



TechCrete MIXER

PART MANUAL - 26397

Rev. 0

Revised: 03/03

TechCrete MIXER
Part Number 56200
Trailer Number 56202



TABLE OF CONTENTS

TechCrete Mixer.....	5
Safety Precautions.....	6-7
Limited Warranty.....	8
Warranty Claim Instructions.....	9
Specifications.....	10
Introduction.....	11
Operating Instructions	
Machine Start Up.....	12
Figures 1 and 2.....	13
Figures 3 and 4.....	14
Figures 5 and 6.....	15
Figures 7 and 8.....	16
Caution.....	17
Shutdown Procedure.....	17
Storing Machine.....	17
Trouble Shooting Chart.....	18
Service Instructions.....	18
Maintenance	
Maintenance Instructions.....	19
Maintenance Chart.....	20
Recommended Fluids & Lubricants.....	21
Typical Specifications.....	21
General Maintenance Items.....	22
Instructions for Ordering Parts.....	22
TechCrete Placement.....	23
Application Steps.....	23
Application of the TechCrete Product.....	24
Burner Trouble Shooting.....	25
Parts	
TechCrete Mixer Diagrams and Parts.....	26-31
Hydraulic Diagram and Parts.....	32-34

TechCrete MIXER

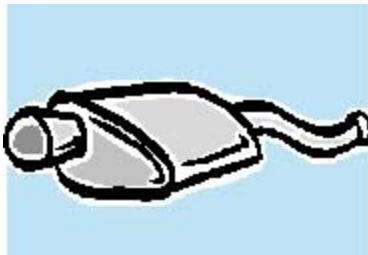
This manual is furnished with each new **CRAFCO TechCrete MIXER**. The manual will help your machine operators learn to run the mixer properly and understand its mechanical functions for trouble-free operation.

Your **CRAFCO TechCrete MIXER** is designed to give excellent service and save maintenance expense. However, as with all specifically 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.



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



SAFETY PRECAUTIONS

- High operating temperatures of product and machine require protective clothing, long sleeve shirt, long pants/coveralls, hat or hard hat (if required) and flame resistant gloves be worn by operator.

- Always wear eye protection (goggles or faceshield) when operating hot compressed air lance, air gas lance and when applying material. Faceshield is to be worn when adding material to the TechCrete Mixer.



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



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

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

- Read Operator Manual thoroughly before operating machine.

- Make sure operator is familiar with machine operation.

- Do not operate in closed building or confined areas.

- Shut-down burner and engine prior to refilling LPG tanks.

- When adding material to material tank, stop mixer, lift lid, add material 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 touch bottom of 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.

SAFETY PRECAUTIONS continued

- Follow operating instructions for starting and shut-down of burner. Instructions are mounted on control box.
- Replace any hoses which show signs of wear, fraying, or splitting. Be sure all fittings and joints are tight and leak-proof.
- Precaution is the best insurance against accidents.
- The TechCrete mixer 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.



TechCrete MIXER LIMITED WARRANTY

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

After 60 days, Crafco, Inc. warrants structural parts, excluding heating system, hydraulic components, and electrical components for a period of one (1) 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 incurred by the purchaser.

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



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

WARRANTY CLAIM INSTRUCTIONS

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

1. Call your local 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.
235 SOUTH HIBBERT
MESA, AZ 85210
480-655-8333
480-655-1712 (FAX)
Toll Free 1-800-528-8242

SPECIFICATIONS

Vat Capacity.....	95 gallons
Heat Transfer Oil Required.....	17 gallons at 70°F.
Tank Construction.....	Double boiler type
Tank Opening Size (2).....	14.25" x 17.88" (each)
Maximum Heat Input @ 15 psi - LP gas.....	240,000 BTU each
Burner & Temperature Control.....	Automatic - Digital readout. Hot oil and material. Auto flame shutdown.
Engine - Lombardini	Single Cylinder
Model 6LD-435 - Diesel Fueled.....	10 BHP @ 3600 rpm
Drive Mechanism.....	All hydraulic with two speed forward and reverse action.
Mixer.....	Horizontal shaft with 4 sweep paddles
Dry Weight Machine.....	Approximately 2,000 lbs.
Dry Weight Trailer.....	900 lbs.

TechCrete MIXER

OPERATING INSTRUCTIONS

INTRODUCTION

The Crafcro TechCrete Mixer was developed to melt TechCrete material.

DO NOT operate machine without following these instructions:

1. Fill propane tanks.
2. Check engine crankcase oil level (refer to Engine Operator Manual).
3. Check hydraulic fluid level, at ambient temperature. Add fluid if necessary to bring to correct level (approximately 3" below top of filler tube).
4. Check heat transfer oil level (see Fig. 4). At 70°F., the oil should touch the dipstick.
DO NOT overfill or spillage may occur when oil is heated and expands.
NEVER REMOVE DIPSTICK WHEN OIL IS HOT.
5. The rear discharge material valve should be in the closed position and the temperature control dials should be set at "OFF."
6. Fill engine tank with diesel fuel - **DO NOT FILL ENGINE FUEL TANK WHEN BURNERS ARE LIT (see Fig. 7).**
7. Lubricate mixer bearings daily (see Fig. 1).
8. Make sure discharge gate is in the closed position (see Fig. 2).
9. Place the hydraulic control valve switch in the neutral position (see Fig. 3).

MACHINE START UP

1. Start engine. To start engine, insert key into the control panel. Turn key to first position. Warning lights should turn "ON." Turn key to second position. Engine should start. Release key when engine is running. Leave at idle for a few minutes. Move throttle lever to set engine at desired speed (see Fig. 5). Make sure hydraulic control valve switch is in the neutral position.
2. Set temperature dials to desired temperature. Hot oil temperature should not exceed 525°F. and material 410°F. (see Fig. 6).
3. Open LPG cylinder valve.
4. Open line valve at cylinder.
5. Turn toggle switch "ON" (see Fig. 6).

CAUTION

If burners do not ignite the first time, turn toggle switch "OFF." Turn toggle switch "ON." Burner should ignite. If burner still does not ignite, determine cause of malfunction (see Trouble Shooting Guide, page 25).

6. Allow the heating oil to continue to heat. Place bags of material in the mixer and heat. Start the mixer as soon as possible to break up the bags. When loading solid material into the mixer tank the mixer will stop when lifting the lid, add material and close the lid again to start the mixer. Following this procedure will prevent the hot material from splashing and causing serious burns to personnel.

Engage the mixer by moving the mixer hydraulic control toggle switch to forward or reverse rotation. When changing the speed of mixing, move both bypass hydraulic valves simultaneously. If mixer jams, switch may be moved for opposite rotation. The speed of mixing is controlled by the position of the 2 bypass hydraulic valves (see Fig. 8). The valves should be moved together (either in or out) not one at a time. The minimum amount of material needed for proper mixer operation is 400 lbs.

7. Temperature readout on burner control box indicates material temperature. When TechCrete material reaches correct application temperature, material may be drawn off as desired. Discharge gate is opened by moving handle down. Drain material into pour bucket.

Remove excess TechCrete material from chute with scraping tool.

CAUTION: Be sure discharge gate is completely closed after each draw off. Lock handle with safety chain if machine is transported (see Fig. 2).

