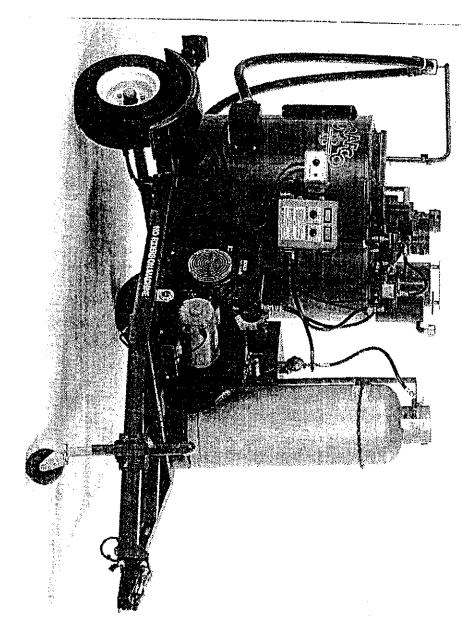
SUPER SHOT 60 MELTER

functions for trouble-free operation. will help your machine operators learn to run the sealer properly and understand its mechanical This manual is furnished with each new CRAFCO SUPER SHOT 60 MELTER. The manual

results at minimum costs if: maintenance expense. Your CRAFCO SUPER SHOT 60 MELTER is designed to give excellent service and save However, as with all specially engineered equipment, you can get best

- (1) You operate your machine as instructed in this manual, and
- (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.

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SAFETY PRECAUTIONS

- *High operating temperatures of Sealant & Machine require protective clothing, hard soled shoes and heat resistant 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
- *Read Operator Manual thoroughly before operating machine
- *Make sure operator is familiar with machine operation.
- *Shut-down burner & engine prior to refilling LPG Tanks.
- *When adding solid material to Sealant Tank, lift lid, place material onto lid and close lid. 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. familiar with its use. Maintain extinguisher properly and
- *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. Check oil each day before starting burner, add oil to full mark on dipstick (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. mounted on control box. Instructions are
- *Calibrate temperature control prior to initial operation and each 50 hours of operation
- *Replace any hoses which show signs of wear, fraying or splitting. joints are tight and leak proof. Be sure all fittings and
- *Precaution is the best insurance against accidents
- *The melter should not be left unattended with the 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.

LIMITED WARRANTY

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

lubrication/maintenance, normal wear, or other cause beyond our control. 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 After 60 days, Crafco, Inc. warrants structural parts, excluding heating system, for parts that have been damaged by accident, alteration, abuse, improper

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

covered components must be bore by the purchaser. All transportation and labor costs incurred by the purchaser in submitting or repairing

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

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

ELECTRIC HOSE CARE AND CAUTIONS

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

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

This type of failure is not covered under the Crafco warranty

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

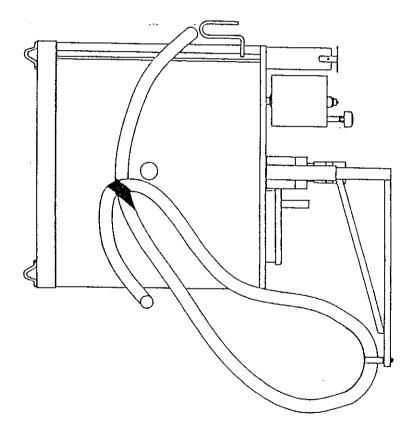
- <u>:</u> minimum temperature of 300°F Do not move or use hose unless it has been turned on at least 35 minutes and set at
- Ŋ Make sure hose swivel between hose and wand moves freely
- 3. Limit the hose bending to a radius of 10 inches
- 4 Avoid bending the hose over sharp edges such as the edge of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

TROUBLESHOOTING OF THE CRAFCO ELECTRIC HOSES

- If the hose quits heating check the following:
- Power from the temperature controller
- b. Electrical connectors to the hose
- c. Electrical connectors from the hose to the wand

the If a connector is loose or broken, repair or replace the connector. control box, see the instruction manual If there is no power from

3 than 60 days old and there are no signs of abuse, above problems and the hose is over 60 days old, replace the hose. Check the hose for kinks, soft spots, bubbles, or sealant leaks. consideration. If the hose is kinked, it will not be warranted call Crafco for possible warranty If you see one of the If the hose is less



HOSE TRANSPORT INSTRUCTIONS

- STORE WAND IN SUPPORT HOOK.
- INSERT LOCKING PIN. ROTATE JIB SUPPORT 90 DEGREES TOWARDS CURB SIDE OF MELTER AND
- ROTATE HOSE CRADLE SO THE HOSE CROSSES AT THE TANK DRAIN.
- USE VELCRO STRAP TO FASTEN 末 HOSE TOGETHER AT 井 INTERSECTION

AUTION HOSE DAMAGE OCCUR:

- HOSE BENT OR MOVED WHEN COLD.
- HOSE $\overline{\Omega}$
- 2. SET AT 380 F. HOSE S TWISTED OR BENT AT LESS THAN A 10" RADIUS.

