

E-Z POUR 100 MELTER WITH PUMP/APPLICATOR

This manual is furnished with each new CRAFCO E-Z POUR 100 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 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.

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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 LPG 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. 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 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 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 will cause the Warranty Claim to be voided.

- (1) Indicate to CRAFCO's Customer Service Representative by telephone or letter that the order being placed is a WARRANTY CLAIM.
- (2) Indicate to the CRAFCO Customer Service Representative the type of equipment under warranty, serial number and a brief description of the warranty defect. A replacement part will be shipped when ordered F.O.B. Chandler, Arizona, and invoiced. A "Return Authorization Number" must be issued for proper processing of claim.
- (3) Return the defective part to CRAFCO within fifteen (15) days of the date the claim was called in: Indicate on B.O.L. packing slip or by letter the model number and serial number of the machine from which the defect is being claimed along with the part being returned and return authorization number. If the defective part is not returned to CRAFCO within the fifteen (15) day period or if the defect is determined by CRAFCO, Inc. to be due to normal wear and tear or misuse, the claim will be voided. The customer will be notified within ten (10) days of disposition of the claim. If the failure was caused by a defect in material or workmanship, a credit will be issued.
- (4) CRAFCO will honor NO warranty if parts are not supplied or recommended by CRAFCO.

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	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	Vapor Burner 180,000 BTU's
Burner & Temperature Control	Automatic - Fail Safe
Engine - Kohler Model M12 - Propane Fueled	Single Cylinder 12 HP @ 3600 rpm
Drive Mechanism	All Hydraulic w/ infinite speed forward & reverse action
Mixer	Full sweep mixer w/ 2 horizontal paddles
Axle	Single - 3,500 lbs Capacity
Tires (2)	7:00x14 - 6 ply rating (1430 lbs. capacity each)
Dry Weight	Approx. 2,600 lbs.
Propane Bottles (2)	100 lbs. ea.

E-Z POUR 100 MELTER OPERATING INSTRUCTIONS

INTRODUCTION

The CRAFCO E-Z Pour 100 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 following these instructions:

1. Fill propane tanks.
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.

MACHINE START UP

TO START

1. Fully open the Damper Vent Fig. A(1), Page 11.
2. Open L.P.G. Cylinder Valve Fig. A(2) and Line Valve (3), Page 11.
3. Set Temperature Dial to "OFF" Fig. B(4), Page 12.
4. Open Line Valve at Control Box Fig. B(5), Page 12.
5. Turn Temperature Dial to desired temperature setting B(4), Page 12. Burner should ignite within 4 seconds. Do not attempt to reset gas regulator pressure or machine/hose damage may occur.

CAUTION:

- If burner does not ignite in 4 seconds, L.P.G. is automatically shut-off. To reset, turn temperature dial to off (4). Allow accumulated L.P.G. fumes to vent, (at least 4 minutes), before attempting to relight. Turn temperature dial to desired setting (4). If burner still does not light, turn off L.P.G. at bottles (2) and determine cause of malfunction.
6. Start engine when heating oil reaches 450° . To start engine: press Choke-Primer button for approximately 2 seconds Fig. D (13), Page 14.
 7. Start Mixer when heat transfer oil reaches 450° by moving the mixer lever slowly either clockwise or counter clockwise Fig. C(6), Page 13. Do not allow heat transfer oil to exceed 525° F. Fig. A(14), Page 11.
 8. When sealant temperature reaches 350° F, open main tank valve Fig. C(7), Page 13.

9. Open recirculation valve Fig. C(8) and close application valve Fig. C(9).
10. Put sealant pump in reverse (suction) for approximately two minutes, Fig. C(10), Page 13.
11. Reverse sealant pump direction (pump) C(10) and circulate sealant back into tank.
12. When sealant reaches application temperature, Fig. C(12), Page 13, remove hose and wand from chamber. Attach wand to hose and insert wand in tank, Fig. F(15), Page 15.
13. Open applicator valve, Fig. C(9), Page 13 and hand wand valve on hose, Fig. F(16), Page 15. Close recirculation valve until desired flow is achieved, Fig. C(8), Page 13.