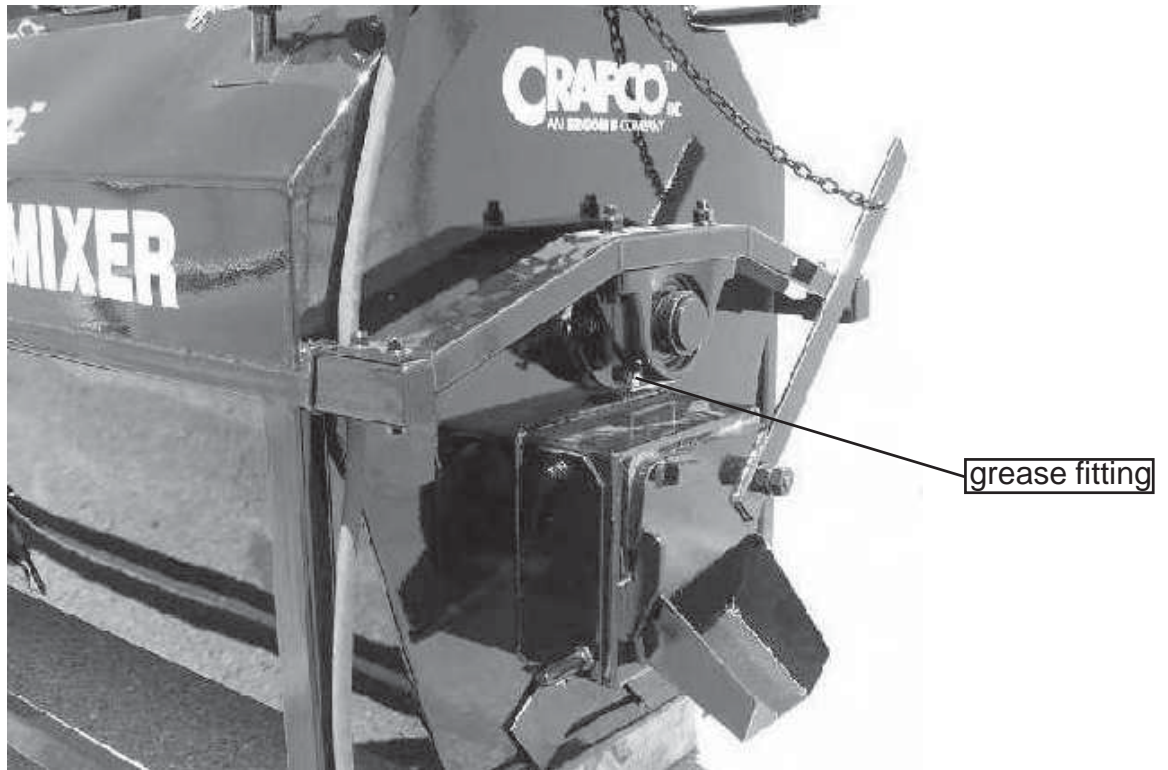


Fig. 1

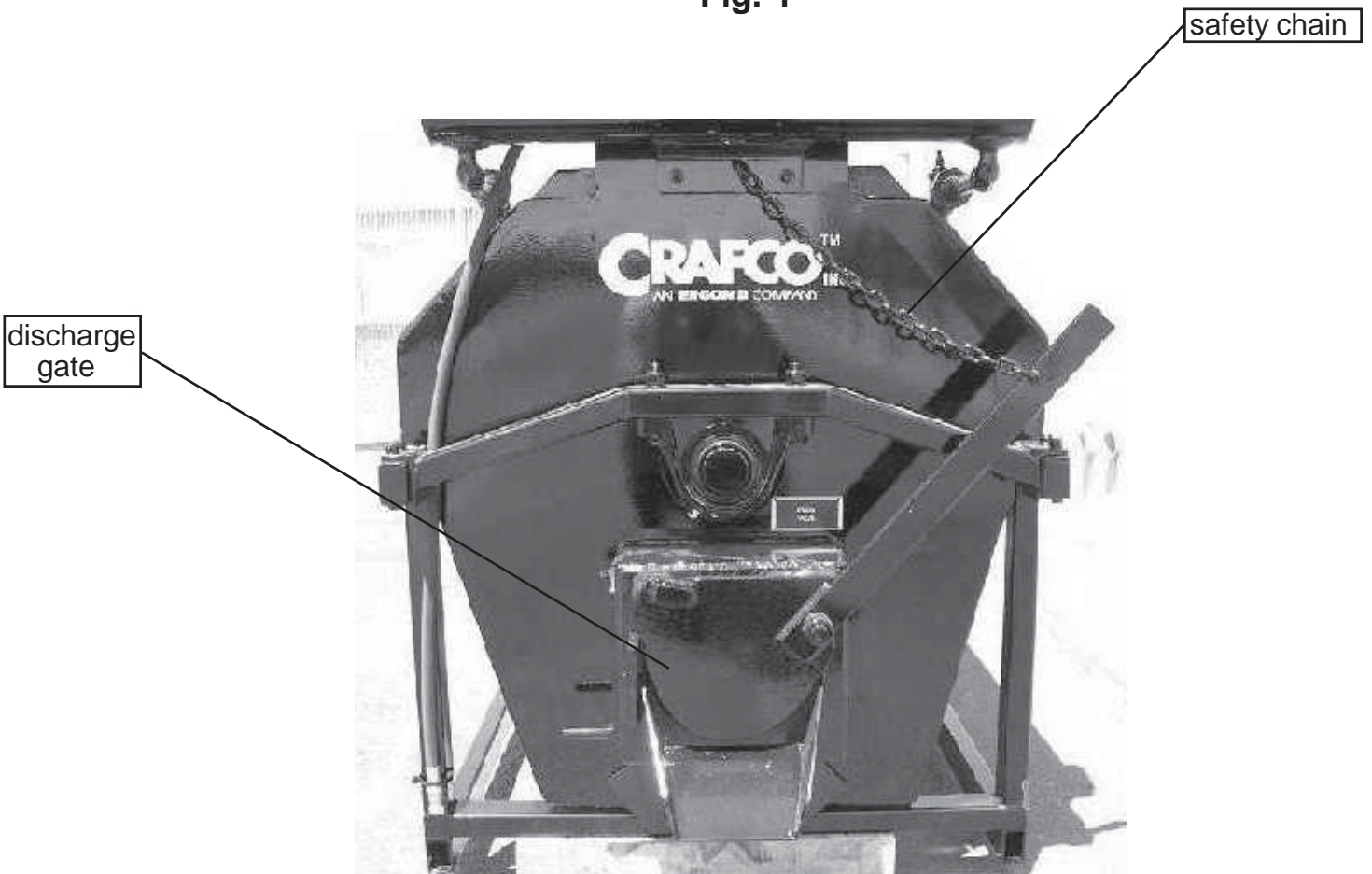


Fig. 2



Fig. 3

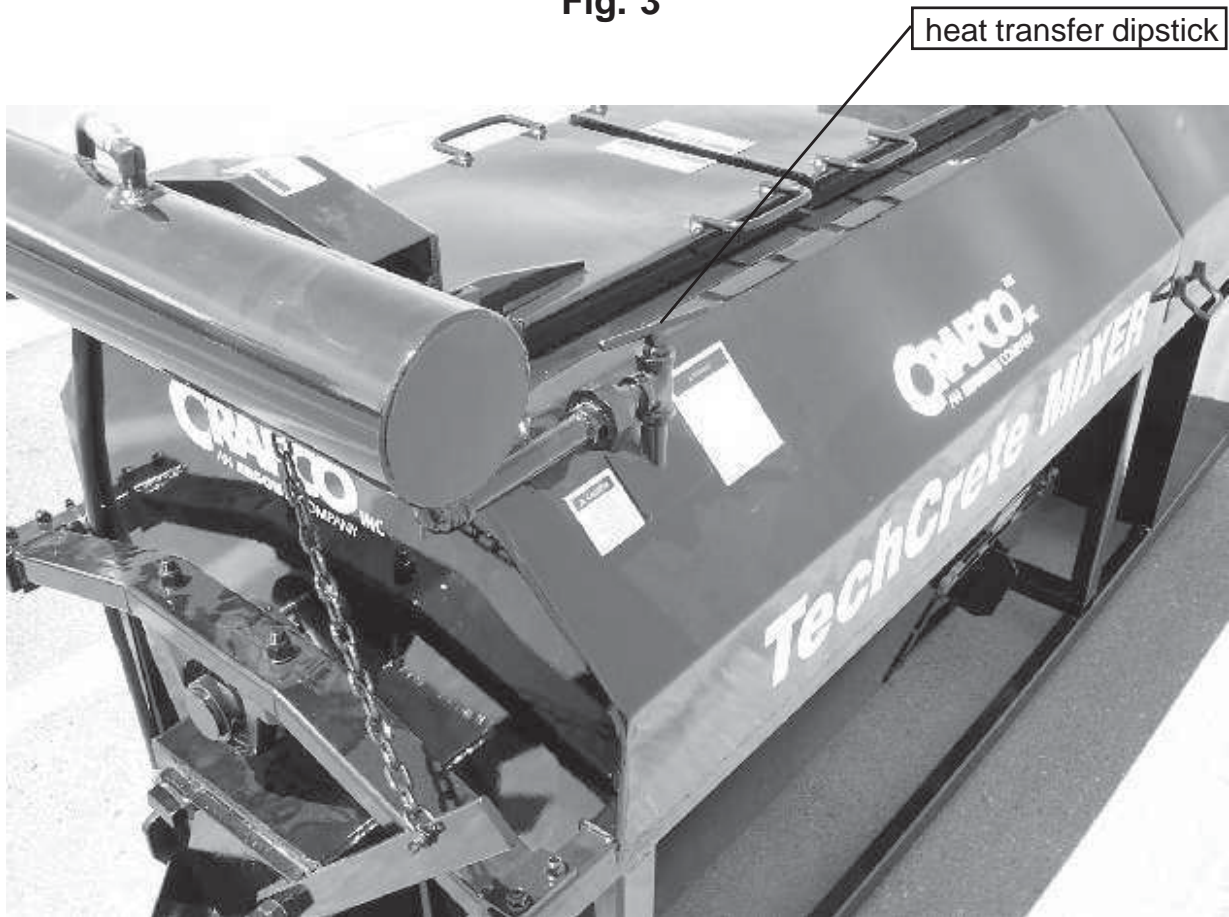


Fig. 4

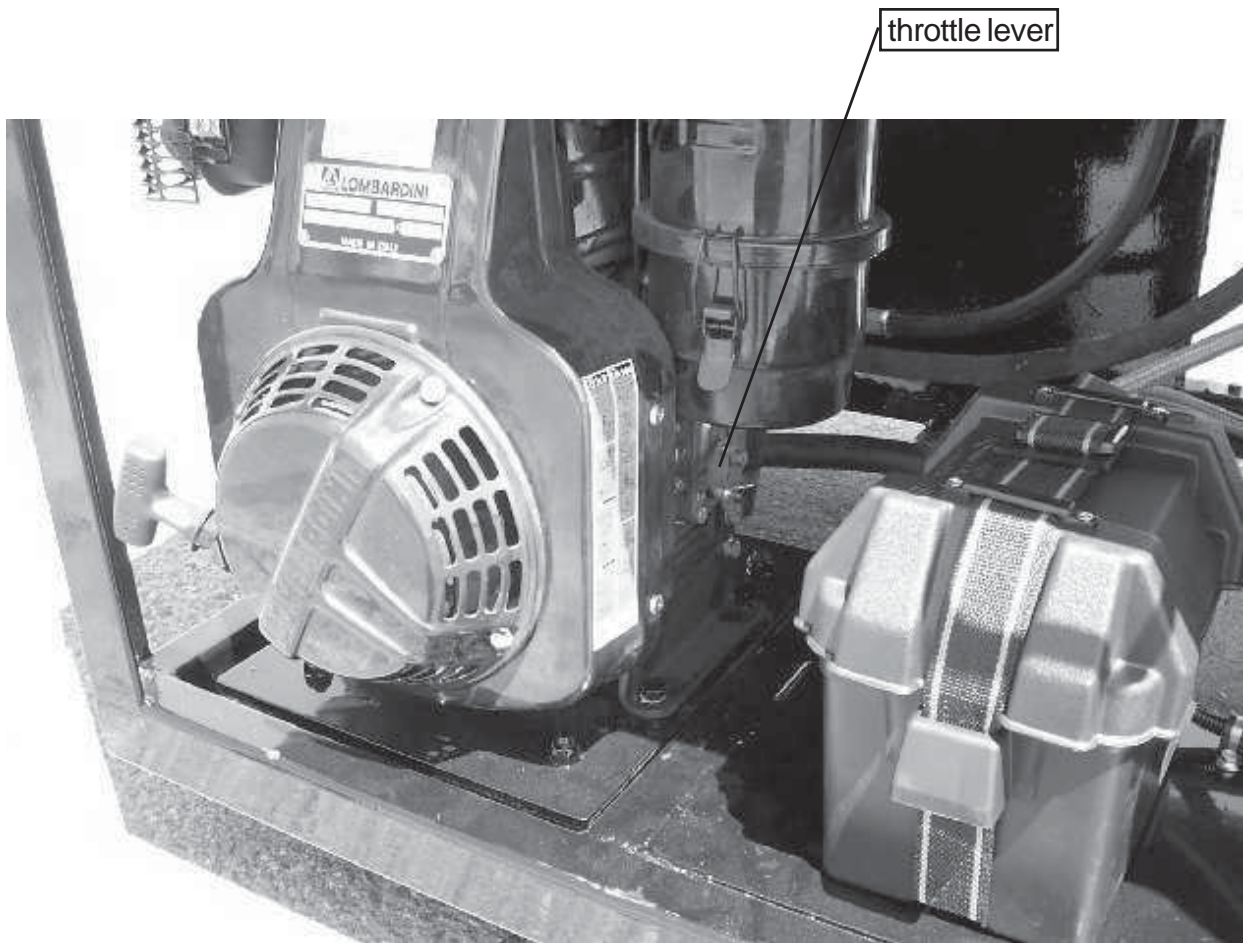


Fig. 5

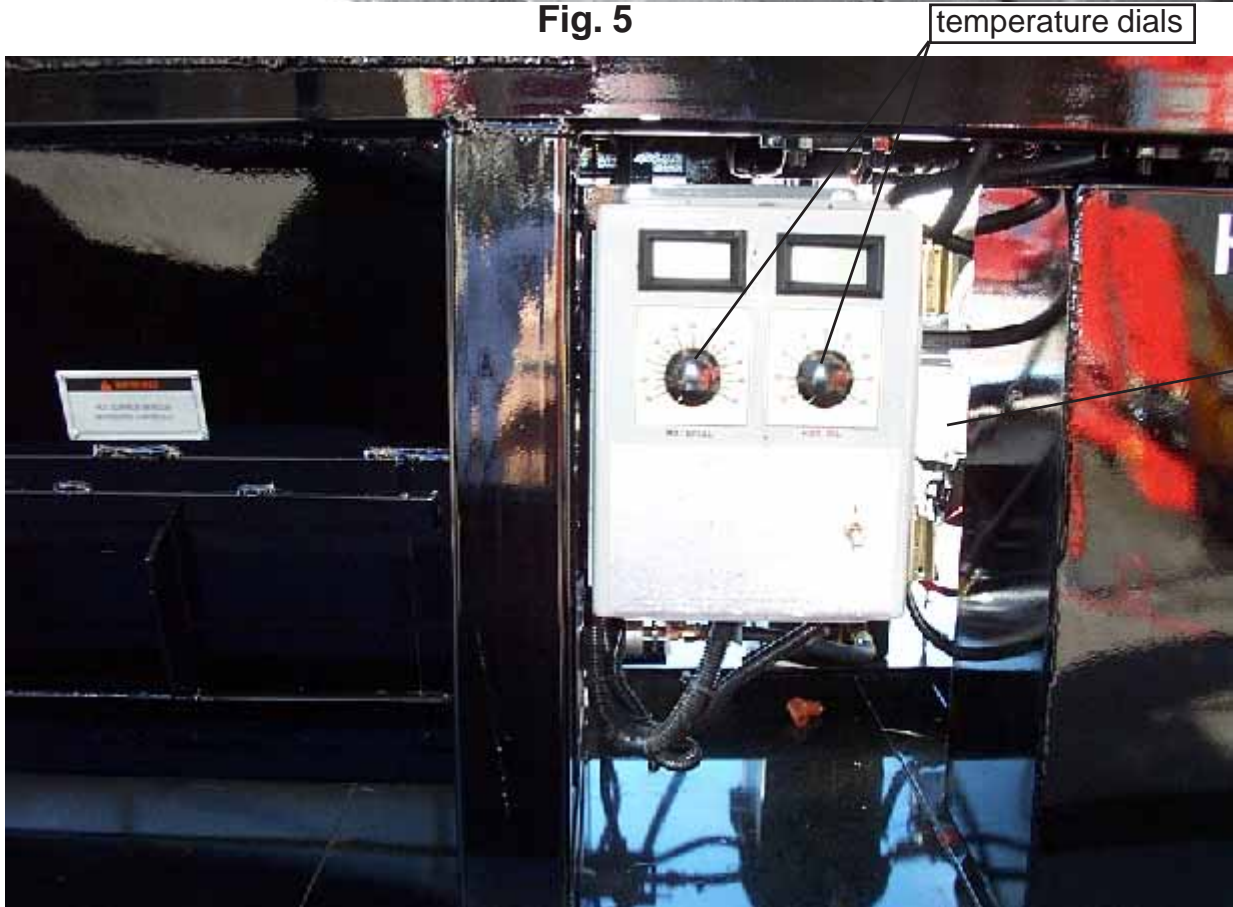


Fig. 6

engine fuel tank



Fig. 7

by-pass valves

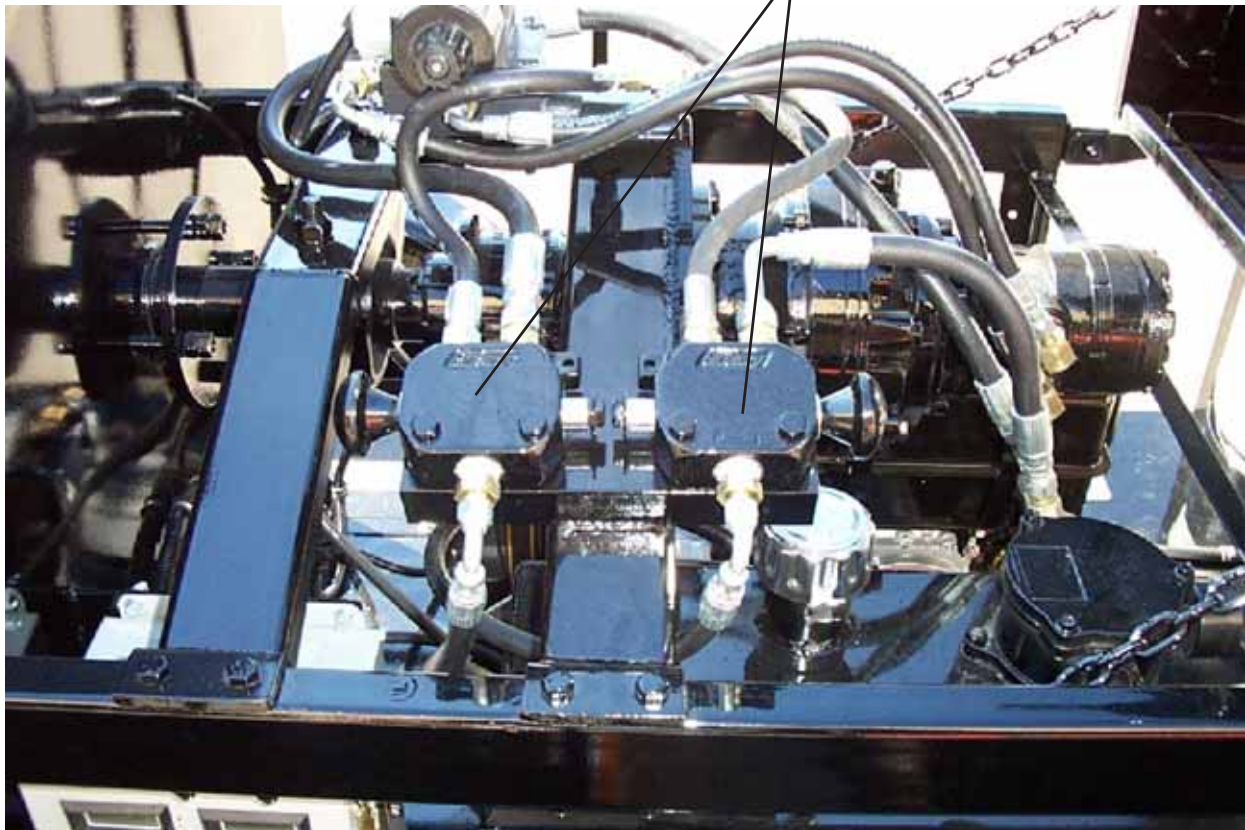


Fig. 8

CAUTION

Extreme care must be used when operating this equipment. Safety is the result of being careful and paying attention to details. Remember the propane flame is about 2200°F. Certain exposed parts of this machine, when operating, reach 500°F.; the material as high as 400°F. and the hydraulic fluid 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 show signs of wear, fraying or splitting. Tighten all bolts, nuts and screws every 100 hours.

SHUTDOWN PROCEDURE

1. Turn burner toggle switch to "OFF."
2. Return mixer hydraulic control switch to "OFF" position.
3. Close LPG line ball valves. Close LPG cylinder valves.
4. Turn off engine by closing stop lever and turn off key.

STORING MACHINE

The TechCrete Mixer should be stored in an area where moisture cannot enter machine. Extended down time can cause moisture build up in heating oil tank.