 MOVED PRIOR TO BEING TURNED ON AT LEAST 35 MINUTES
- 유 F OPERATOR CROSSES WIRES BETWEEN WAND OVER OR UNDER HOSE CAUSING HOSE TO TWIST AND HOSE CONNECTION TO TWIST OR WRAP UP.
- SWIVEL IS COLD AND NOT FREE TO MOVE ALLOWING HOSE TO TWIST.
- HOSE 70 WAND WIRING IS PULLED, STRESSED, OR USED 70 SUPPORT WAND

CRAFCO, INC. WARRANTY CLAIM INSTRUCTIONS

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

- 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.
- \mathfrak{D} 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.
- **£** 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 W. CRAFCO WAY CHANDLER, AZ 85226 (602) 276-0406 Toll Free 1-800-528-8242

SPECIFICATIONS

Vat Capacity	60 Gallons
Melt Capacity	40 Gallons/Hour
Heat Transfer Oil Required	21 Gallons at 70° F.
Tank Construction	Double Boiler Type
Tank Opening Size	12" x 15"
Maximum Heat Input	Vapor Burner 180,000 BTU;s
Burner & Temperature Control	Automatic - Fail Safe
Engine - Kohler Model M8 - Propane Fueled	Single Cylinder 8 BHP @ 3600 rpm
Drive Mechanism	All Hydraulic with infinite speed on Mixer & Material Pump
Mixer	Full sweep mixer with 2 horizontal paddles
Axle	Single - 2,000 lbs. Capacity
Tires (2)	20.5x8x10 - 4 ply rating (1005 lbs. capacity each)
Dry Weight	Approximately 1,500 lbs.
Propane Bottles (1)	100 lbs.
Generator	2,000 Watt - 120 Volt
	∞

SUPER SHOT 60 MELTER OPERATING INSTRUCTIONS

INTRODUCTION

joint sealants. However, it will work equally well with all road asphalts and federal specification crack or The CRAFCO SUPER SHOT 60 Melter was developed to melt CRAFCO Brand Sealants.

DO NOT operate machine without following these instructions:

- Fill propane tank.
- 12 Check engine crankcase oil level (refer to Engine Operator's Manual).
- Ç Check hydraulic fluid level, at ambient temperature. correct level Add fluid if necessary to bring to
- 4 Check heat transfer oil level. dipstick. DO NOT overfill or spillage may occur when oil is heated & expands. At 70° F., the oil should be at the full mark on the
- S minimum setting. All toggle switches should be turned "OFF" and both temperature control dials
- Ġ, Remember that safe operation of this equipment is the operator's responsibility

CAUTION:

soled shoes, and eye protection. all bolts on all flanges after 100 hours. Tighten all bolts, nuts and screws every 250 hours Immediately replace any hose which shows any signs of wear, fraying or splitting. 400° F. and the hydraulic fluid may reach 200° F. Always wear protective clothing, hard Certain exposed parts of this machine, when operating, reach 500° F.; the sealant as high as careful and paying attention to details. Remember the propane flame is about 2200° F. Extreme care must be used when operating this equipment. Safety is the result of being Be sure that all joints and fittings are tight and leak proof.

MACHINE START UP

TO START BURNER

- Open LPG tank valve.
- 2. Open Line Valve at Cylinder
- 3. Start Engine Per Instruction Below.
- 4. Turn "ON" toggle switch at burner box. Follow directions on control box.
- Ś recommended temperature. Set hot oil temperature at 500° F. and material temperature at manufacturers
- 9 Turn on the hose controller when hot oil reaches approximately 300° F

STARTING THE ENGINE

should be depressed for approximately 2 seconds. Turn the ignition key to start position. Engine should start. If engine does not start, depress button again and try starting again. After engine starts, allow to warm up before using hydraulics or generator Depress the priming button on the SD zero flow regulator next to the LP bottle.

HEATED HOSE, WAND AND CONTROLLER

move or bend hose when cold. Damage may result. IMPORTANT!! Do not twist or kink hose. Avoid sharp bends and continuous twisting. Maintain minimum 10" bend radius. Do not exceed 400 degrees!! Do not NOTE!! The hose must be up to temperature before dispensing can take place

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

at the lowest temperature setting possible temperature may be reduced to approximately 360 degrees. It is advisable to run the hose minutes. After the hose is hot, the light on top of hose controller box will turn off and the approximately 400 degrees. The hose will come up to temperature in approximately 30 Turn the hose controller to the "ON" position. Adjust the temperature dial to

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

STARTING THE MIXER

switch to "ON". mixer shaft causes hydraulic oil to over heat and machine damage could occur. hydraulic panel mixer does not start with melter lid open. When the sealant material reaches a liquid state, engage the mixer by moving the toggle If the mixer does not move, allow material to heat longer. Set the mixer speed using the flow control on Remember, Jamming of