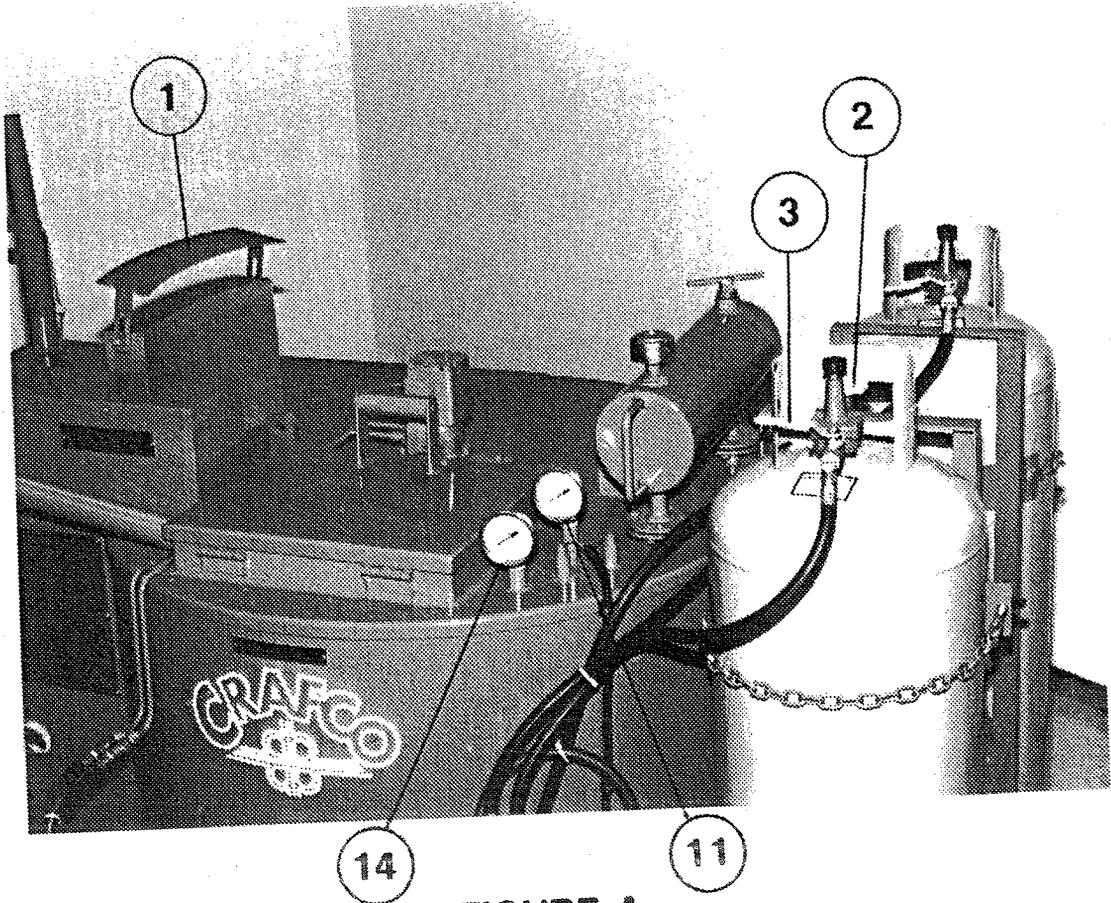


FIGURE A
START UP

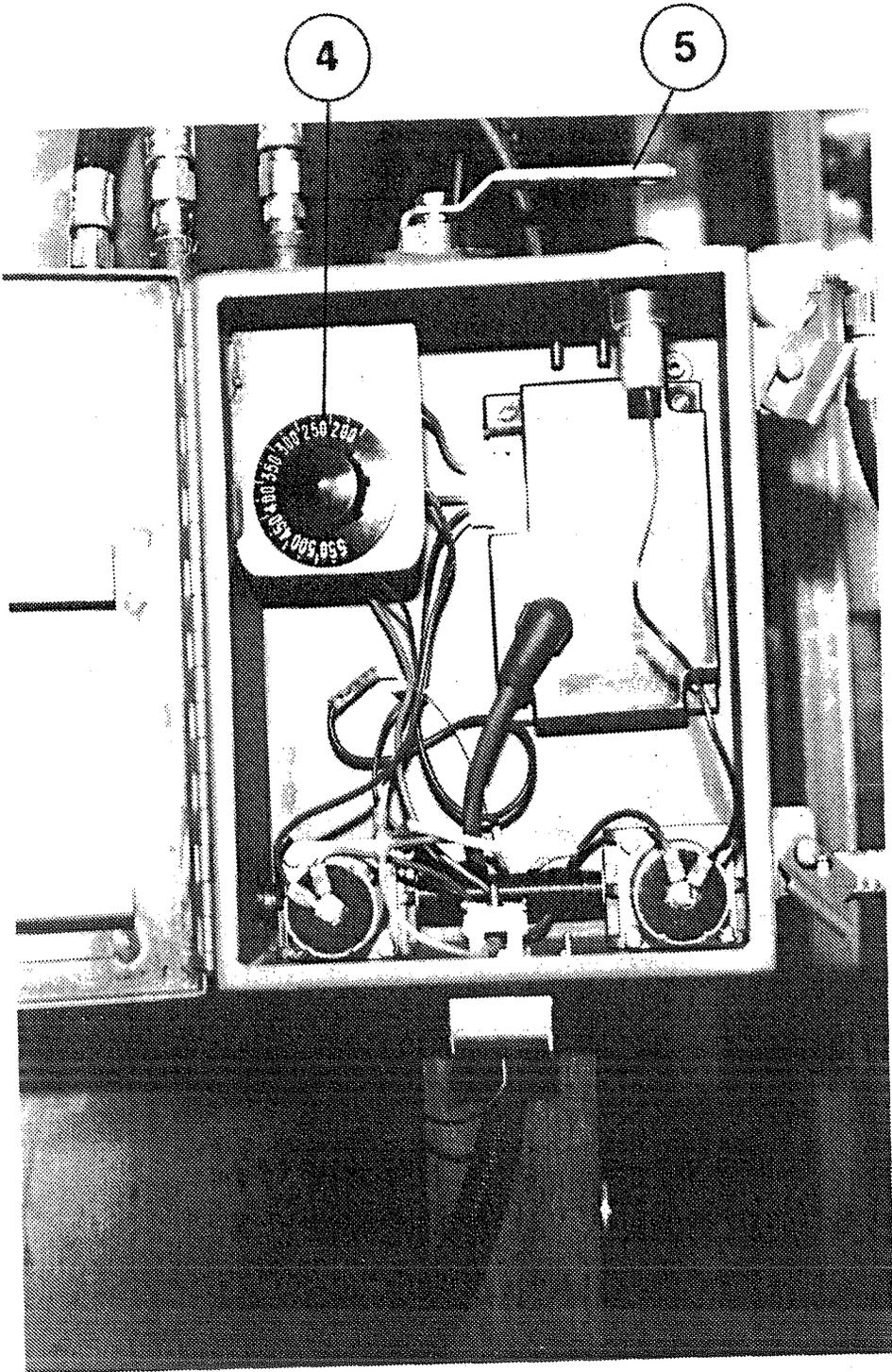


FIGURE B
START UP

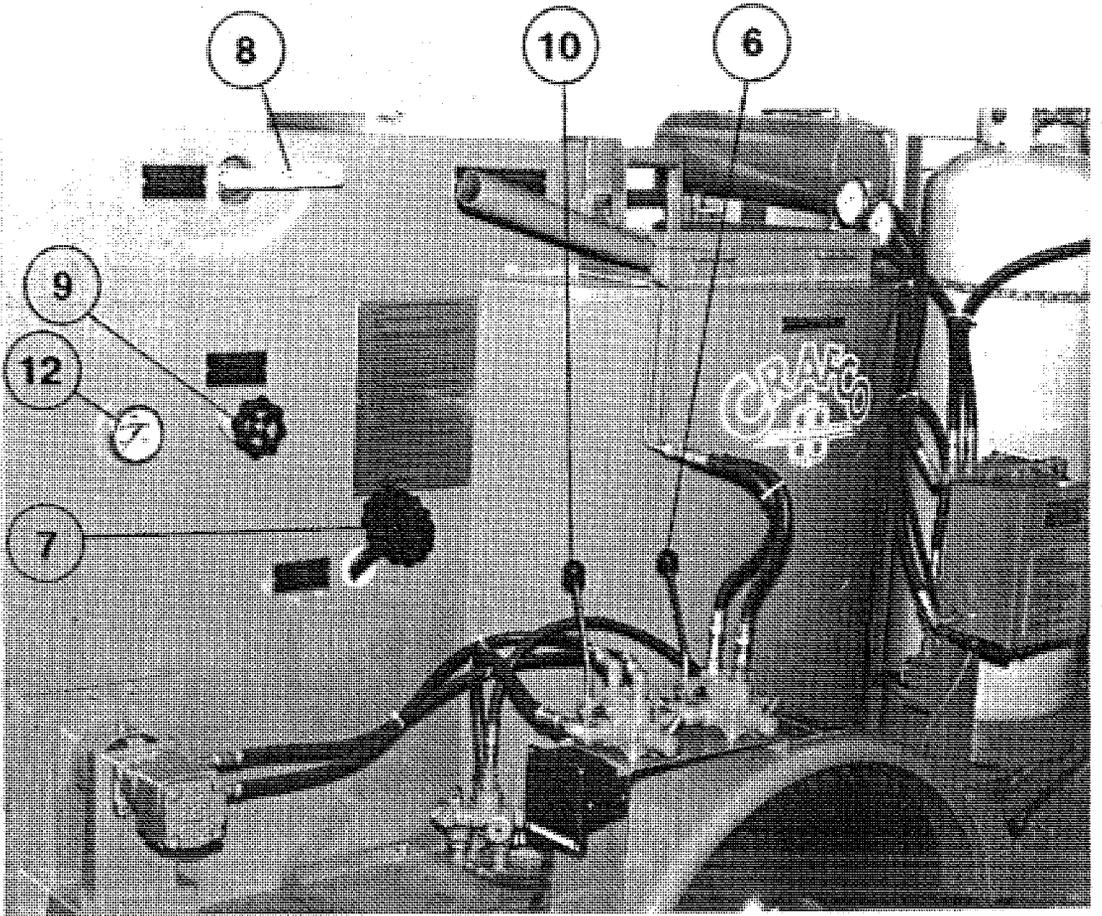


FIGURE C
START UP

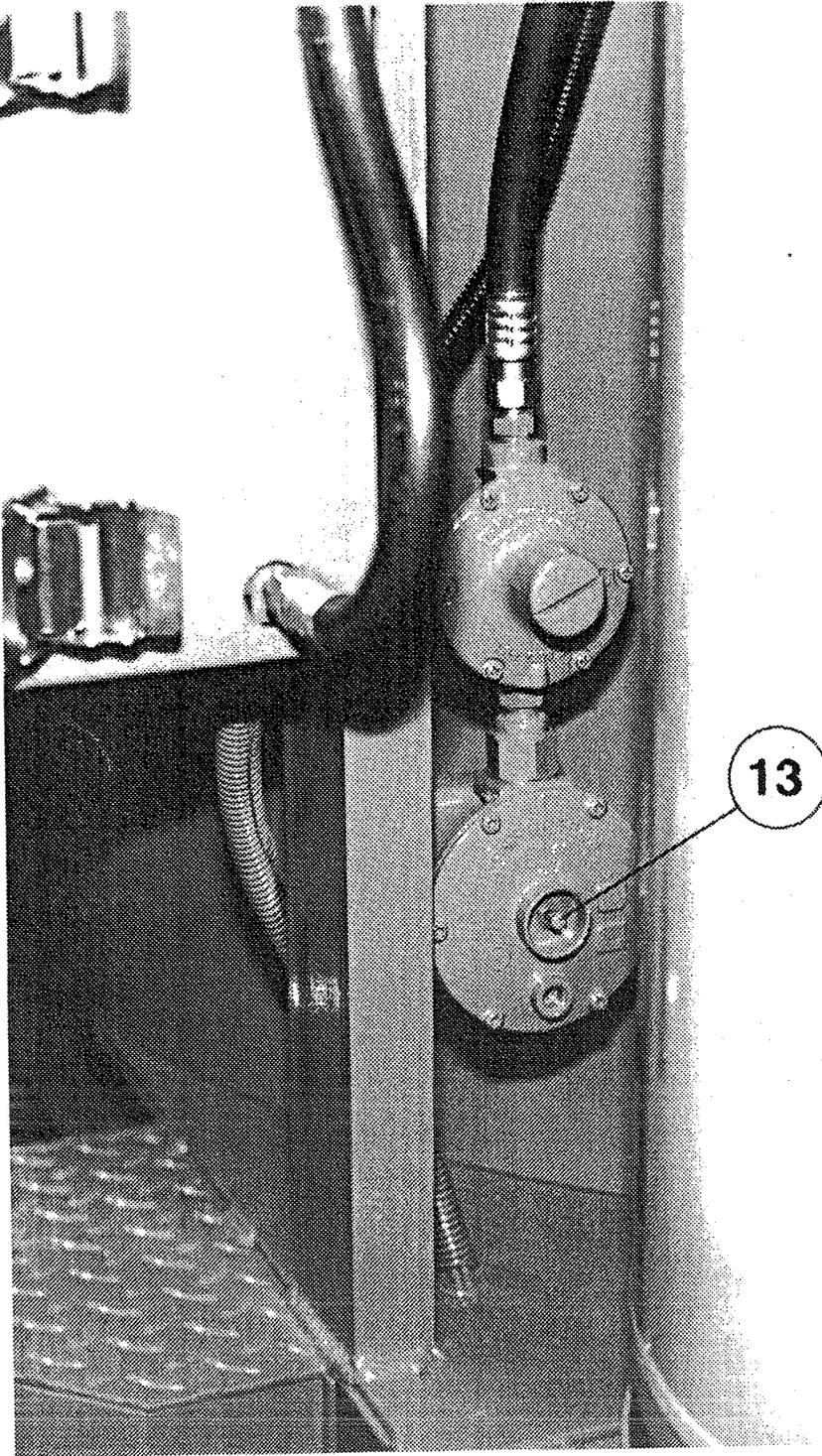


FIGURE D
START UP

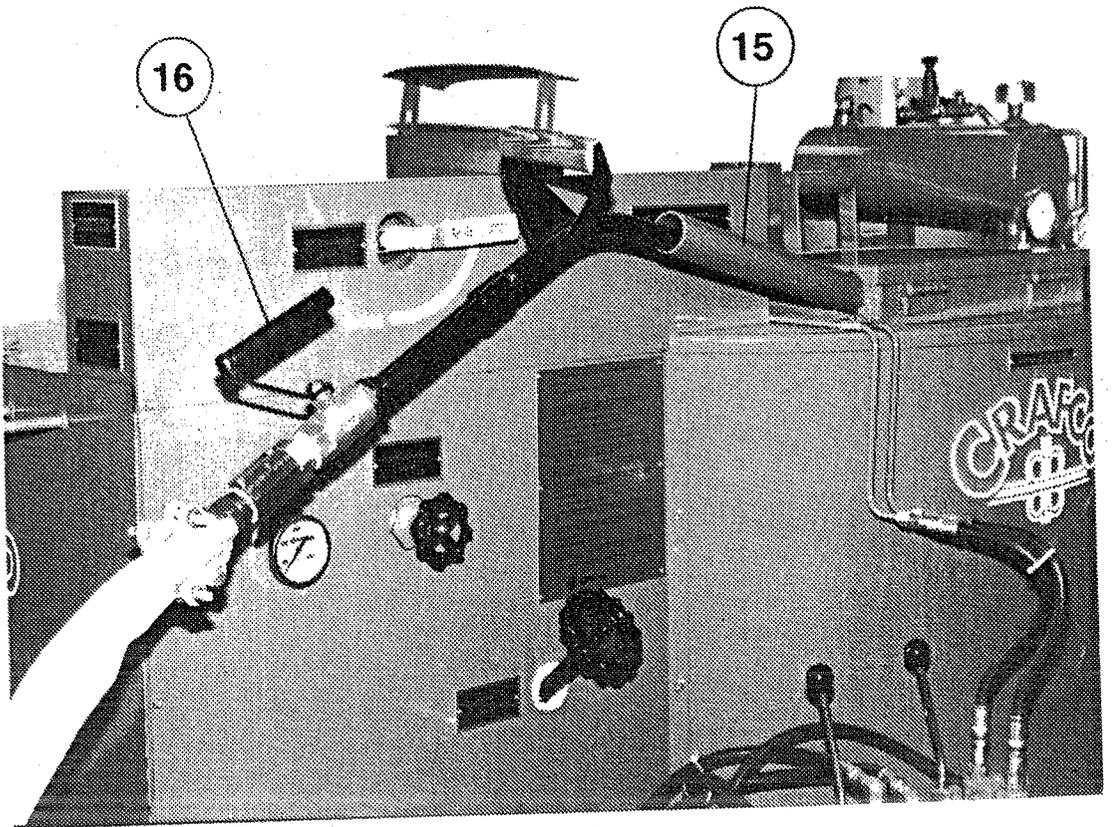


FIGURE F

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. 3(22), Page 30), registers the actual temperature of the heat transfer oil and it should coincide with the temperature control hand knob setting (Fig. 4(40), Page 31).

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 cut 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.

IMPORTANT:

When hand applicator is not in use, more than 2 minutes, place it into tank rear opening. Open hand applicator valve to keep hose warm and unobstructed.

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

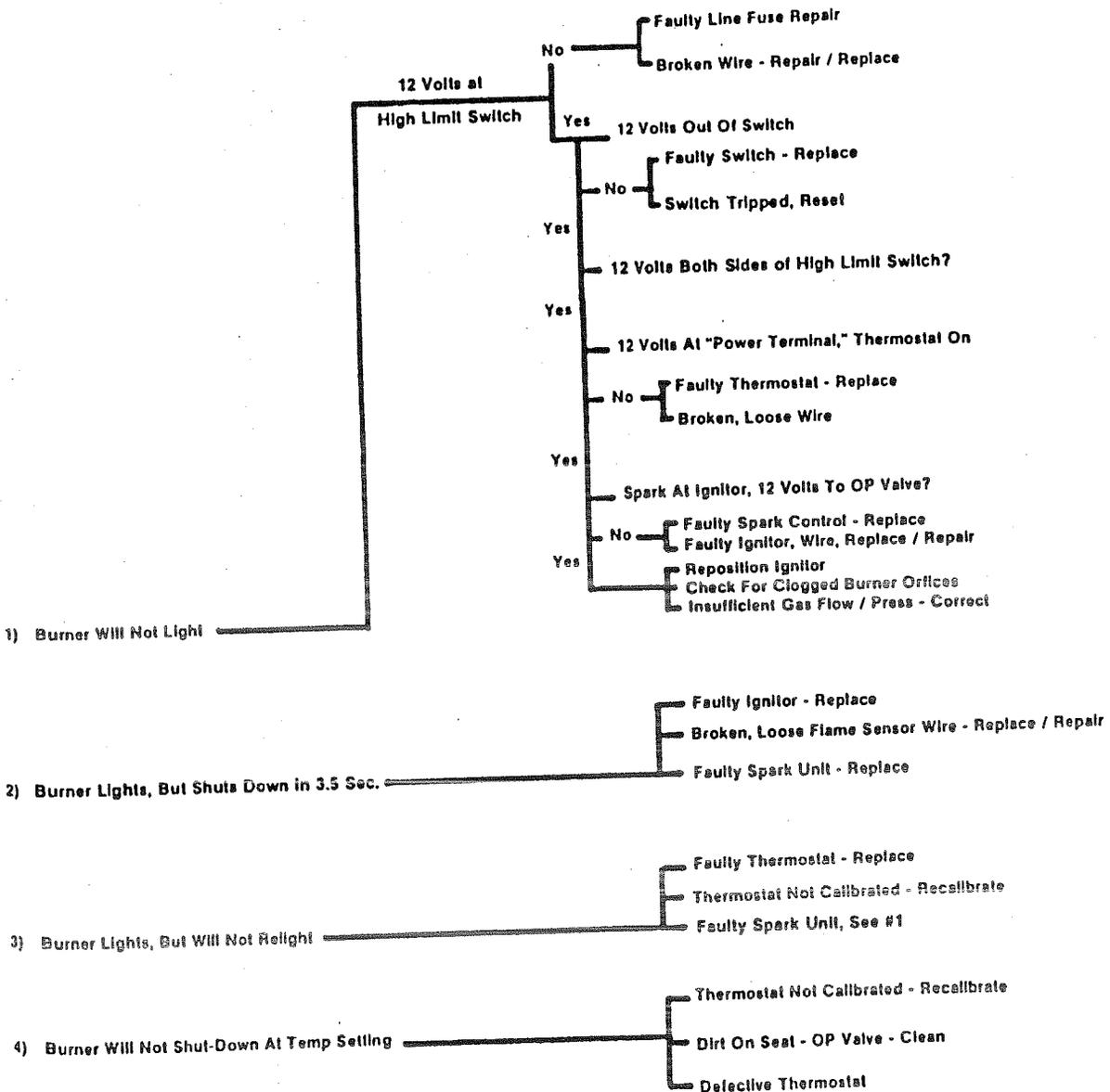
1. Turn temperature dial to off.
2. Return mixer to off position.
3. Close recirculation valves.
4. Put material pump in suction mode. Leave pump in suction mode for approximately 3 min. Close main tank valve.
5. Return pump to off position.
6. Turn off engine.
7. With hand applicator valve open disconnect wand and return hose to heat chamber. Then return wand to heat chamber.
8. Close applicator valve/open recirculation valve.
9. Close L.P.G. Line Ball Valves. Close L.P.G. Cylinder Valves.

