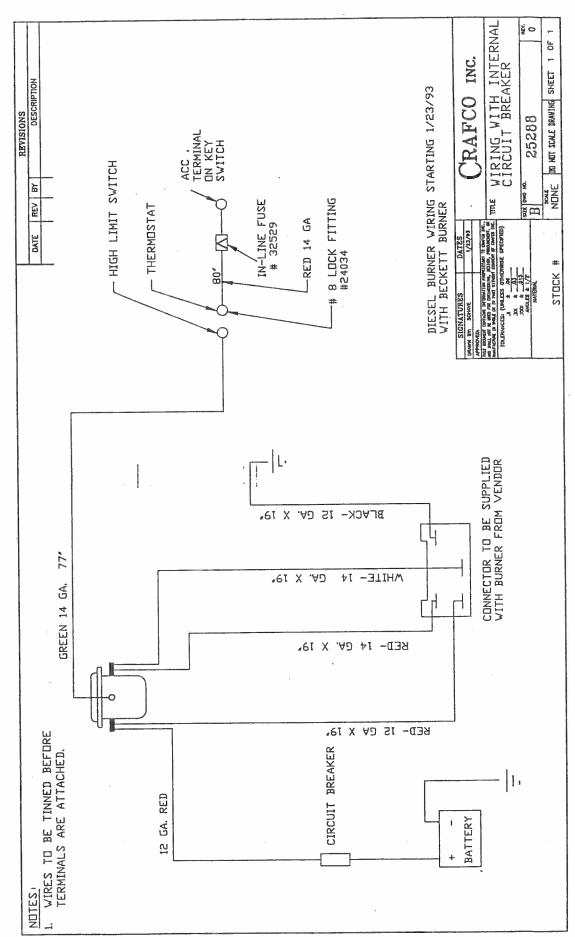
WITH PUMP/APPLICATOR



DIESEL PIPING DIAGRAM

E-Z Pour 100 Melter with PUMP/APPLICATOR





Pioneering Leadership and Innovation in Quality Pavement Maintenance Materials.

CRAFCO INC.

6975 W. Crafco Way • Chandler, Arizona 85226 (602) 276-0406 • Watts 1 (800) 528-8242 FAX (602) 961-0513

©Copyright 1988 by Crafco Inc.