DISPENSING THE MATERIAL

BEFORE OPERATING. OPERATING OR FILLING THIS SHIELD PROTECTIVE CLOTHING, GLOVES, HARD SOLED SHOES, AND OR SAFETY GLASSES SHOULD EQUIPMENT. READ ENTIRE MANUAL ΒE WORN NEW

dripping of material. into the crack. which shuts off the flow of material when the pump is turned off and prevents excessive to dispense material. The wand is equipped with a disposable duckbill valve on the end When the material and the hose have reached proper application temperature, you are ready This valve also directs the material into a stream for easy application

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

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

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

INLET FILTER/STRAINER

strainer is attached to mixer and rotates when the mixer is turning. of this screen is required under normal operation. and other foreign material from entering and plugging the hose or pump. No maintenance The melter is equipped with an inlet filter/ material strainer at the material pump. The strainer keeps rocks

LOADING MACHINE

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

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

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

SHUTDOWN AND CLEAN-OUT PROCEDURE

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

- Turn the gas ignition control toggle switch "OFF"
- 2. Turn the hose controller to the "OFF" position
- ယ Store hose in hose hanger. damage will result Important!!! Do not kink or twist hose as permanent
- 4. Turn the mixer toggle switch to "OFF" position.
- 5. Turn the engine off at the engine key switch
- 6. Turn LPG off at line valve and valve at LPG bottle