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 to evaporate any moisture.

BURNER TROUBLE SHOOTING GUIDE



TROUBLE SHOOTING CHART

PROBLEM	CAUSE	REMEDY
Mixer will not rotate.	Sealant temp. too low.	Continue to heat material.
	Too many blocks placed at one time.	Continue to heat material & try 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 object lodged in pump.	Replace/Remove.
Sealant will not recirculate back into tank through recirculation valve.	Material in tank not to correct temperature.	Continue heating material.
	Drain valve closed.	Open valve.
	Material still cold in suction line. Recirculation valve closed.	Make sure compartment temp. is adequate to melt material. Open valve.
Sealant material flows through recirculation valve but will not flow through application hand wand.	Application valve not open.	Open valve.
	Recirculation valve still open or damaged internally.	Close valve or replace.
	Hose/wand still cold.	Leave in chamber until hot.

PROBLEM	CAUSE	REMEDY
When applying sealant it stops flowing from applicator wand.	Hand applicator valve was left in off position too long.	Heat hose by placing in heat chamber to liquify sealant.
	Too many blocks of material added to tank.	Heat hose by placing in heating chamber to liquify sealant.
	Cold material entered pump & stopped flow.	
	Tank fluid level too low for material to flow into pump.	Continue heating material until more liquid material is available.
Pump rotates, but will not pump material	Material pump worn or damaged.	Replace/Repair
	Pump rotating in wrong direction.	Reverse control lever.
	Foreign object lodged in inlet line to pump.	Dislodge by reversing pump or 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 material on inside of material tank.	Allow machine to cool. Remove deposits and flush w/ solvent.
	Burner not operating/low LPG pressure.	Repair/Adjust.
	Low heating oil level.	Make sure fluid level is correct.
	Low Heating oil temperature.	Set at recommended temperature.

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 27.
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 oil every 8 hours of operation. Change after the first 5 hours of operation and change every 25 hours thereafter.

See engine owners manual for additional operating and maintenance instructions.

HYDRAULIC SYSTEM:

Check hydraulic fluid every 8 hours. 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 25.

MAINTENANCE CHART

LOCATION	PROCEDURE	HOURS			
		8	50	100	500
Engine					
Check Oil Level	See Engine Instruction Manual.	*			
Other Engine Maintenance	See Engine Operating and Maintenance Instructions.				
Battery	Maintenance Free				
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 hrs) Change		*		
				after 500 hours or 1 year	
Hydraulic Oil	First change.	*			
Return line filter	(10 hours) Subsequent changes. (250 hrs)			*	
Hydraulic Oil	Check Oil (every 8 hrs) Change Oil (every 500 hrs)	*			*
	For proper oil, see recommended fluids & lubricants, page 26.				
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 1/4") 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 1/2 turn. Do not cock the packing gland. (This could cause binding or heating of the shaft).

Operate the pump under normal conditions & after a short run-in period, examine packing for leakage. If leakage is excessive, tighten locknuts evenly at 1/2 turn intervals until there is only slight leakage from packing rings.

RECOMMENDED FLUIDS & LUBRICANTS

APPLICATION	RECOMMENDED	FULL POINT
Engine Oil	Refer to Kohler Owners Manual.	2 QTS.
LPG	Propane	200 LBS.
Hydraulic Oil	RONDO OIL-HD-68 Texaco	10 GAL.
Heat Transfer Oil		27 GAL.

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

<u>Producer</u>	<u>Product Name</u>	<u>Product No.</u>
Texaco	Regal	R & O 68
Gulf	Harmony	68
-Shell	Thermia	"C"
Exxon	Teresstic	68
Mobil	DTE Heavy Mediam.	
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	Ignitor	25277
1	Hydraulic Filter	22071
1	Air Filter	41523
1	Air Filter Pre-Cleaner	41524

INSTRUCTIONS 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 Crafcow Way
Chandler, AZ 85226
Phone: (602)276-0406 or 800-528-8242

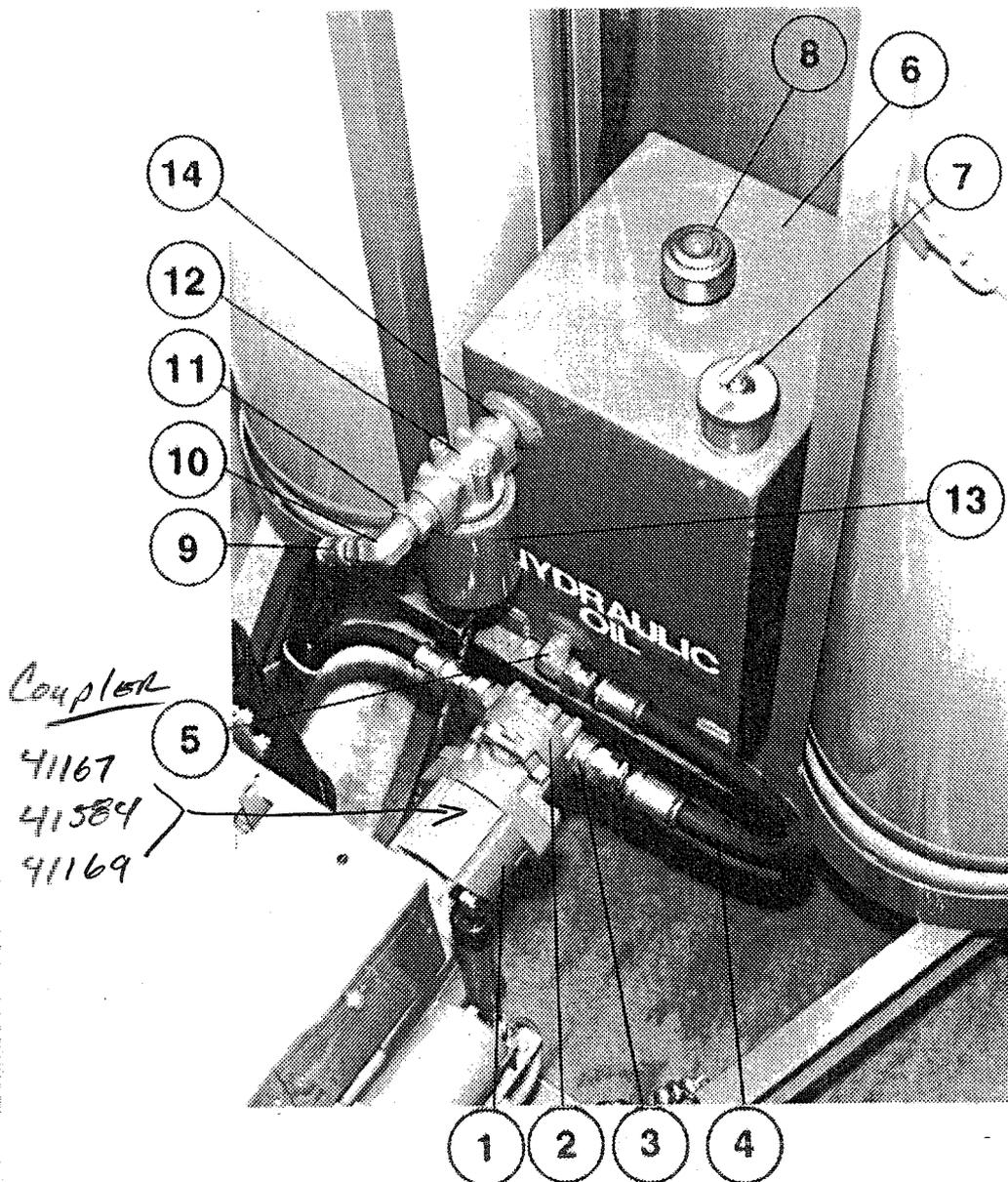


FIGURE 1

1.	41583	Hydraulic Pump Adapter
2.	41582	Hydraulic Pump
3.	29819	Hydraulic Fitting
4.	22101	Hydraulic Hose 3/4" x 23" Long
5.	29878	90° Fitting
6.	41520	Hydraulic Tank Assembly
7.	41162	Hydraulic Tank Dipstick
8.	26025	Air Breather
9.	29567	Return Hose
10.	29813	90° Fitting
11.	40318	Bushing
12.	22070	Filter Assembly
13.	22071	Hydraulic Filter (Element only)
14.	28005	1" Close Nipple