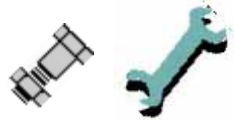
If there is any suspicion that moisture may have collected in heat transfer oil, warm heat transfer fluid to 300°F. for 2 to 3 hours to evaporate the moisture.

TROUBLE SHOOTING CHART

PROBLEM	CAUSE	REMEDY
Mixer will not rotate.	Material temperature too low.	Continue to heat material.
	Inadequate hydraulic flow/pressure.	Check hydraulic fluid level. Reset pressure/check flow if necessary.
Slow heat up of material.	Burner not operating correctly. Low LPG pressure.	Check temp settings/trouble shoot burner if necessary. Adjust LPG pressure.
	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.
3. Watch for leaks - tighten packing on mixer if necessary.
4. Clean machine externally periodically. Check with material manufacturer for recommendation.
5. Follow “Recommended Maintenance Procedures” per Maintenance Chart, page 20.

MAINTENANCE INSTRUCTIONS

ENGINE:

Check oil daily. Service engine per Lombardini owners manual. See engine owners manual for additional operating and maintenance instructions.

HYDRAULIC SYSTEM:

Check hydraulic fluid daily. Change hydraulic filter after 250 hours. Change hydraulic fluid every 500 hours of operation.

MIXER PACKING GLAND/SEALS:

Tighten gland while hot at 40 hour intervals. Do not overtighten.

MIXER SHAFT BEARINGS:

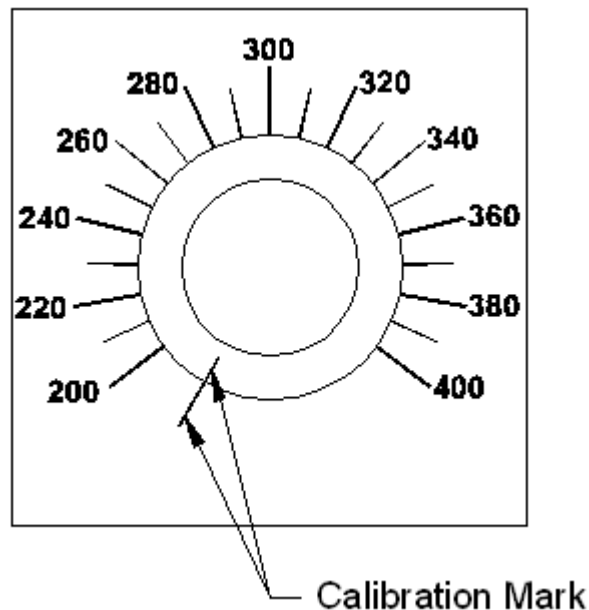
Lubricate daily using a good grade of bearing grease.

HEAT TRANSFER OIL:

Check level daily. Oil should touch dipstick when 70°F. Do not overfill (see Fig. 4).

TEMPERATURE CONTROL CALIBRATION

Check control knob calibration weekly. Calibrate by aligning the line on the control knob with the calibration line on the scale plate (see below).



MAINTENANCE CHART

		HOURS			
LOCATION	PROCEDURE	8	40	250	500
Engine Check Oil Level	See Engine Instruction Manual.	*			
Other Engine Maintenance	See Engine Operating & Maintenance Instructions.				
Battery	Check Water Level Weekly.				
Mixer Shaft Packing	Tighten when hot at 40 hour intervals. Do not overtighten.		*		
Heat Transfer Oil	Check (every 8 hours)	*			
	Change	After 500 hours or 1 year			
Hydraulic Oil Return Line Filter	Change at 250 hour			*	
Hydraulic Oil	Check Oil (every 8 hours)	*			
	Change Oil (every 500 hours)				*
	For proper oil, see Recommended Fluids & Lubricants, page 21.				
Mixer Shaft Bearings	Grease using good grade of bearing grease.	*			

RECOMMENDED FLUIDS & LUBRICANTS

APPLICATION	RECOMMENDED	FULL POINT
Engine Oil	Refer to Lombardini Owners Manual.	1 Qts.
LPG	Propane	100 lbs. each bottle
Hydraulic Oil	RONDO Oil-HD-68 Texaco	12 gal.
Heating Oil	Regal R&O 68	17 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

TYPICAL SPECIFICATIONS

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



WARNING

The Heat Transfer Oil in this machine is a grade that has been tested and recommended by CRAFCO, Inc. The addition of any grade of oil not specifically recommended by CRAFCO, Inc. shall be cause for 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 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	Packing, mixer shaft	32226
2	Spark/sensor probe	32234

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.
420 N. Roosevelt Ave.
Chandler, AZ 85226
Phone: (602) 276-0406
Toll Free: 1-800-528-8242

TechCrete PLACEMENT

Prior to the material application you will need to move the equipment to the work area. The items needed are:

1. Compressor
2. Saw to cut out repair area
3. Pneumatic hammer
4. Broom and shovels to clean up area
5. Broom or sweeper (if required to remove FOD)
6. TechCrete machine, material, and application tools
7. Dressing stone
8. Heat lance
9. Primer
10. "Hudson" sprayer for the primer
11. Paint brushes
12. Small paint cans
13. Rags
14. 1 or 2 gallons of water (to speed up cooling process if required)
15. Gloves, heavy welder gloves and standard leather gloves
16. Cloth duct tape
17. Reference materials

APPLICATION STEPS

1. Locate area to be repaired.
2. Mark the areas to be cut out. Make sure you cut out enough of the pavement to remove all cracking around the patch area. If the repair area extends to both sides of a joint, the repair area must be a minimum of 4" on each side of the joint.
3. Cut with either a wet or dry saw. The saw should cut a minimum of 1-1/2" to 2" deep.
4. Remove the remaining material with a chipping or jack hammer to a minimum depth of 1-1/2 to 2".
5. After the repair area has all the loose material removed, use the hot air lance to clean and dry the pavement.
6. Apply tape 1/4" from the edge of the prepared area.
7. Prime the area with the TechCrete Primer using the "Hudson" sprayer or paint brushes. If spraying the primer on repair areas, you may need to do some touch-up with a paint brush. When touching up, you want to cover any missed spots and spread any pooled primer. Allow the primer to set up which takes about 10-12 minutes. **DO NOT DRY WITH A TORCH.**

APPLICATION OF THE TechCrete PRODUCT

During the time you have been preparing the patch areas you should have calculated the amount of material needed for the repairs.

Place bags of material in the mixer and heat. Start the agitator as soon as possible to break up the bags. The heat up time is usually within 60-90 minutes. Care should be taken not to overheat the material. If material temperature is too high, lower the burner material temperature control and/or open the lid.

1. Have the tools needed for the repair heating in the heated box.
2. Heat the discharge gate.
3. Remove at least two pails of product and pour back into the melter. This will insure a good flow of material when you start the application.
4. Apply the first lift of material to the repair. Apply adequate material so you get material within 1" of surface.
5. Allow the material to cool for a period of time allowing air bubbles to move to the surface of the product. The bubbles are generated from uncured primer, air, or moisture. When the bubbles stop rising to the surface (usually within 15-20 minutes). Flash surface with hand torch to "pop" bubbles.
6. Apply the next level and float surface of the material with the hot irons. Seal the edges of the repair by pulling liquid to the edge, then remove the duct tape. The main portion of the material will self level, but you may need to do some smoothing with the hot iron to insure a level surface.
7. Allow this material to cool similar to the first lift - you may not experience as many bubbles this time but some may appear. When they do, flash them with the torch.
8. Dry the aggregate dressing prior to placing on TechCrete material as wet or damp dressing will not adhere. Smooth the aggregate dressing material over the patched area with your gloved hand. This will insure coverage of the whole surface of the TechCrete.