STORING MACHINE

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

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

WARNING

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

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

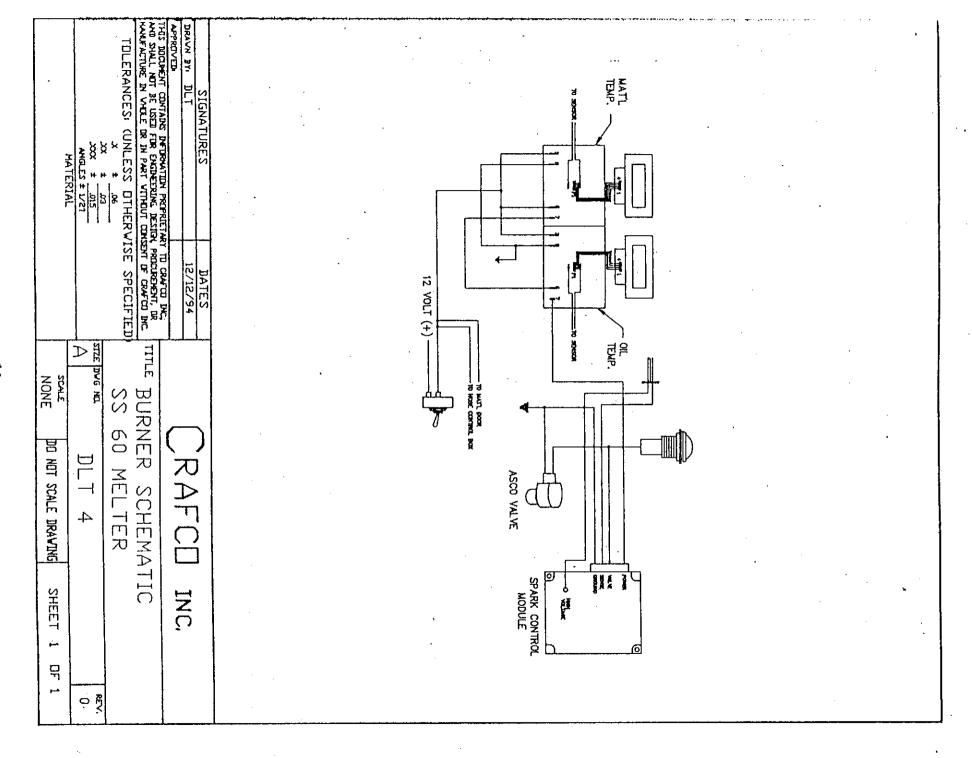
INSTRUCTIONS FOR ORDERING PARTS

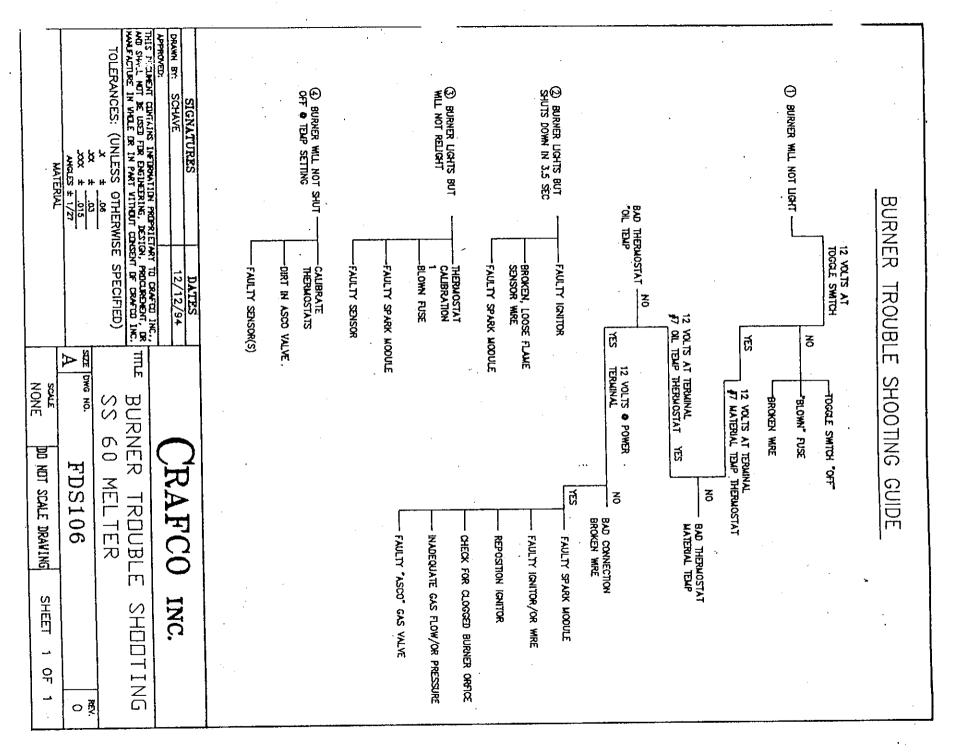
if a distributor is not available in your area. Parts may be ordered from your local CRAFCO distributor or directly from CRAFCO, Inc. information: When ordering parts, give the following

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

Write or telephone:

CRAFCO, Inc. 6975 West Crafco Way Chandler, AZ 85226 Phone: (602)276-0406 Toll Free: 1-800-528-8242





TROUBLE SHOOTING CHART

temperature.		
Set at recommended	Low Heating oil temperature.	
Make sure fluid level is correct.	Low heating oil level.	,
Repair/Adjust	pressure.	
solvent.	tank.	
Remove deposits and flush with	material on inside of material	
Allow machine to cool.	Build up of coked or crystallized	Slow heat up of sealant.
Allow to heat longer.	Hose not to temperature	pump material.
Continue to heat material.	Material cold, inlet still solid.	Pump rotates, but will not
more uquid material is available.	лиатела то лом лио pump.	moning nom appricator main.
Continue heating material until	Tank fluid level too low for	When applying sealant it stops
	foreign object lodged in pump.	
Replace/Remove.	Material pump damaged or	
nccessary.		
Reset pressure/check flow as	flow/pressure.	
Check hydraulic fluid level.	Inadequate hydraulic,	
	temperature.	
Continue heating material.	Material in tank not to operating	Material pump will not turn.
Turn Switch "ON".	Toggle Switch Turned off.	
necessary.		
Reset pressure/ check flow if	pressure.	
Check hydraulic fluid level.	Inadequate hydraulic flow/	
	time.	
Continue to heat material.	Too many blocks placed at one	•
Continue to heat material.	Sealant temperature too low.	Mixer will not rotate.
REMEDY	CAUSE	PROBLEM

SERVICE INSTRUCTIONS

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

MAINTENANCE INSTRUCTIONS

ENGINE:

change every 25 hours thereafter. Check oil every 8 hours of operation. Change after the first 5 hours of operation and

See engine owners manual for additional operating and maintenance instructions

HYDRAULIC SYSTEM:

Check hydraulic fluid every 8 hours. Check hydraulic fluid every 8 hours thereafter. operation. Change hydraulic filter after first 10 hours Change hydraulic fluid every 500 hours of of,