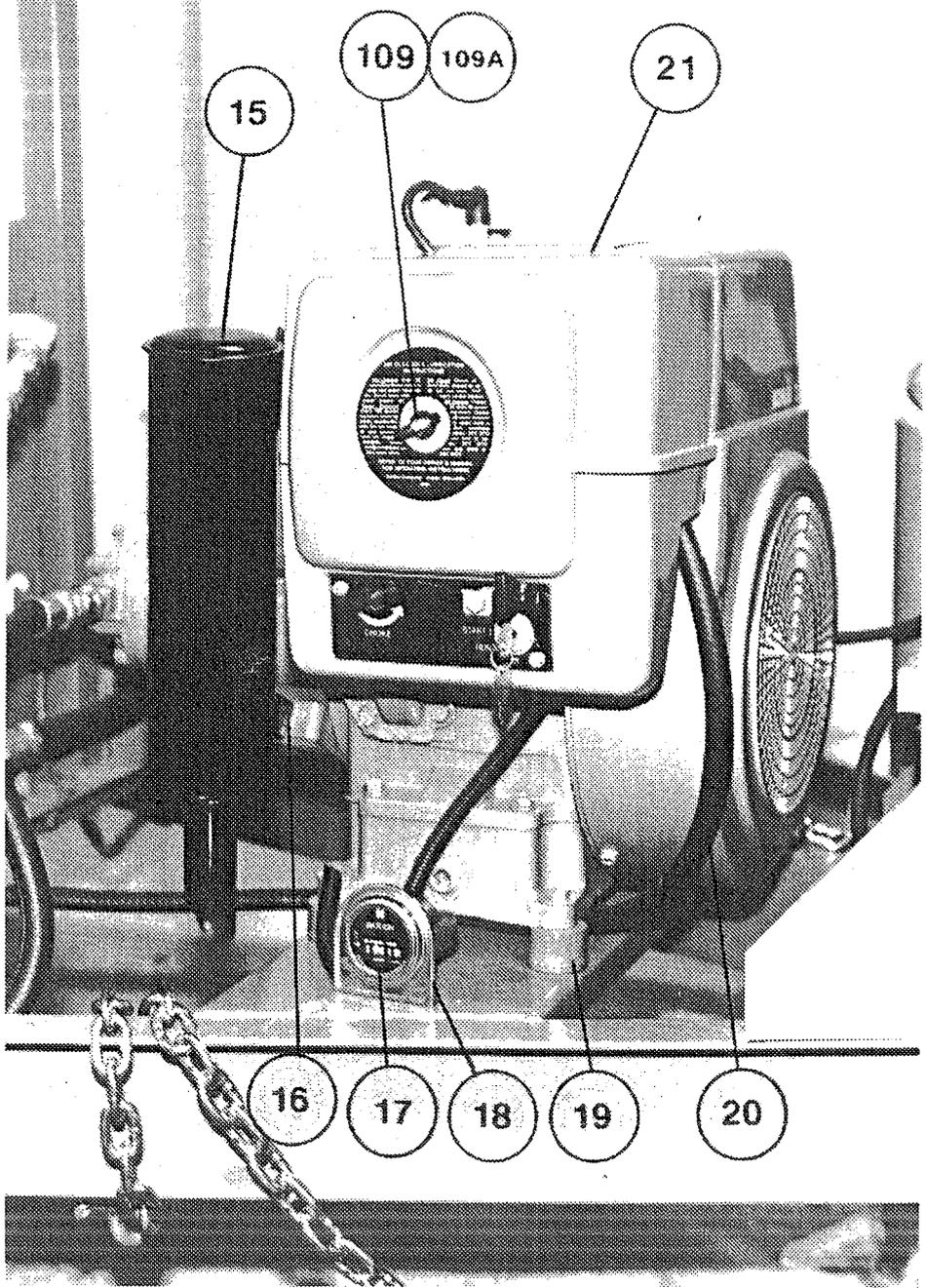


FIGURE 2

15.	41633	Muffler
16.	41640	Muffler Bracket
17.	24076	Hour Meter
18.	24077	Hour Meter Bracket
19.	41636	Isomount (4 Required)
20.	29589	L.P.G. Feed Hose
21.	41574	Kohler Engine 12hp. (L.P.G.)
109.	41523	Air Filter Element
109A.	41524	Pre-Cleaner Air Filter

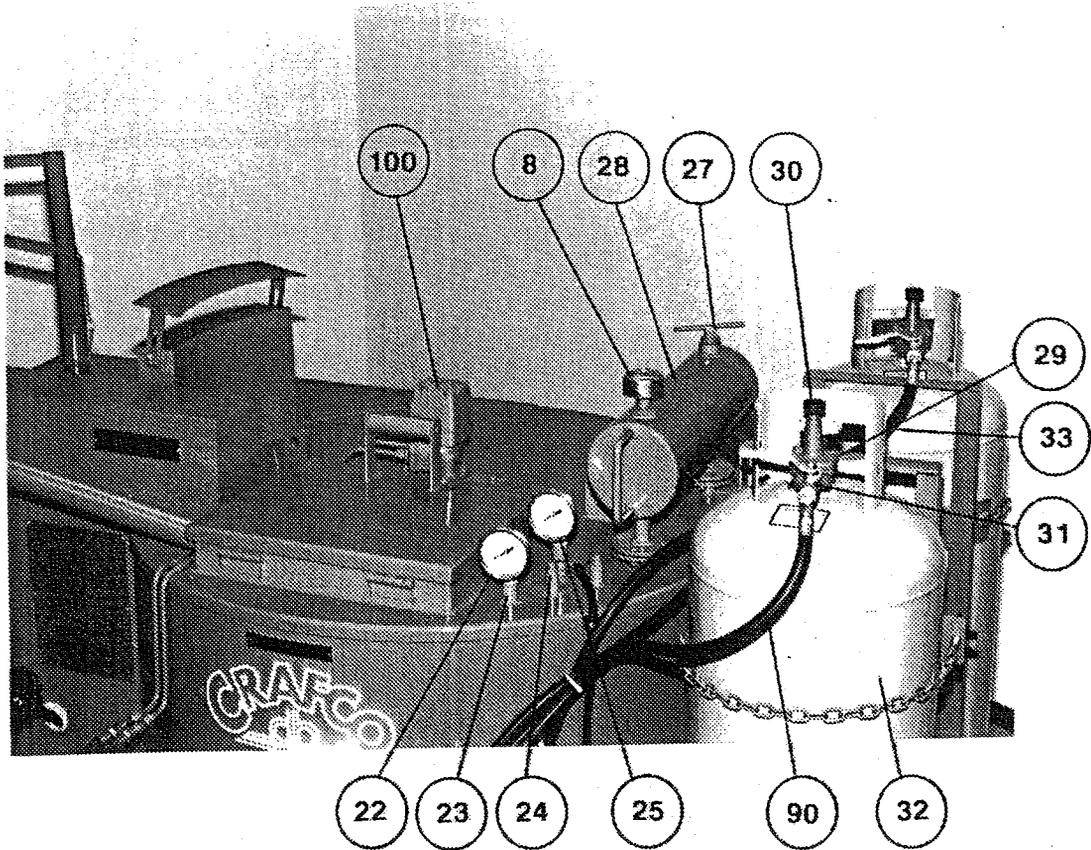


FIGURE 3

8.	26025	Air Breather
22.	41243	24" Temperature Gauge (HTO)
23.	28178	1/2" Coupling
24.	40078	12" Temperature Gauge (Material)
25.	25203	Stuffing Box (2)
27.	41199	Dip Stick
28.	41553	Overflow Tank
29.	25073	L.P.G. Regulator Assembly
30.	25066	Regulator only
31.	29195	1/4" Ball Valve only
32.	25118	L.P.G. Tank
33.	25141	L.P.G. Hose 3/8x44" Control Box to Tank
90.	25142	3/8" x 31" Hose
100.	41102	Mixer Hydraulic Motor

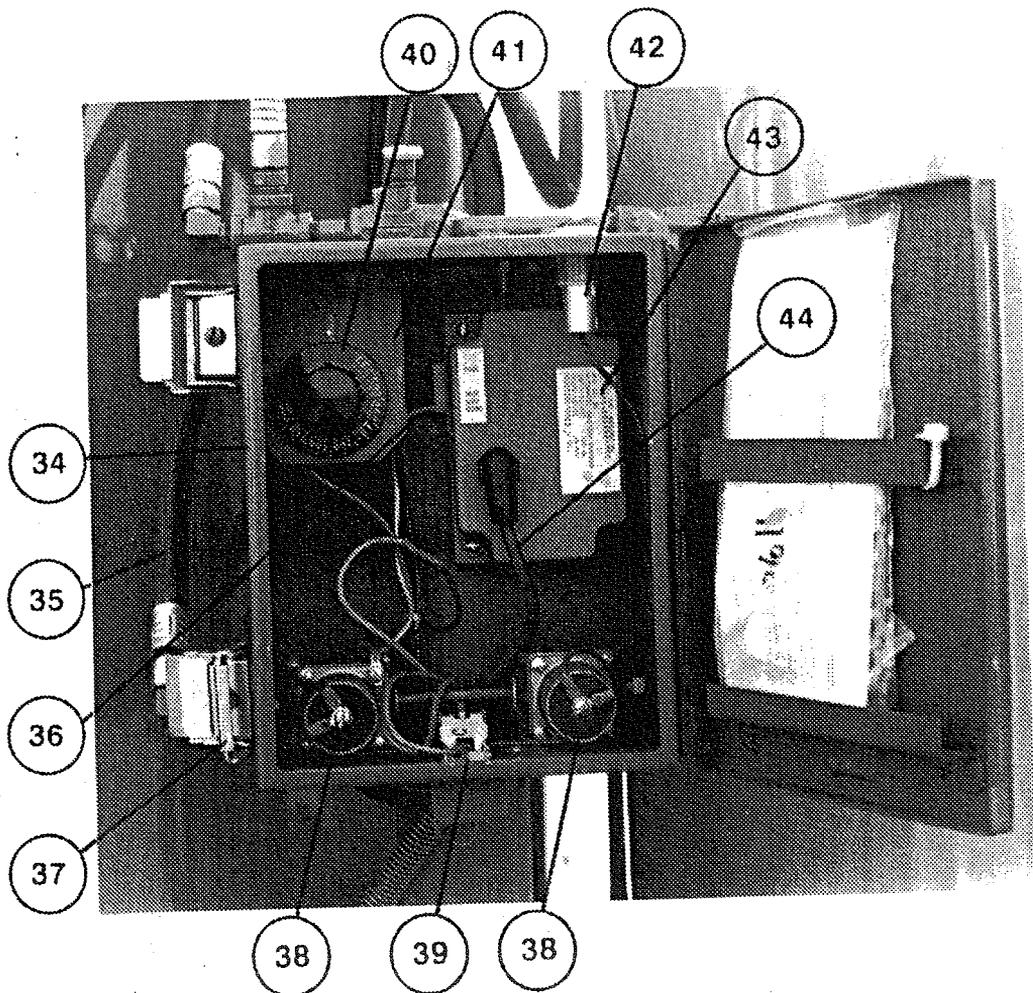


FIGURE 4

34.	25280	Control Box Complete	41698
35.	25138	Control Box To Burner Regulator	3/8x37"
36.	25262	Wire Harness (Inside Control Box)	25272
37.	25268	Control Box Clasp (2 Required)	
38.	25235	Servo Valve (2 Required)	
39.	25240	High Limit Switch	
40.	25220	Temperature Control Knob	
41.	25276	550° Thermostat	
42.	24140	Indicator Light	
43.	25278	Spark Control Module	
44.	41641	Wiring/Complete - To Ignitor	