If you applied the aggregate dressing material too soon the bubbles will continue to rise to the surface and pop leaving a pock marked surface. If this occurs, adjust your timing to allow more bubbles to break the surface.

9. Shut down the melter and clean up the repaired area. If the cooling time of the material needs to be shortened, broadcast some water over the surface.
10. Sweep excess aggregate dressing material from the surface of the repair and finish clean up.

BURNER TROUBLE SHOOTING

BURNER WILL NOT IGNITE

Step 1: Check for 12 volts at toggle switch.

No: Then toggle switch is "OFF"
Fuse is "Blown"
Broken wire
Yes: Then go to Step 2



Step 2: Check for 12 volts at terminal #7 on material temperature thermostat.

No: Then material temperature thermostat is bad
Yes: Then go to Step 3

Step 3: Check for 12 volts at terminal #7 on oil temperature thermostat.

No: Then oil temperature thermostat is bad
Yes: Then go to Step 4

Step 4: Check for 12 volts at power terminal of spark control module.

No: Then there is a bad connection or a broken wire
Yes: Then there is a Faulty spark control module
Faulty ignitor or ignitor wire
Reposition ignitor
Check for clogged burner orifice
Inadequate gas flow/or pressure
Faulty "ASCO" gas valve

BURNER LIGHTS BUT SHUTS DOWN IN 3.5 SECONDS

Faulty ignitor
Broken or loose flame sensor wire
Faulty spark control module

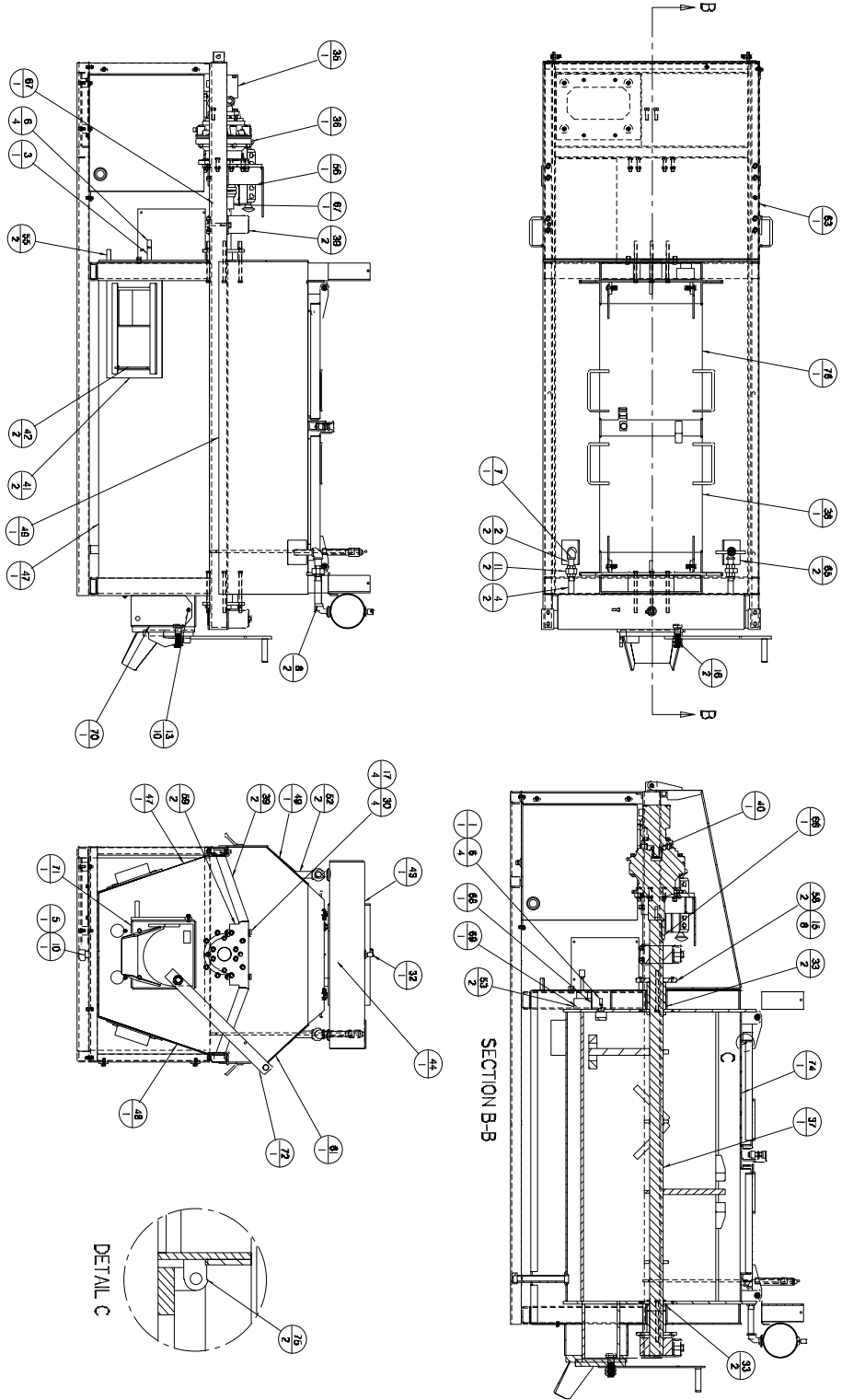
BURNER LIGHTS BUT WILL NOT RELIGHT

Calibrate thermostat
Blown fuse
Faulty spark control module
Faulty sensor

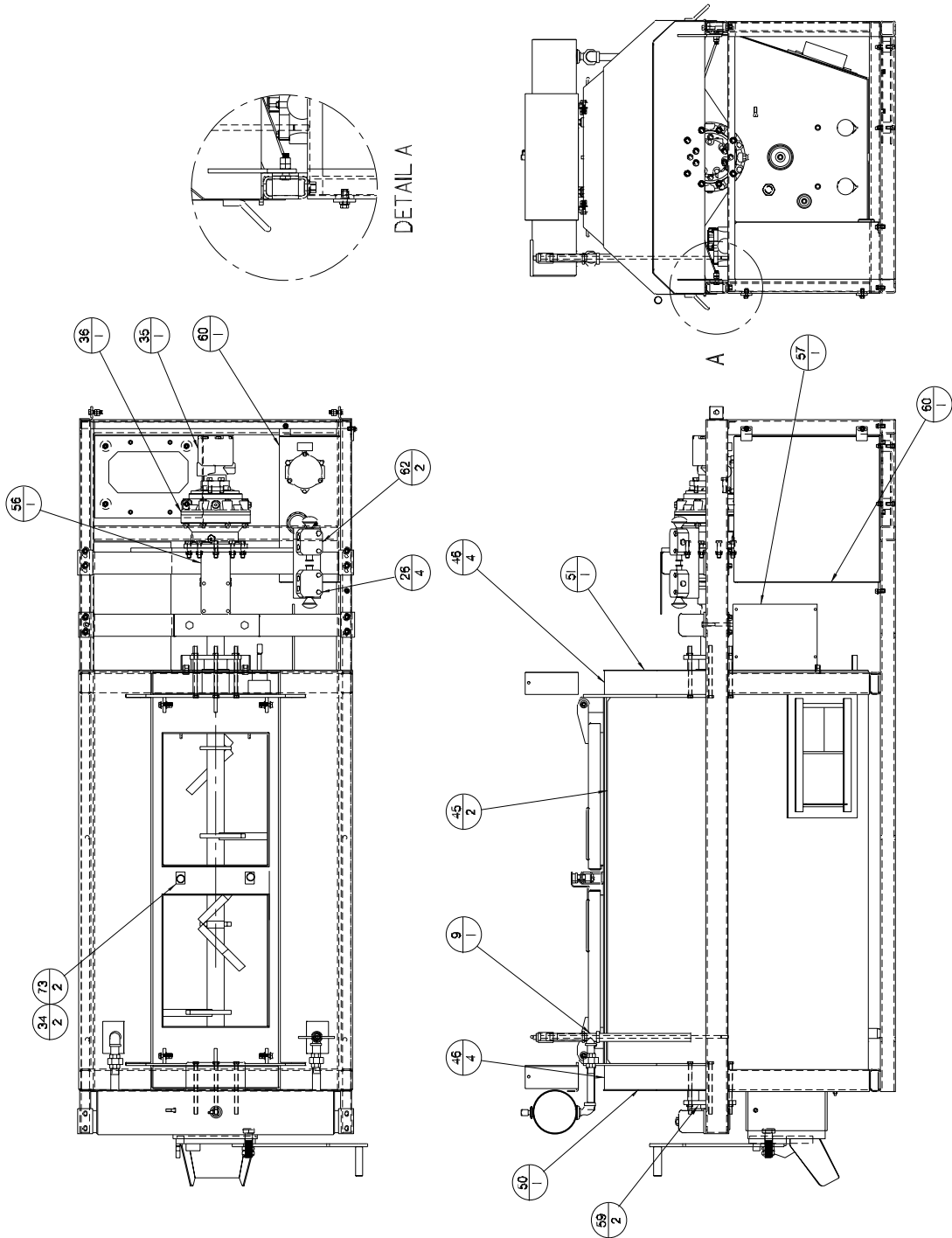
BURNER WILL NOT SHUT OFF @ TEMPERATURE SETTING

Calibrate thermostat
Dirt in "ASCO" valve