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

MAINTENANCE CHART

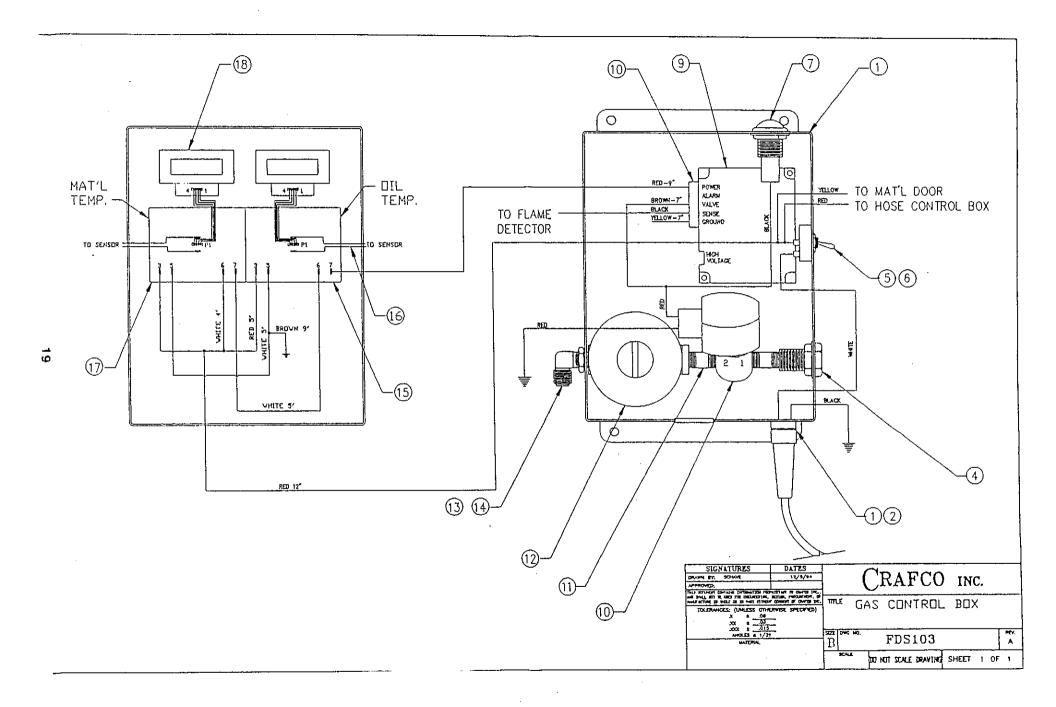
			ЮН	HOURS	
LOCATION	PROCEDURE	8	50	100	500
Engine Check Oil Level	See Engine Instruction Manual.	*			
Other Engine	See Engine Operating &		<u></u>		
Maintenance .	Maintenance Instructions.				
Battery	Check Water Level Weekly.				
Heat Transfer Oil	Check (every 8 hours)		*		
	Change	After 50	After 500 hours or 1 year	r l year	
Hydraulic Oil Return	First change. (10 hours)	*			
line filter	Subsequent changes. (250 hours)			*	
Hydraulic Oil	Check Oil (every 8 hours)	*			
	Change Oil (every 500 hours)				*
	For proper oil, see recommended				
	minds of inormatics, page 10.				
Wheel Bearings	Clean & repack using good grade	Every 2	4,000 mile	Every 24,000 miles or every two	OWED
	of bearing grease.	years.			
Tongue Jack	Grease, using good grade of	Once a Year.	Year.		
	bearing grease.				

RECOMMENDED FLUIDS & LUBRICANTS

21 gal.	Regal R&O 68	Heat Transfer Oil
10 gal.	RONDO Oil-HD-68 Texaco	Hydraulic Oil
100 lbs.	Propane	LPG
2 Qts.	Refer to Kohler Owners Manual.	Engine Oil
FULL POINT	RECOMMENDED	APPLICATION

GAS CONTROL MODULE

19	18	17	16	15	14	13	12		10	9	8	7	6	5	4	دی	2		Number
Temperature Control Knob	Digital Readout	Pacstat Control (200-400)	Temperature Probe	Pacstat Control (150-550)	90° Pipe Elbow	3/8 Female Reducer	Regulator Assembly	1/4" Close Pipe Nipple	Gas Solenoid Valve	Wiring Harness	Gas Control Module	Indicator Light	Rubber Boot	Toggle Switch	Bulkhead Coupling	1/2" Conduit Lock Nut	Strain Relief	Control Box	<u>Description</u>
50593 (2)	50251 (2)	43397	43392 (2)	43391	29871	29850	25087	28043 (2)	25236	50559	50558	24140	50720	50719	29830	50280	50714	43389	Part Number