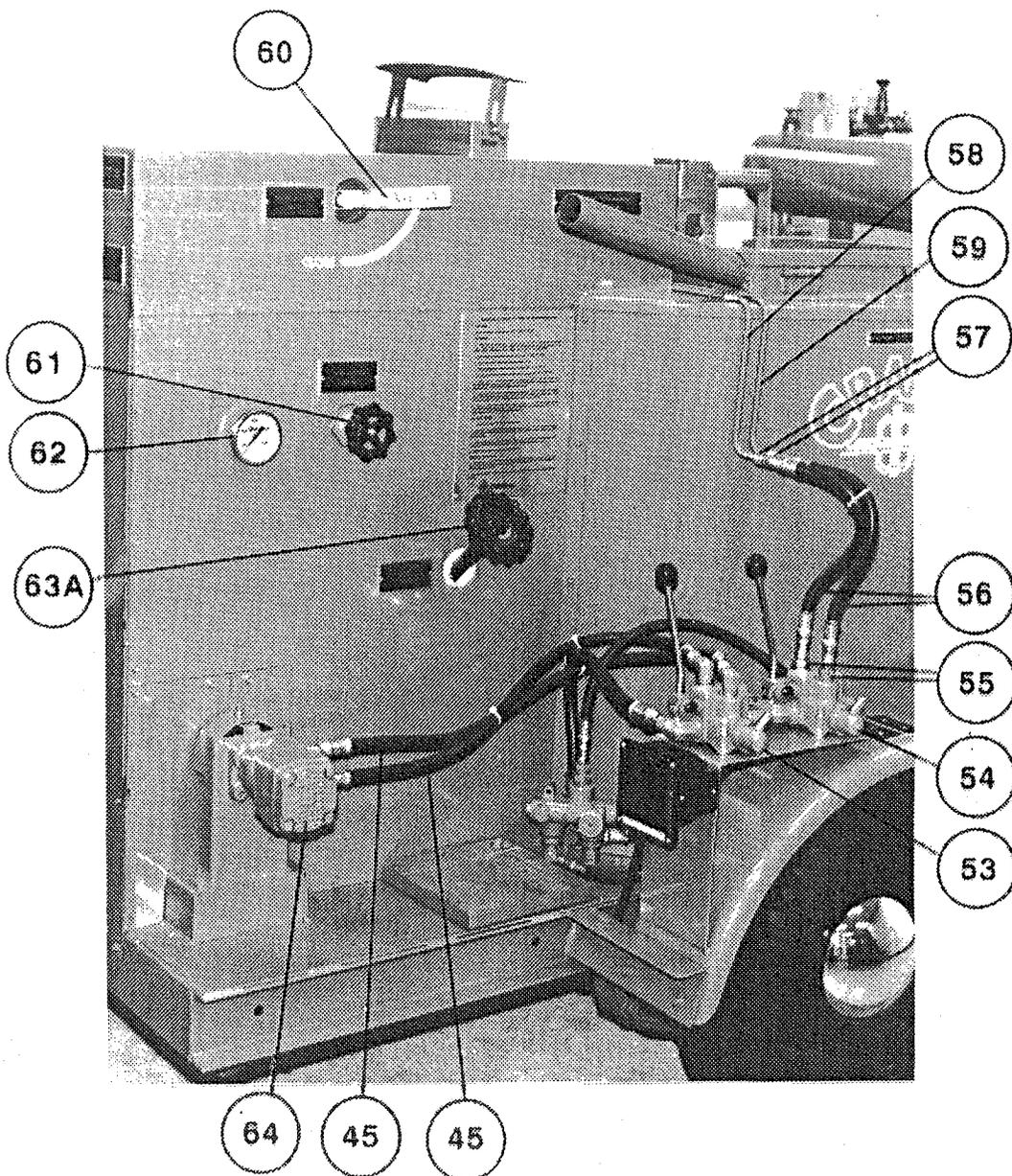


FIGURE 5

45.	29570	3/8 x 34" Hose (2 Required)
53.	41092	Material Hydraulic Valve
54.	41093	Mixer Hydraulic Valve
55.	29841	Connector (2 Required)
56.	40187	3/8 x 18" Hose (2 Required)
57.	29808	Connector (2 Required)
58.	41550	L.H. Tube Assembly
59.	41551	R.H. Tube Assembly
60.	41246	Recirculation Valve
61.	29270	Bronze Gate Valve
62.	25050	2-1/2" Temperature Gauge
63A.	41268	Valve Handle Extension
64.	22027	Hydraulic Motor - Material Pump

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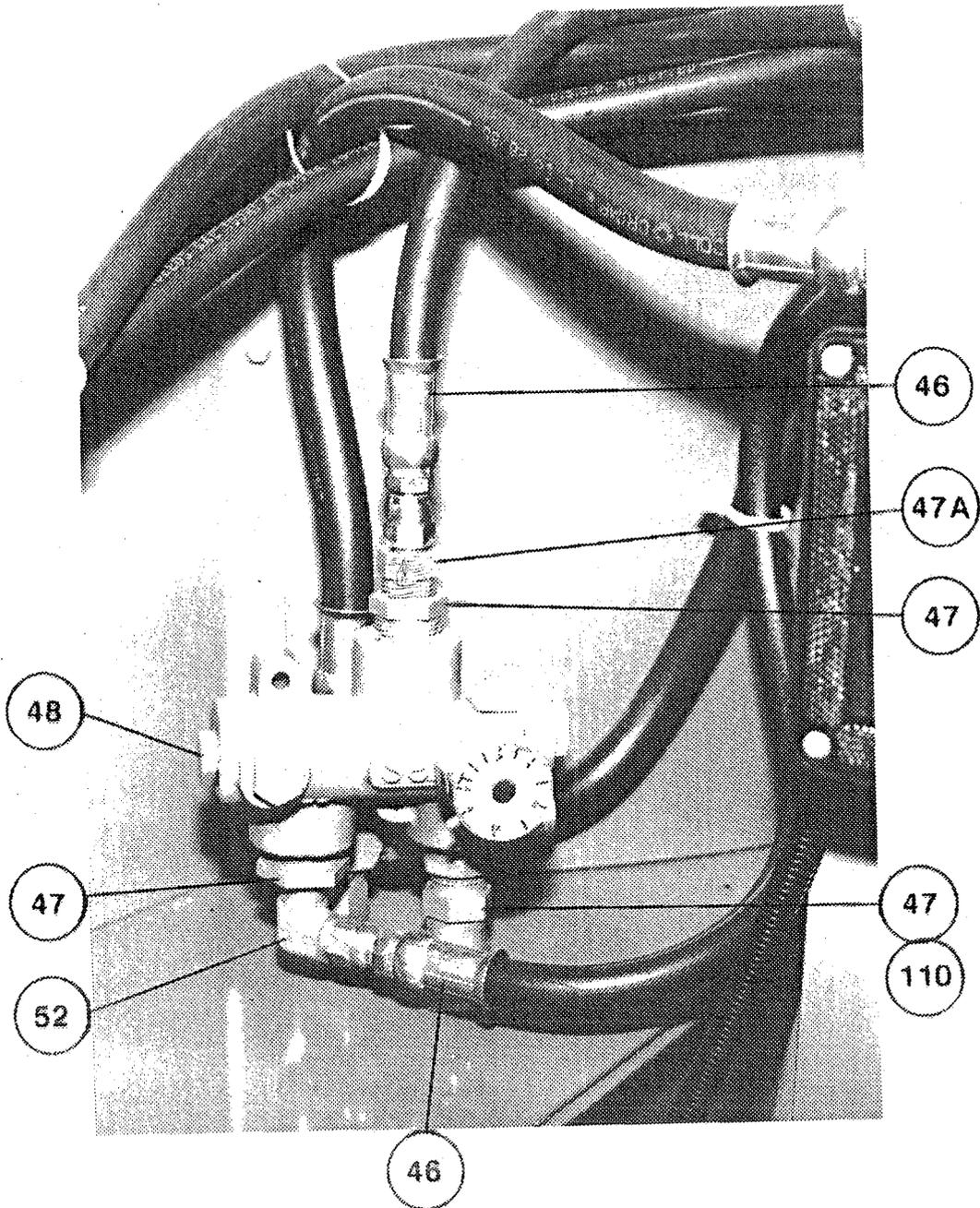


FIGURE 5A

46.	40012	3/8 x 24" Hose
47.	28348	Bushing 3/4 NPT x 1/2 NPT
47A.	29841	Connector 1/2 NPT x 3/8 Tube
48.	41573	Flow Divider
52.	29876	90° Fitting 1/2 NPT x 3/8 Tube (2 Required)
110.	29815	5/8 Tube Swivel

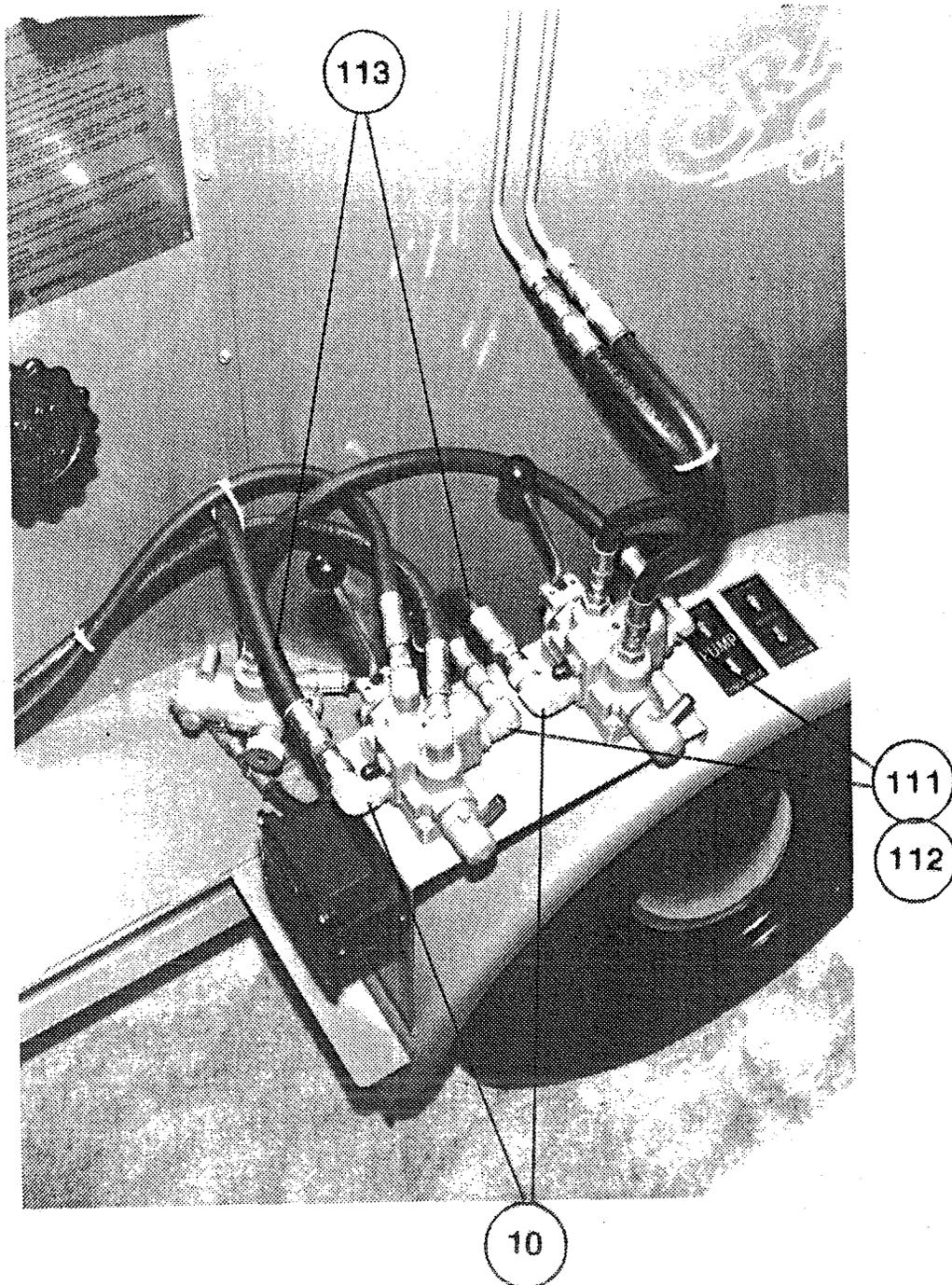


FIGURE 5B

10.	29813	90°	Fitting
111.	28347	3/4 x 3/8	Pipe Bush
112.	29872	3/8 Pipe x 3/8 Tube	90° Ell
113.	29566	1/2 x 19"	Hose

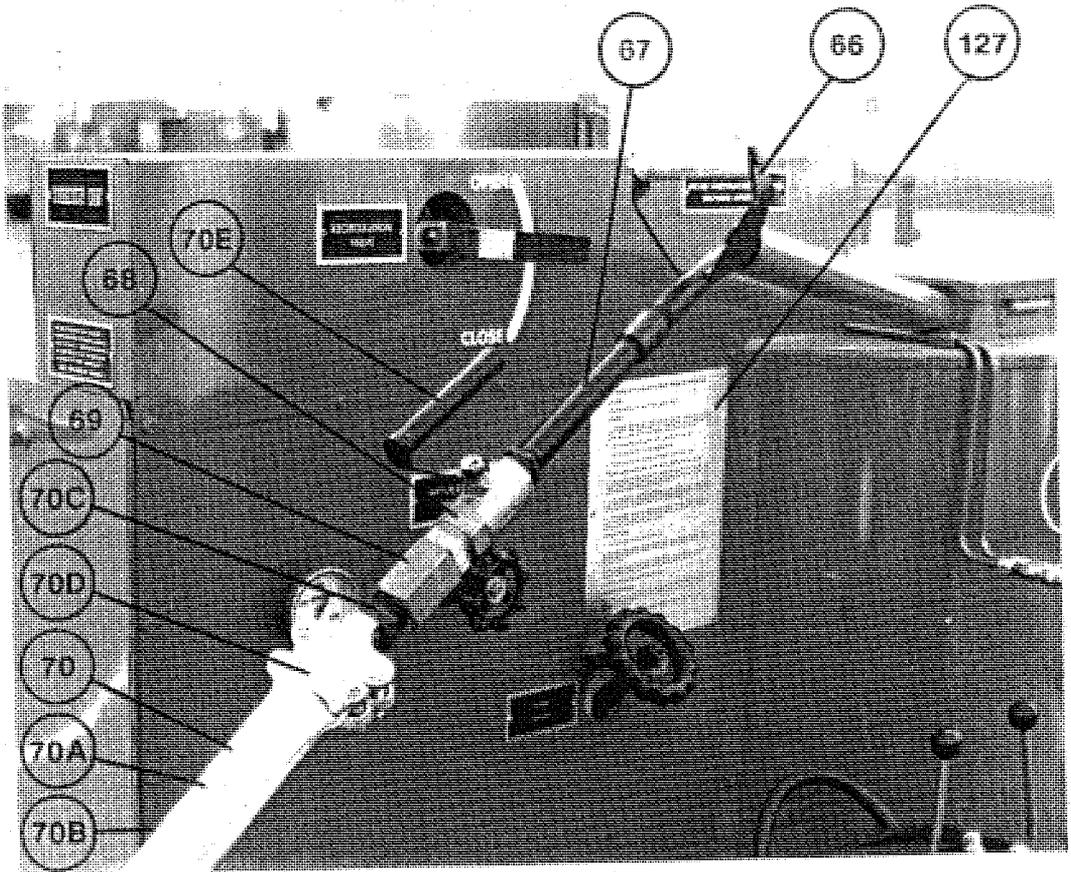


FIGURE 6

66.	41629	Hand Wand Assembly
67.	41208	Handle Assembly w/ Valve
68.	29240	1" Ball Valve (only)
69.	27048	Male/Female Swivel
70.	27084	Sealant Hose Complete-15'
70A.	27085	Hose Only
70B.	27086	Hose Cover
70C.	27040	1" Hose & Pipe Fitting (2 Required)
70D.	27045	Hose Clamp - 1" (2)
70E.	29239	Handle for 29240 1" Ball Valve
127.	41518	Instruction Plate