Faulty sensors

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NUMBER	PART NUMBER	QTY	DESCRIPTION
1	28001	1	1/4" CLOSE NIPPLE
2	28004	2	3/4 CLOSE NIPPLE
3	28068	1	1/4" X 6.0 NIPPLE
4	28071	2	3/4" X 6" PIPE NIPPLE
5	28101	1	1" X 8" PIPE NIPPLE
6	28176	2	1/4 PIPE COUPLING
7	-	-	NOT SHOWN
8	28239	2	3/4" ELBOW
9	28254	1	3/4 NPT TEE
10	28270	1	1" PIPE CAP
11	28329	2	3/4" PIPE UNION
12	28501	4	5/16-18 HEX HEAD NUT (NOT SHOWN)
13	28502	10	NUT, HEX HEAD 3/8-16
14	28503	33	NUT, HEX HEAD 7/16-14 (NOT SHOWN)
15	28504	8	1/2-13 HEX NUT
16	28520	2	1"-8 HEX HEAD NUT
17	28541	4	5/8-11 UPSET LOCKNUT
18	28645	4	1/4 LOCK WASHER (NOT SHOWN)
19	28646	6	WASHER, SPLIT LOCK 5/16 (NOT SHOWN)
20	28647	8	3/8 LOCK WASHER (NOT SHOWN)
21	28648	21	7/16 LOCK WASHER
22	-	-	NOT SHOWN
23	-	-	NOT SHOWN
24	28730	4	3/8-16 X 3/4" HEX HEAD BOLT (NOT SHOWN)
25	28732	1	3/8-16 X 1-1/4 HEX HEAD BOLT (NOT SHOWN)

TechCrete MIXER

NUMBER	PART NUMBER	QTY	DESCRIPTION
26	28735	4	BOLT, HEX 3/8-16 X 2
27	28745	12	7/16-14 X 4" BOLT
28	28748	15	BOLT, 7/16-14 NC X 1-1/2 (NOT SHOWN)
29	28771	8	1/2-13 X 7-1/2" BOLT (NOT SHOWN)
30	28782	4	5/8-11 X 4" BOLT
31	-	-	NOT SHOWN
32	-	-	NOT SHOWN
33	32226	2	MIXER GLAND PACKING
34	32236	2	BURNER BAR
35	39608	2	SWITCH - SAFETY
36	42574	1	MIXER MOTOR
37	56203	1	6-1 GEARBOX ASSEMBLY
38	56205	1	FRAME ASSY - ROAD TECH
39	56225	1	TANK ASSY - ROAD TECH
40	56237	1	TANK LID ASSEMBLY
41	56240	2	BEARING SUPPORT ASSEMBLY
42	56244	1	ADAPTER COUPLING GEAR BOX TO HYD. MOTOR
43	-	-	NOT SHOWN
44	-	-	NOT SHOWN
45	56252	1	OVERFLOW TANK ASSEMBLY
46	56255	1	ANGLE, OVERFLOW TANK SUPPORT
47	-	-	NOT SHOWN
48	-	-	NOT SHOWN
49	-	-	NOT SHOWN
50	-	-	NOT SHOWN