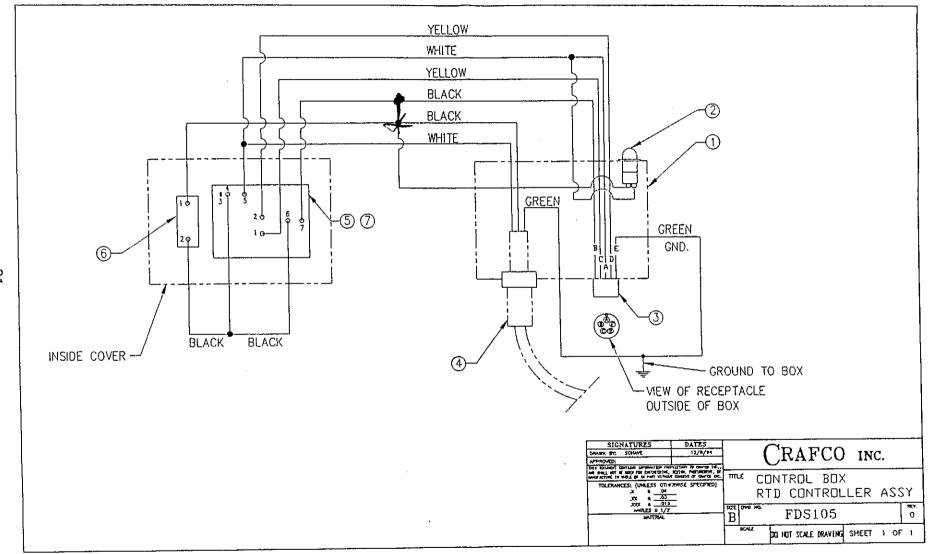


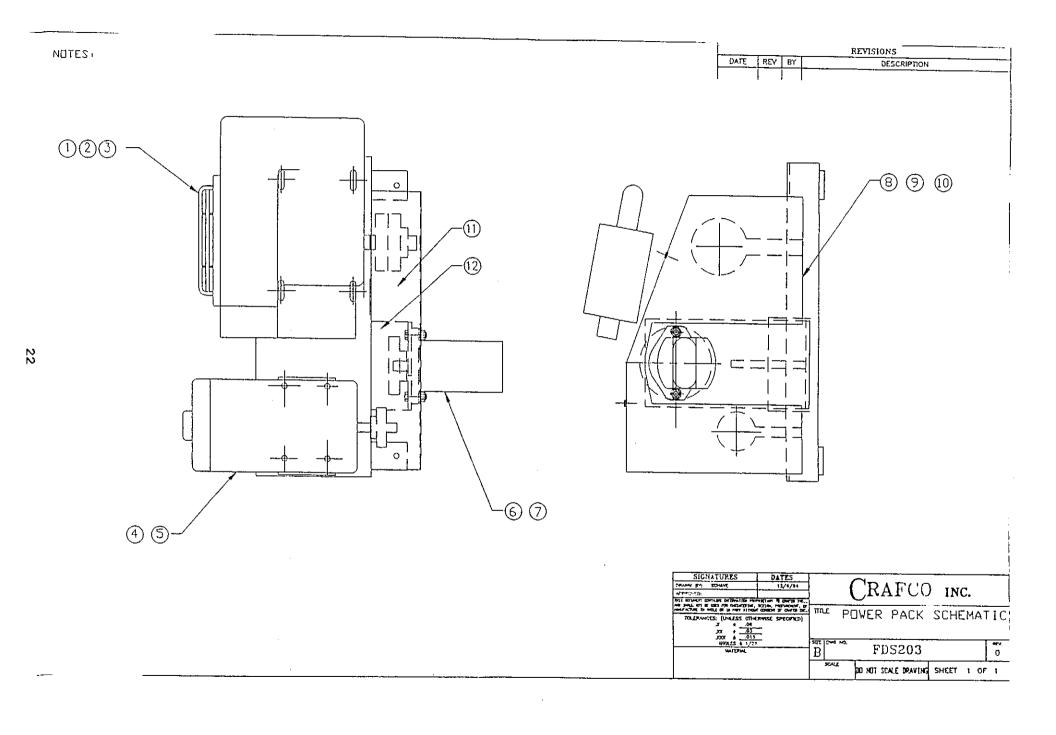
HOSE CONTROLLER

7	6	5	4	(L)	2		Number
Controller	Circuit Breaker	Temperature Control Knob	Strain Relief	Connector	Indicator Light	Enclosure Box	<u>Description</u>
50591	50217	50593	50714	50215	50219	50589	Part Number

POWER PACK SCHEMATIC

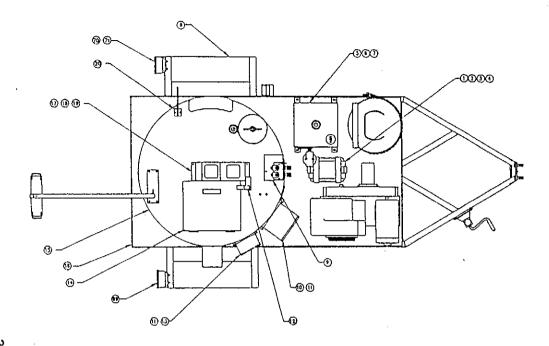
Number	Description	Part Number
1	8 HP Engine	41386
2	1" Pulley	50084
ယ	Key	27017
4	2 KW Generator	50004
5	5/8" Pulley	43364
6	Hydraulic Pump	43386
7	Pulley	43376
8	Front Belt Guard	43378
9	Rear Belt Guard	43379
10	Mounting Plate Assembly	43381
	Drive Belt (Hydraulic Pump)	43377
12	Drive Belt (Generator)	50086