→ 27080

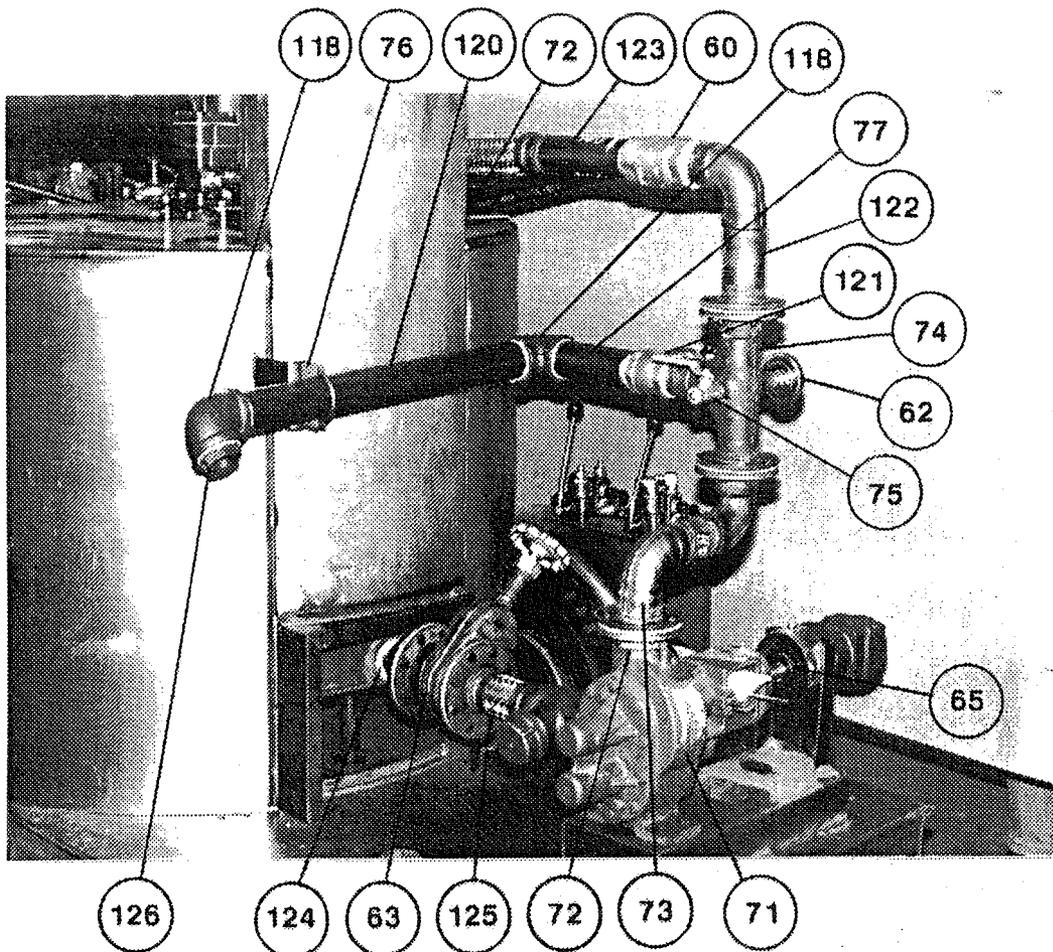


FIGURE 7

60.	41246	Recirculation Valve
62.	25050	2-1/2" Temperature Gauge
63.	29292	3" Gate Valve (Tank Valve)
65.	22050	Chain Coupling Complete
71.	27029	Material Pump
72.	22030	Flanged Nipple Assembly
73.	41596	Double Elbow Pipe Assembly
74.	41597	"T" Fitting To Recirculation
75.	29202	3/8" Ball Valve
76.	41236	Tube Clamp
77.	41291	Cross Feed Pipe
118.	28243	2" 90° Street Elbow
120.	41291	Cross Feed Pipe
121.	29270	2" Gate Valve
122.	41679	Elbow Recirc. Line
123.	41680	Pipe Assembly Upper 100
124.	41594	Flg. Assembly Suction
125.	41657	Lower Suction Tee
126.	28358	2" x 1" Bushing

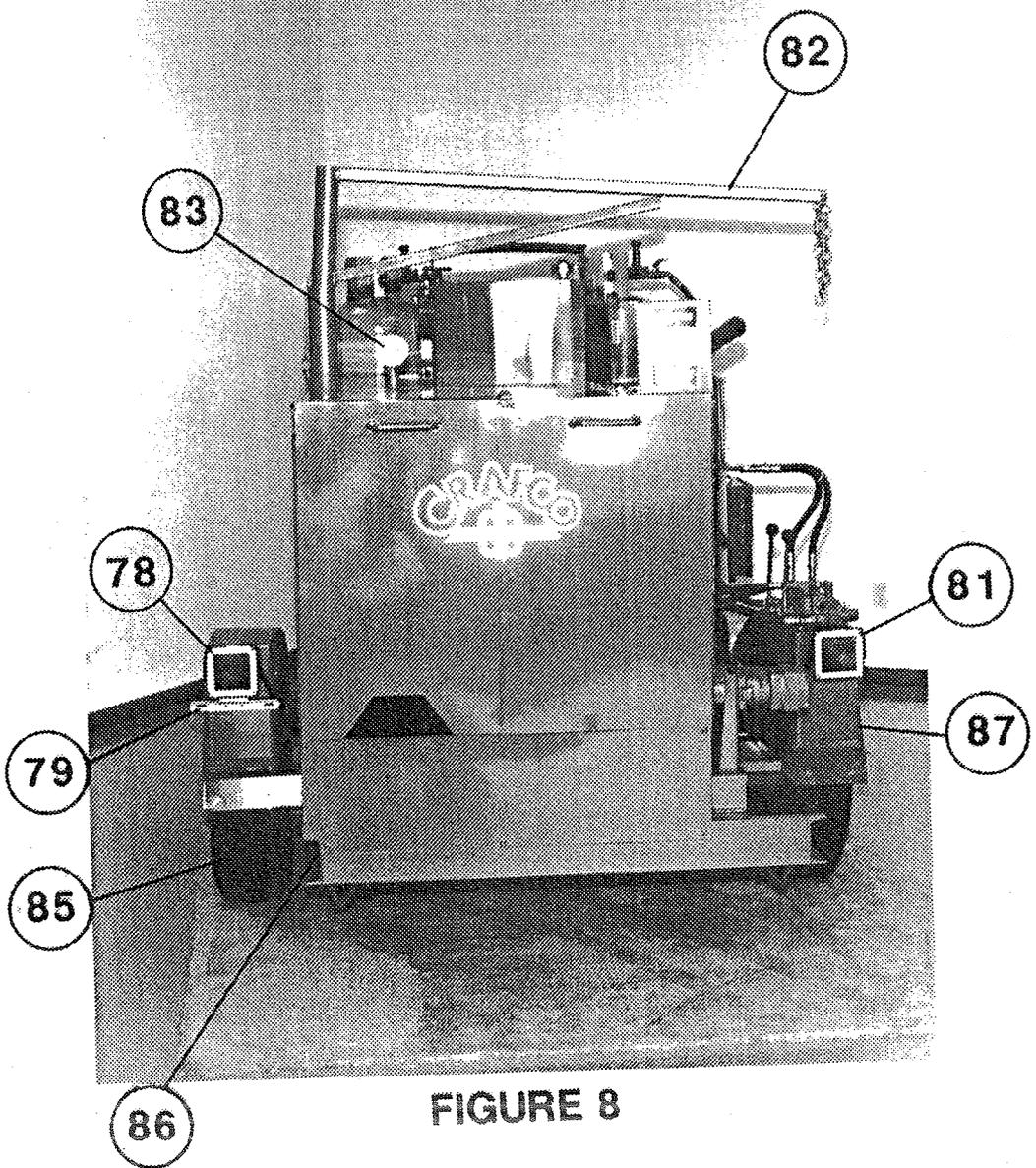


FIGURE 8

78.	24023	Left Tail Light
79.	26099	License Plate Holder
81.	24022	Right Tail Light
82.	27125	Jib Support
83.	40078	12" Temperature Gauge
85.	41087	Tire & Wheel Assembly
86.	41560	Axle Assembly Complete
87.	41575	Left Fender