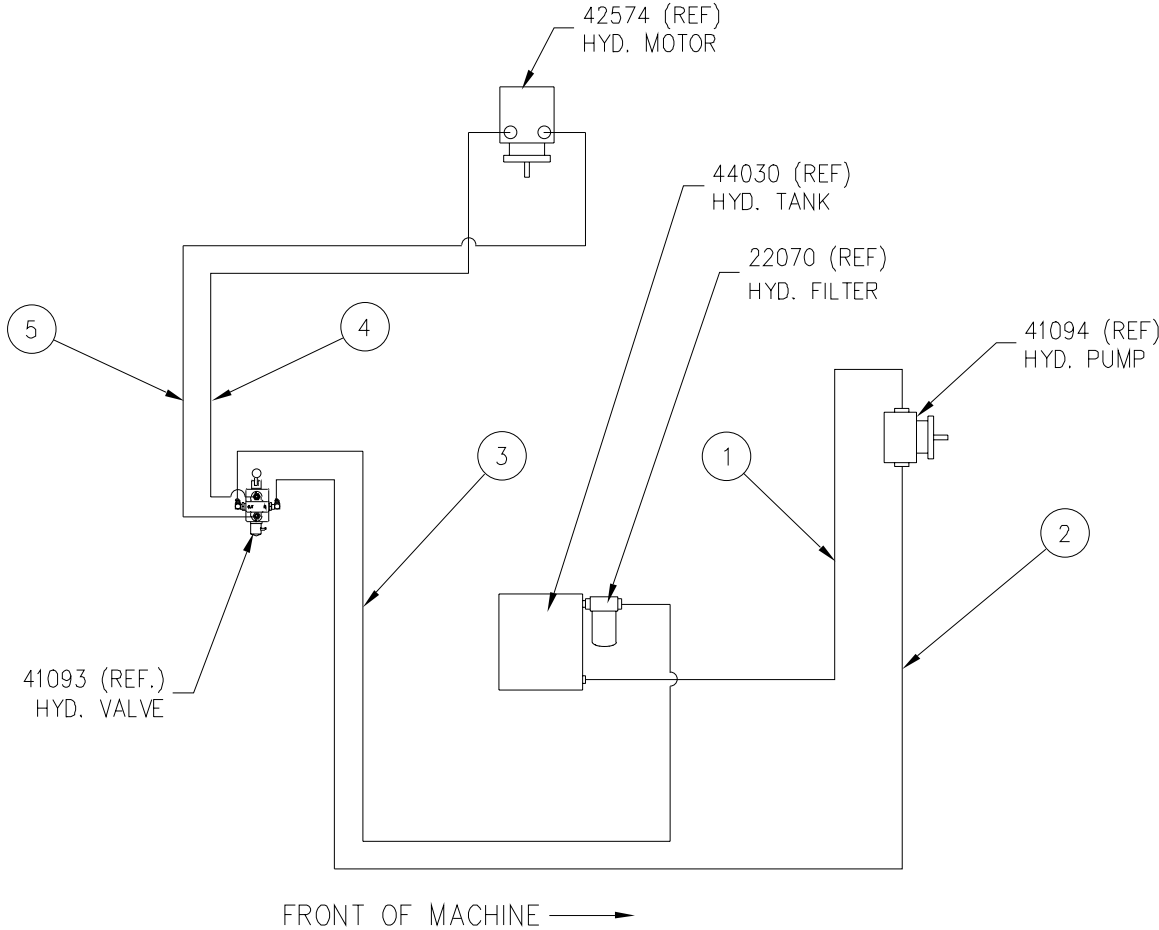
TechCrete MIXER

NUMBER	PART NUMBER	QTY	DESCRIPTION
51	-	-	NOT SHOWN
52	-	-	NOT SHOWN
53	-	-	NOT SHOWN
54	56264	2	NIPPLE, 3/4 X 13 LONG
55	56265	2	PIPE, BURNER
56	56270	2	EXHAUST DUCT ASSEMBLY
57	-	-	NOT SHOWN
58	-	-	NOT SHOWN
59	56288	1	PLATE, CONTROL MOUNTING
60	56290	2	PACKING GLAND ASSEMBLY
61	56293	2	BEARING, PILLOW BLOCK - 60 MM
62	56310	1	HYD TANK ASSEMBLY - TECHCRETE MIXER
63	-	-	NOT SHOWN
64	56317	2	SELECTOR VALVE
65	56325	1	HOOD ASSEMBLY
66	56326	1	H.O. DIPSTICK ASSEMBLY
67	56330	2	COVER, OVERFLOW PIPE
68	56332	1	KEY - 18 MM X 11 MM X 90 MM LONG
69	56334	1	COUPLING HALF - GEAR BOX
70	-	-	NOT SHOWN
71	-	-	NOT SHOWN
72	56350	1	TORCH ACCESS DOOR ASSEMBLY
73	-	-	NOT SHOWN
74	56358	1	DOOR SWING GATE ASSEMBLY
75	56362	2	BRACKET - SWITCH
76	56365	1	GRID ASSEMBLY

TechCrete MIXER

NUMBER	PART NUMBER	QTY	DESCRIPTION
NS (NOT SHOWN)	56302	1	HYDRAULIC PUMP
NS	56325	1	HOOD ASSEMBLY
NS	56340	1	HYDRAULIC VALVE
NS	56204	1	ENGINE
NS	56336	1	CONTROL BOX ASSEMBLY
NS	44829	1	COUPLING HALF 1"
NS	44830	1	SPIDER FOR COUPLING
NS	56303	1	COUPLING HALF
NS	44806	1	ADAPTER, PUMP MOUNT
NS	43465	1	RTD SENSOR - 18" STEM
NS	55120	1	RTD SENSOR - 2" STEM
NS	32243	1	IRON
NS	32246	1	SCRAPER
NS	32276	1	TOOL HEATER BOX
NS	32263	1	BUCKET
NS	32258	1	TANK SCRAPER
NS	56202	1	TECHCRETE TRAILER (OPTIONAL)

TechCrete MIXER HYDRAULIC DIAGRAM



TechCrete MIXER HYDRAULIC PARTS

1. HYDRAULIC RESERVOIR TO HYDRAULIC PUMP (SUCTION)		
1	29901	MALE CONNECTOR 3/4 TUBE X 1" NPT
1	C12-12FJ-12FJ9-22	SUCTION HOSE
1	29916	O'RING ADAPTER - 12MB-12MJ-90°
2. HYDRAULIC PUMP "REAR PORT" TO SELECTOR VALVE #1		
1	29828	90° O'RING ADAPTER
1	AX6-6FJ-6FJ9-40	3/8 X 40" HYDRAULIC HOSE
1	29841	FITTING, STRAIGHT MALE 6MJ X 8MP
3. HYDRAULIC PUMP "FRONT PORT" TO SELECTOR VALVE #2		
1	29828	90° O'RING ADAPTER
1	AX6-6FJ-6FJ9-36	3/8 X 36" HYDRAULIC HOSE
1	29841	FITTING, STRAIGHT MALE 6MJ X 8MP
4. SELECTOR VALVE #2 TO OUTLET PORT HYDRAULIC VALVE		
1	29844	ADAPTER, 8MJ X 8MP
1	AX8-8FJ-8FJ-23	1/2 X 23" HYDRAULIC HOSE
1	29912	1/2 SWIVEL NUT BRANCH "T"
1	29913	ADAPTER, 10 O'RING X 8 JIC STRAIGHT
5. SELECTOR VALVE #1 TO HYDRAULIC RESERVOIR (RETURN)		
1	29844	ADAPTER, 8MJ X 8MP
1	AX8-8FJ9L-8FJ-13.5	1/2 X 13-1/2 HYDRAULIC HOSE
1	29886	1/2 MALE RUN "T"
1	29909	STRAIGHT O'RING 16 X 8

TechCrete MIXER HYDRAULIC PARTS

6. HYDRAULIC VALVE "B" PORT TO HYDRAULIC MOTOR TOP PORT		
1	22029	STRAIGHT ADAPTER 6 X 10
1	AX6-6FJ-6FJ9-22	3/8 X 22" HYDRAULIC HOSE
1	29828	90° O'RING ADAPTER
7. HYDRAULIC VALVE "A" PORT TO HYDRAULIC MOTOR BOTTOM PORT		
1	29828	90° O'RING ADAPTER
1	AX6-6FJ-6FJ9L-27	3/8 X 27 HYDRAULIC HOSE
1	29828	90° O'RING ADAPTER
8. HYDRAULIC VALVE OUTLET TO HYDRAULIC RESERVOIR (RETURN)		
1	AX8-8FJ9-8FJ-24	1/2 X 24 HYDRAULIC HOSE
9. SELECTOR VALVE #1 TO HYDRAULIC VALVE INLET		
1	AX6-6FJ-8MP-18	3/8 X 18" HYDRAULIC HOSE
10. SELECTOR VALVE #2 TO HYDRAULIC VALVE INLET		
1	AX6-6FJ-8MP-18	3/8 X 18" HYDRAULIC HOSE
1	29866	3/8 JIC RUN "T"
1	22029	STRAIGHT ADAPTER 6 X 10

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