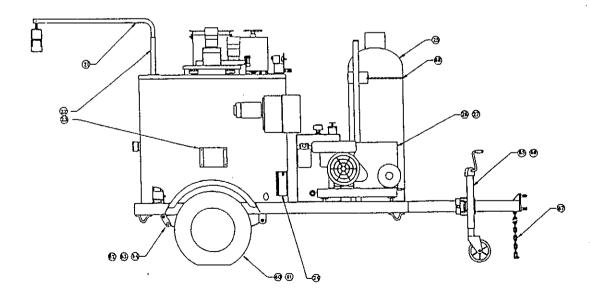


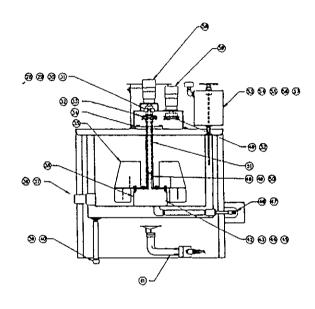


20270	I Fipe Cap	40
28152	1" x 12" Long Pipe Nipple	39
43335	Strainer Assembly	38
28273	2" Pipe Cap	37
28060	2" x 5" Long Pipe Nipple	36
43325 (2)	Paddle Assembly	35
50012	Bearing 2" Flange	34
43321	Chain	33
43322	Sprocket	32
23030	Chain Connecting Link	31
26016	Sprocket Chain	30
31368	Key 1/4 x 1/4 x 7/8	29
26002 (2)	Sprocket	28
1 ~	ISO Mount	27
43380	Power Pack Complete	26
25118	LPG Bottle	25
43333	Burner Door	24
43399	Heat Guard	23
50847	Boom Mounting Base	22
43358	Hose Boom	21
43373	Wand Bracket	20
43307	Chain Guard	19
43352	Chain Guard	18
43345	Motor Mounting Bracket	17
43301	Frame Assembly	16
43314	Modified Top Cover	15
43338	Lid Assembly	14
50030	Hose Temperature Control	13
39608	Switch	12
50074 (4)	Mounting Spacers	11
43390	Gas Control Box	10
43367	Hydraulic Valve Bracket	9
40120 (2)	Fender Assembly	8
41162	Hydraulic Dipstick	7
26025	Air Breather	6
41520	Hydraulic Tank Assembly	5
29396	Battery Cable (+)	4
37038		3
37620	12 Volt Battery	2
24003	Battery Box	
Part Number	Description	Number

71	70	69	89	67	66	65	2	63	62	61	60	59	58	57	56	55	4.5	53	52	51	50	49	48	47	46	45	44	43	42	41	
																															Number
License Plate Bracket	LH Tail Light	RH Tail Light	Black Knob	Safety Chains	Jack Bracket	Swivel Jack	Pivot Link	Locking Nut	Bolt For Axle	Tire Assembly With Rims	Axle Assembly With Springs	Mixer Hydraulic Motor	Material Pump Hydraulic Motor	1/2" - 90° Street Elbow	3/4" x 3" Long Pipe Nipple	Hot Oil Dipstick	Air Breather	Overflow Tank	Sprocket	Mixer Shaft	3/16 Square x 7/8 Long Key	1/4 x 1/4 x 7/8 Key	Pump Drive Shaft	1/2" x 4" Long Pipe Nipple	90° Swivel adapter Fitting	Pump Gear Set (Both Gears)	Top Pump Plate	Center Pump Plate	Bottom Pump Plate	Burner Assembly	<u>Description</u>
26099	24023	24022	26032	40121 (2)	40106	ł	23075 (2)	_	_	40873 (2)	40100	22027	40863	28238	28027	43374	26025	43355	43323	43340	40084	31368	43324	28037	50870	43353	43363	43362	43361	43299	Part Number







PARTS NOT SHOWN

50005 (I) HEATED HOW - 13 FT.
50014 (I) HEATED WAND - 42

HYDRAULIC PIPING SEQUENCE - E-Z POUR 60 GAL. PUMPER

L. HYDKAULIC	L. HYDRAULIC RESERVOIR TO HYDRAULIC PUMP (SUCTION)
1 29878	90° Elbow 3/4 NPT x 3/4 Tube
1 29512	Hydraulic Hose Assembly 3/4 x 24" Long
1 29916	90° Elbow 1-1/16-12 O-Ring

۲. ۲	LUKAULICE	2. HIDRAULIC FUMP TO CONTROL VALVE
1	29884	Straight O' Ring Reducer
1	29845	90° Male Elbow
1	29513	Hydraulic Hose Assembly, 3/8 x 57" Long
1	29868	90° Elbow

 3. H	YDRAULIC P	3. HYDRAULIC PUMP CASE DRAIN TO RESERVOIR
 _	9848	90° Swivel Adapter
 -	40187	Hydraulic Hose Assembly 3/8 x 18" Long
 _	40322	90° Adapter

Γ	T -	T.
1 40187	1 40311	1. HYDRAULIC V
Hydraulic Hose Assembly 3/8 x 18" Lone	Str. Adapter 9/16-18 O-Ring (2)	4. HYDRAULIC VALVE TO MIXER HYDRAULIC MOTOR