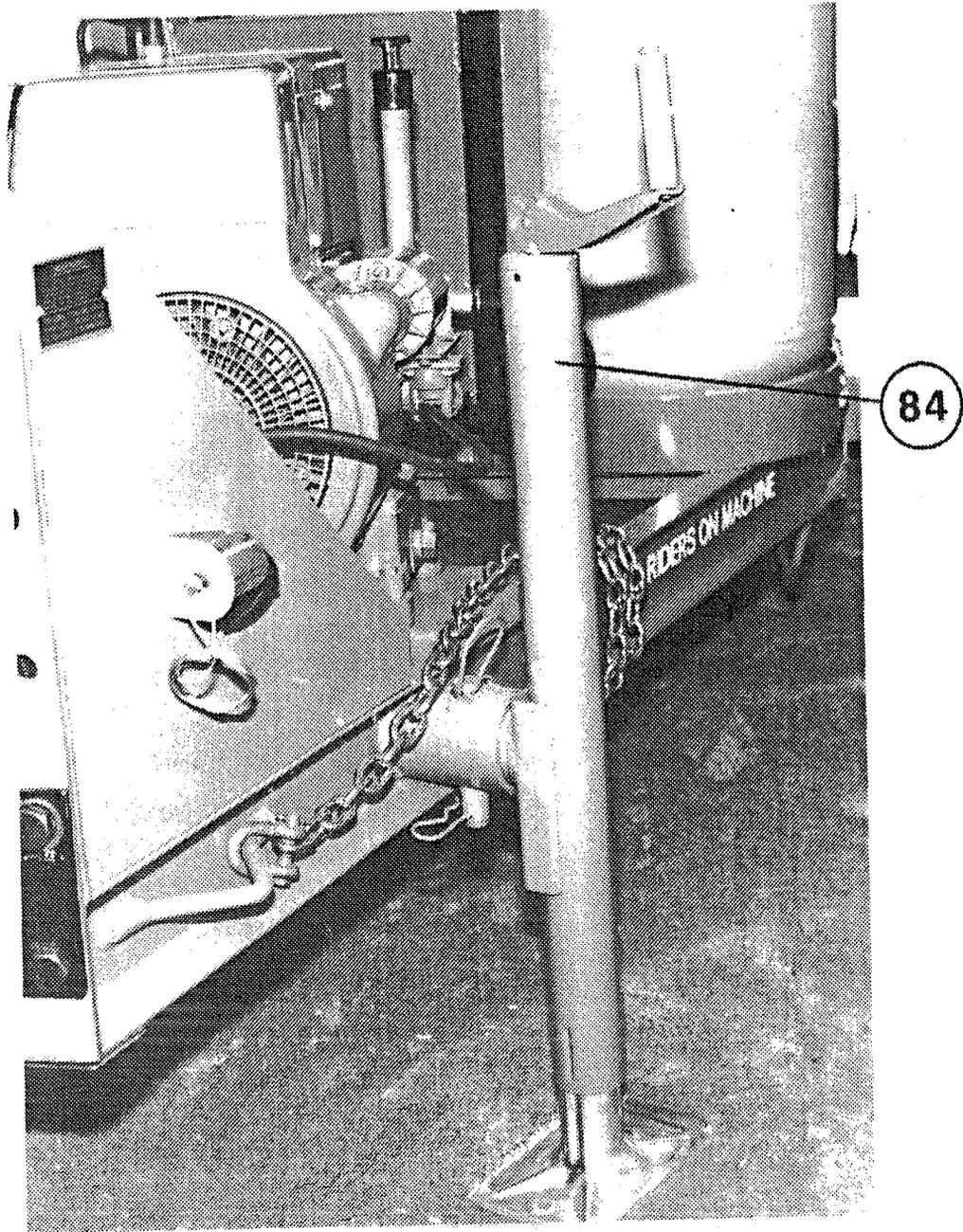


FIGURE 8A

84. 23097 Side Mounted Jack

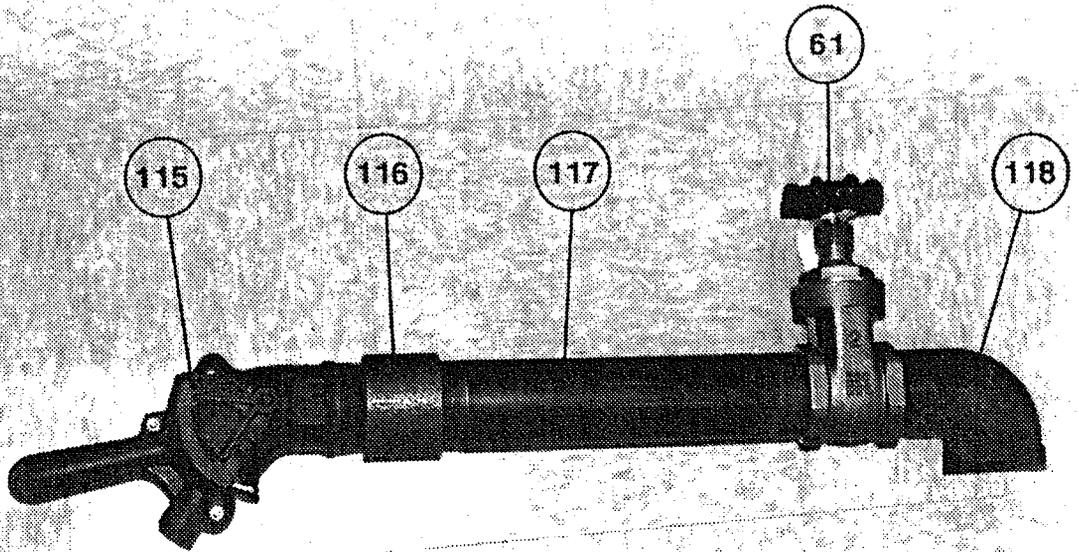


FIGURE 8B

61.	29270	Bronze Gate Valve
115.	29280	Syroco Oil Gate Valve 2"
116.	28183	2" Std. Blk. Merchant Coupling
117.	28150	2" x 11" Std. Blk. Nipple
118.	28243	2" 90° Street Elbow

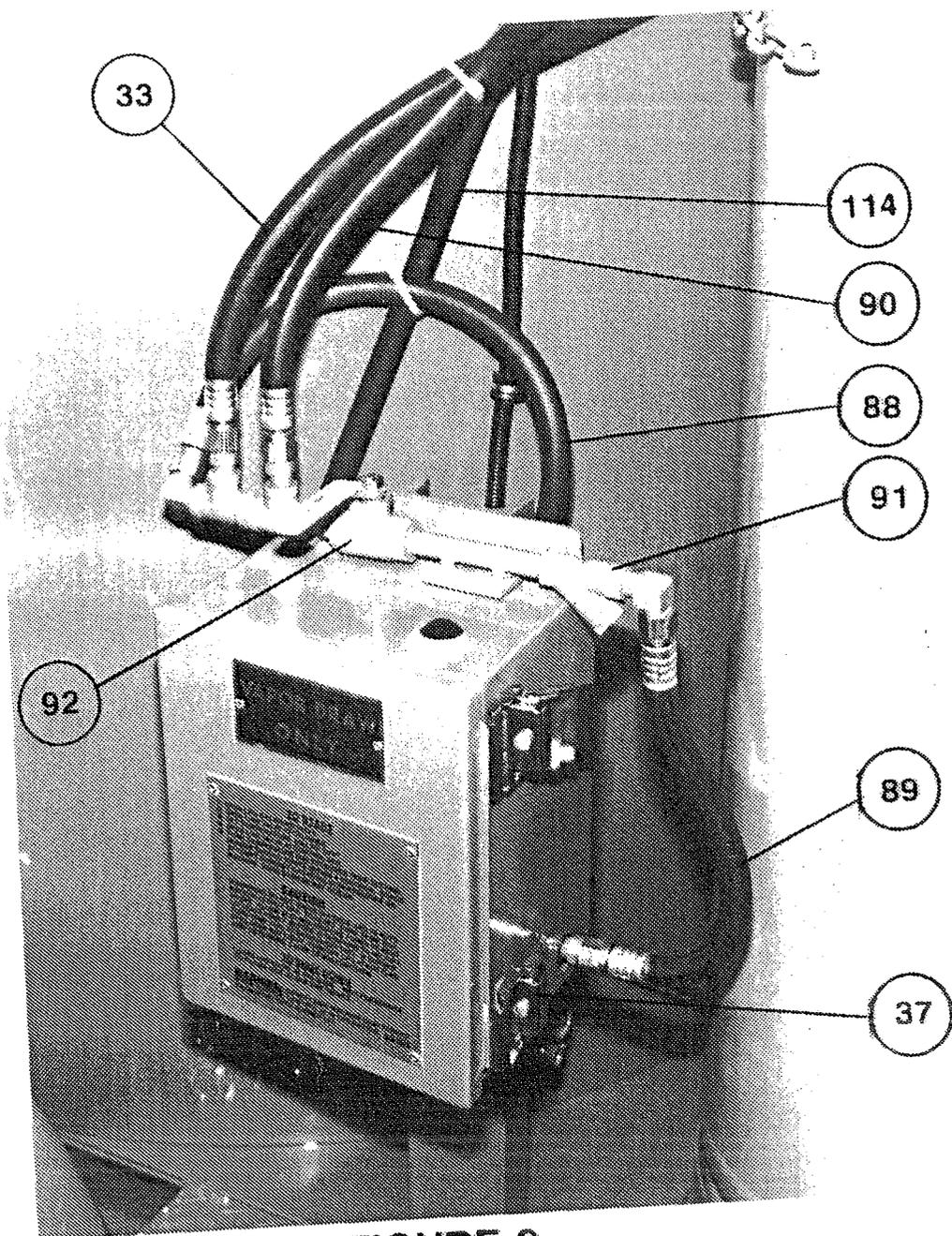


FIGURE 9

33.	25141	L.P.G. Hose 3/8x44" Control Box to Tank
37.	25268	Control Box Clasp (2 Required)
88.	25146	3/8" x 23" LPG Hose
89.	25137	3/8" x 13" LPG Hose
90.	25142	3/8" x 31" LPG Hose
91.	25208	Screen
92.	29195	1/4" Ball Valve
114.	25138	3/8 x 37" LPG Hose

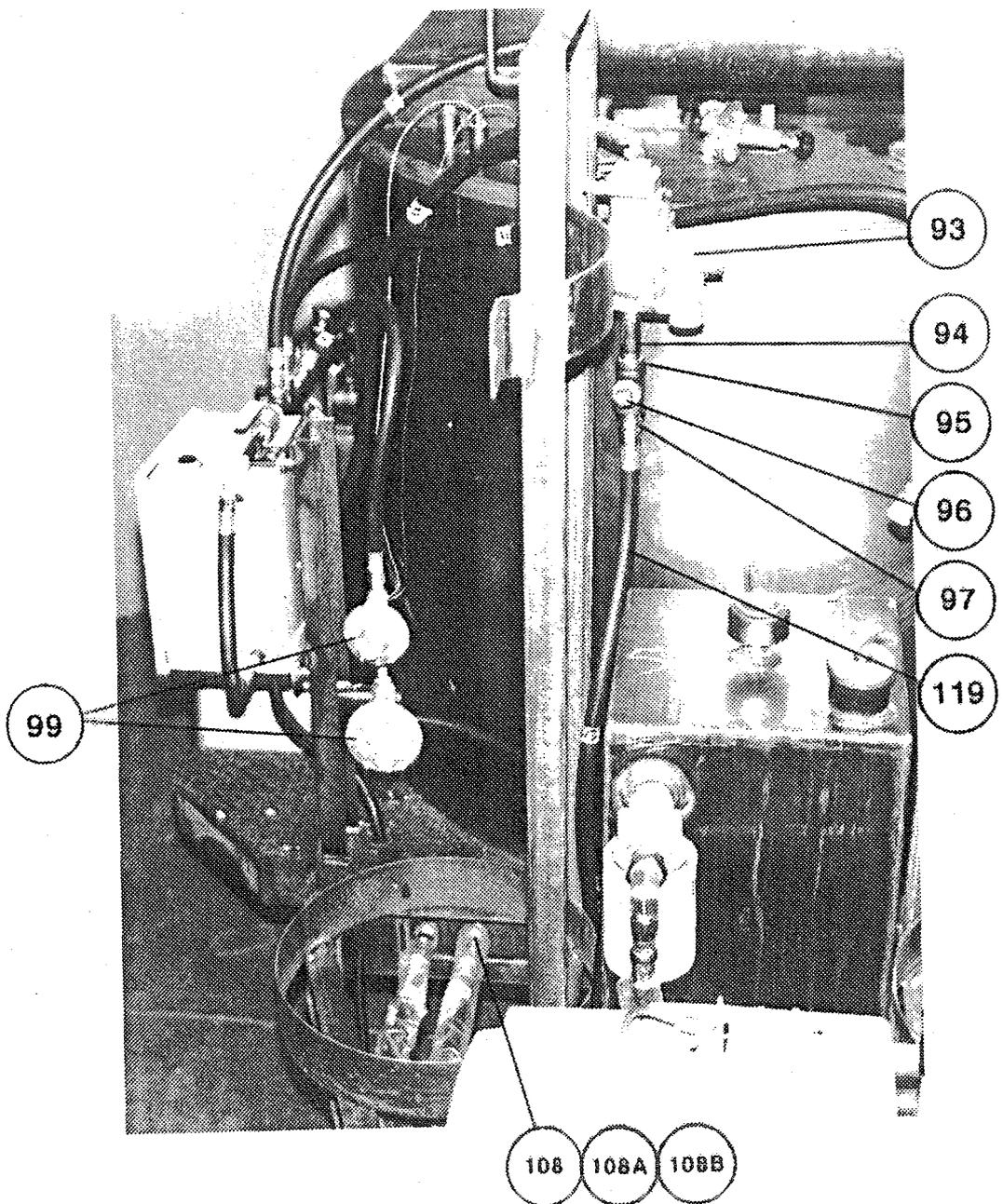


FIGURE 10

93.	41082	L.P.G. Regulator
94.	28026	1/2" x 3" Long Nipple
95.	28253	1/2" Tee
96.	28283	1/2" Plug
97.	29840	Connector (2 Required)
99.	41562	L.P. Conversion Kit (as a kit only)
108.	41552	Tube Assembly (2 Required)
108A.	29807	Bulk Head Locknut
108B.	29805	5/8" Tube Connector
119.	25132	3/8 LPG Hose x 34"