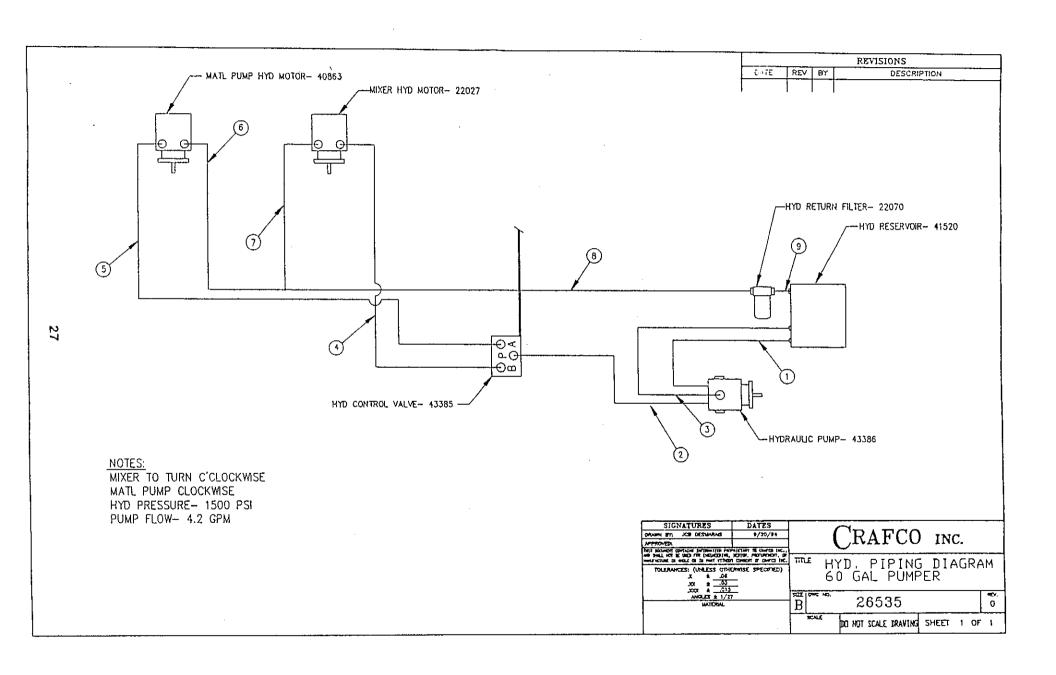
Adapter	29828	<u> </u> -
(A2) 40012 Hydraulic Hose Assembly 3/8 x 24" Long	(A2) 40012	-
Straight Adapter 9/16-18 O King	TTCOF	٠ ,
Chairle Address of the Control of th	10311	 -
5. HYDRAULIC VALVE TO MATERIAL PUMP HYDRAITIC MOTOR	YUKAULIC V	y. L

6. HYDRAULIC	HYDRAULIC MOTOR (MATERIAL PUMP) TO BUI KHEAD
1 29828	Elbow [,]
1 40012	Hydraulic Hose Assembly 3/8 x 24" Long

7. HX	DRAULIC M	7. HYDRAULIC MOTOR (MIXER) TO BULKHEAD
1	22029	Fitting
,	29597	Hydraulic Hose Assembly 3/8 x 12" Long
]	(A1) 29880	(A1) 29880 3/8 90° Swivel Adapter

.×	BULKHEAD TO	8. BULKHEAD TO HYDRAULIC RETURN FILTER
	29889	3/8 Tube Bulkhead Run Tee
	29890	3/8 Bulkhead Nut
,_	29880	3/8 Swivel Elbow
	40012	Hydraulic Hose Assembly 3/8 x 24" Long
	29876	Elbow Adapter
<u></u>	28350	Reducer Bushing 1 NPT x 1/2 NPT

-	7-	_
-	9. F	4
28005	FILTER TO RESERVOIR	
Nipple 1" Close	ESERVOIR	
lose		



LPG PIPING SEQUENCE E-Z POUR 60 GAL PUMPER

1. 1	PG TANK TO	1. LPG TANK TO REGULATOR
L	25066	Regulator
-	25123	Tank Spud
<u>. </u>	29195	1/4 Ball Valve
-	29857	Adapter 45°
1	25146	Propane Hose Assembly, 3/8 x 23" Long
-	29839	Straight Adapter
1	(A1) 28251 1/4 Tee]/4 Tee
1	28001	1/4 Close Nipple
_	25087	Regulator

2. R	EGULATOR 7	2. REGULATOR TO GOVERNOR
,	28342	3/8 x 1/4 Reducer Bushing
_	28012	1/4 x 1-1/2 Pipe Nipple
_	28251	1/4 Tee
1	(B) 28012	(B) 28012 1/4 x 1-1/2 Pipe Nipple
1	(A3) 28281	(A3) 28281 1/4" Pipe Plug
Ţ	25086	Zero Governor (On Tank & Frame)
:		

3. G	OVERNOR TO	GOVERNOR TO PROPANE ENGINE
1	29875	Elbow Adapter
1	29585	LPG Fuel Line 3/8 x 37" Long
2	26079	Gear Clamp

4. CI	ROSS IN LINI	4. CROSS IN LINE (1) TO CONTROL BOX
1	29839	Straight Adapter
1	25146	LPG Fuel Line 3/8 x 23" Long
1	29839	Straight Adapter

,	Ċ
(A2	CONT
(A2) 25128 LPG Fuel Line 3/8 x 23" Long	5. CONTROL BOX TO PROPANE BURNER
8 LPC	OX TO
Fuel I	PROP
ine 3/8	ANE B
x 23" I	VE BURNE
"Long	NER