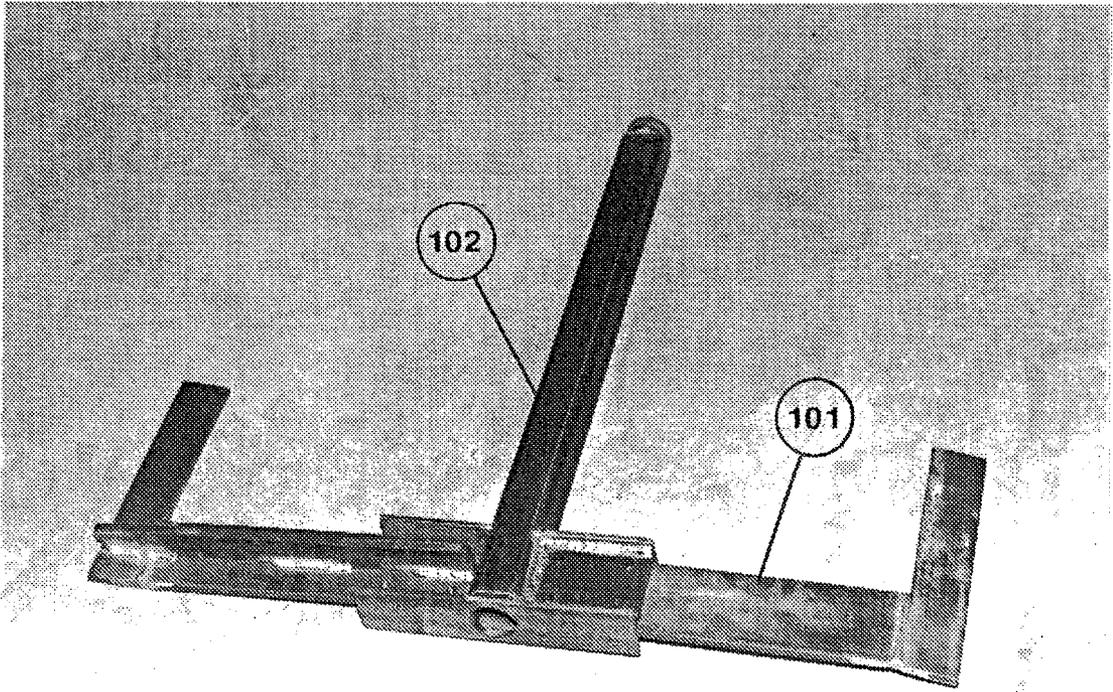


FIGURE 12

-
- | | | |
|------|-------|------------------------------|
| 101. | 41587 | Paddle Assembly (2 Required) |
| 102. | 41585 | Agitator Shaft Assembly |
-

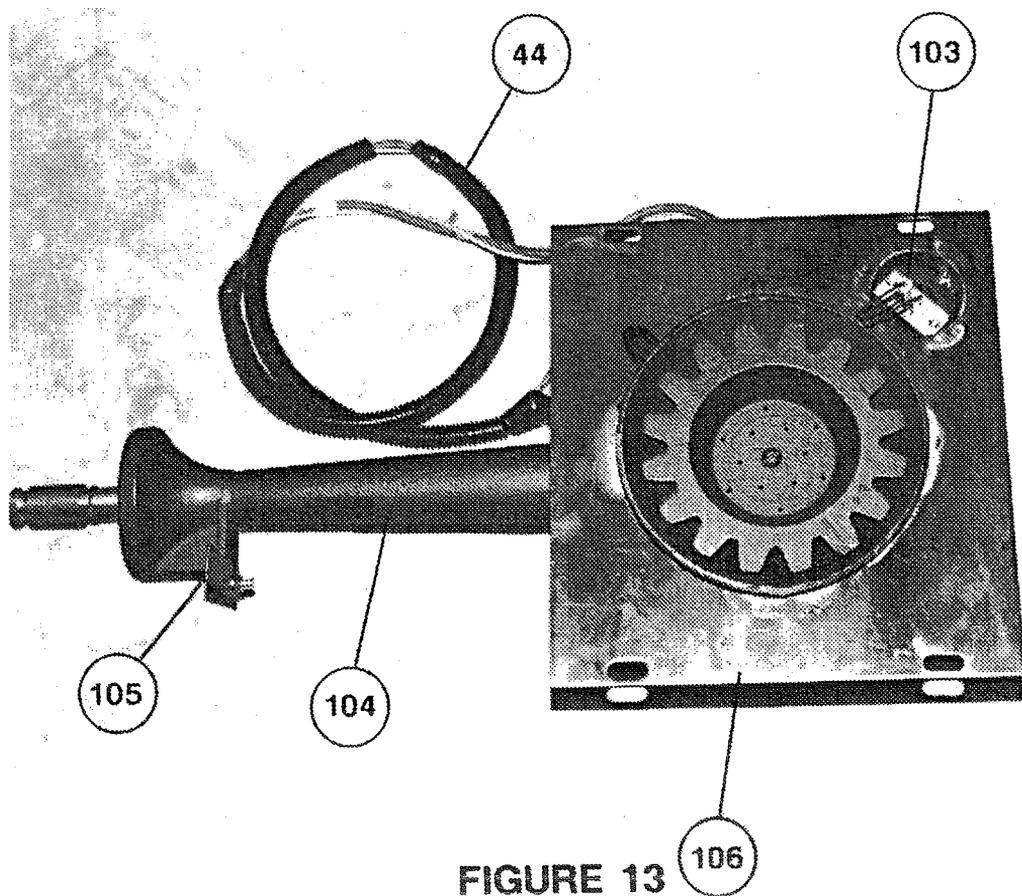


FIGURE 13

106

44.	41641	Wiring/Complete - To Ignitor
103.	25277	Ignitor
104.	41210	Burner
105.	41276	Burner Support
106.	41174	Burner Box

COMPLETE PARTS LIST

1.	41583	Hydraulic Pump Adapter
2.	41582	Hydraulic Pump
3.	29819	Hydraulic Fitting
4.	22101	Hydraulic Hose 3/4" x 23" Long
5.	29878	90° Fitting
6.	41520	Hydraulic Tank Assembly
7.	41162	Hydraulic Tank Dipstick
8.	26025	Air Breather
9.	29567	Return Hose
10.	29813	90° Fitting
11.	40318	Bushing
12.	22070	Filter Assembly
13.	22071	Hydraulic Filter (Element only)
14.	28005	1" Close Nipple
15.	41633	Muffler
16.	41640	Muffler Bracket
17.	24076	Hour Meter
18.	24077	Hour Meter Bracket
19.	41636	Isomount (4 Required)
20.	29589	L.P.G. Feed Hose
21.	41574	Kohler Engine 12hp. (L.P.G.)
22.	41243	24" Temperature Gauge (HTO)
23.	28178	1/2" Coupling
24.	40078	12" Temperature Gauge (Material)
25.	25203	Stuffing Box (2)
26.		Not Used
27.	41199	Dip Stick
28.	41553	Overflow Tank
29.	25073	L.P.G. Regulator Assembly
30.	25066	Regulator only
31.	29195	1/4" Ball Valve only
32.	25118	L.P.G. Tank
33.	25141	L.P.G. Hose 3/8x44" Control Box to Tank
34.	25280	Control Box Complete
35.	25138	Control Box To Burner Regulator 3/8x37"
36.	25262	Wire Harness (Inside Control Box)
37.	25268	Control Box Clasp (2 Required)
38.	25235	Servo Valve (2 Required)
39.	25240	High Limit Switch
40.	25220	Temperature Control Knob
41.	25276	550° Thermostat
42.	24140	Indicator Light
43.	25278	Spark Control Module
44.	41641	Wiring/Complete - To Ignitor

45.	29570	3/8 x 34" Hose (2 Required)
46.	40012	3/8 x 24" Hose
47.	28348	Bushing 3/4 NPT x 1/2 NPT
47A.	29841	Connector 1/2 NPT x 3/8 Tube
48.	41573	Flow Divider
49.		Not Used
49A.		Not Used
50.		Not Used
51.		Not Used
52.	29876	90° Fitting 1/2 NPTx3/8 Tube (2 Required)
53.	41092	Material Hydraulic Valve
54.	41093	Mixer Hydraulic Valve
55.	29841	Connector (2 Required)
56.	40187	3/8 x 18" Hose (2 Required)
57.	29808	Connector (2 Required)
58.	41550	L.H. Tube Assembly
59.	41551	R.H. Tube Assembly
60.	41246	Recirculation Valve
61.	29270	Bronze Gate Valve
62.	25050	2-1/2" Temperature Gauge
63.	29292	3" Gate Valve (Tank Valve)
63A.	41268	Valve Handle Extension
64.	22027	Hydraulic Motor - Material Pump
65.	22050	Chain coupling complete
66.	41629	Hand Wand Assembly
67.	41208	Handle Assembly w/ Valve
68.	29240	1" Ball Valve (only)
69.	27048	Male/Female Swivel
70.	27084	Sealant Hose Complete-15' (includes 66A, 66B, 66C, 66D)
70A.	27085	Hose only
70B.	27086	Hose Cover
70C.	27040	1" Hose & Pipe Fitting (2 Required)
70D.	27045	Hose Clamp - 1" (2)
70E.	29239	Handle for 29240 1" Ball Valve
71.	27029	Material Pump
72.	22030	Flanged Nipple Assembly
73.	41596	Double Elbow Pipe Assembly
74.	41597	"T" Fitting To Recirculation
75.	29202	3/8" Ball Valve
76.	41236	Tube Clamp
77.	41291	Cross Feed Pipe
78.	24023	Left Tail Light

79.	26099	License Plate Holder
80.		Not Used
81.	24022	Right Tail Light
82.	27125	Jib Support
83.	40078	12" Temperature Gauge
84.	23097	Side Mounted Jack
85.	41087	Tire & Wheel Assembly
86.	41560	Axle Assembly Complete
87.	41575	Left Fender
87A.	41576	Right Fender
88.	25146	3/8" x 23" LPG Hose
89.	25137	3/8" x 13" LPG Hose
90.	25142	3/8" x 31" LPG Hose
91.	25208	Screen
92.	29195	1/4" Ball Valve
93.	41082	L.P.G. Regulator
94.	28026	1/2" x 3" Long Nipple
95.	28253	1/2" Tee
96.	28283	1/2" Plug
97.	29840	Connector (2 Required)
98.		Not Used
99.	41562	L.P. Conversion Kit (as a kit only)
99A.	29875	90° Push-On Hose Connector (Back of Regulator)
100.	41102	Mixer Hydraulic Motor
101.	41585	Paddle Assembly (2 Required)
102.	41587	Agitator Shaft Assembly
103.	25277	Ignitor
104.	41210	Burner
105.	41276	Burner Support
106.	41174	Burner Box
107.		Not Used
108.	41552	Tube Assembly (2 Required)
108A.	29807	Bulk Head Locknut
108B.	29805	5/8" Tube Connector
109.	41523	Air Filter Element
109A.	41524	Pre-Cleaner Air Filter
110.	29815	5/8 Tube Swivel
111.	28347	3/4 x 3/8 Pipe Bush
112.	29872	3/8 Pipe x 3/8 Tube 90° Ell
113.	29566	1/2 x 19" Hose
114.	25138	3/8 x 37" LPG Hose
115.	29280	Syroco Oil Gate Valve 2"
116.	28183	2" Std. Blk. Merchant Coupling

117.	28150	2" x 11" Std. Blk. Nipple
118.	28243	2" 90 Street Elbow
119.	25132	3/8 LPG Hose x 34"
120.	41291	Cross Feed Pipe
121.	29270	2" Gate Valve
122.	41679	Elbow Recirc. Line
123.	41680	Pipe Assembly Upper 100
124.	41594	Flg. Assembly Suction
125.	41657	Lower Suction Tee
126.	28358	2" x 1" Bushing
127.	41518	Instruction Plate