

CRAFCOTM **INC**

2 TON HOT BOX

2 TON HOT BOX OPERATING MANUAL

PART NUMBER 42900

This manual is furnished with each new CRAFCO 2 TON HOT BOX. The manual will help your machine operators learn to run the hot box properly and understand its mechanical functions for trouble-free operation.

Your CRAFCO 2 TON HOT BOX is designed to give excellent service and save maintenance expense. However, as with all specially engineered equipment, you can get best results at the 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.

May, 97

2 TON HOT BOX

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SAFETY PRECAUTIONS

High operating temperatures of hot mix material and Hot Box require protective clothing and gloves be worn by operator at all times.

Always wear eye protection.

Observe all CAUTION AND WARNING signs posted on machine.

Avoid bodily contact with hot mix material or serious burns may result.

Read Operator and Safety Manuals thoroughly before operating.

Make sure operator is familiar with Hot Box operation.

Do not operate in closed building or confined areas.

Shut-down Burner and pilot prior to refueling or changing propane bottles.

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

Do not exceed 350°F material temperature on burner control dial.

Follow operating instructions for starting and shut-down of Burner and Pilot Light.

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 Hot Box should not be left unattended with the propane burner or pilot lit.

CRAFCO, INC. assumes no Liability for an accident or injury incurred through improper use of the Hot Box.

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.

If in doubt, ask your local CRAFCO Distributor or call CRAFCO at 1-800-528-8242.

CRAFCO, INC.

2 TON HOT BOX LIMITED WARRANTY

CRAFCO, Inc. warrants to the original purchaser only, that each new CRAFCO machine excluding the heating system will be free from defects in material and workmanship for a period of one year from the date of delivery.

The responsibility of CRAFCO under this warranty is limited to replacement or repair of defective parts at CRAFCO's Chandler, Arizona factory, or at a point designated by it, of such parts as shall appear to CRAFCO, upon inspection at such point, to have been defective in material or workmanship. The labor covered by this warranty includes only that labor which is required to repair the defective part itself, and not that labor required to gain access to the part.

CRAFCO, Inc. shall only be liable when the equipment is used in compliance with those directions specified in the manufacturer's instructions.

The warranty provided herein extends only to the repair and / or replacement of those components of the equipment covered above, and does not extend to incidental or consequential damages incurred as a consequence of any defects covered by this warranty.

This warranty shall not apply to any machine or parts altered and modified without CRAFCO's consent, nor shall it apply to normal wear and tear or when misuse, negligence or accident are evident, or when machines have been operated at speed or loads beyond factory rated capacities or specifications.

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

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, serial number and a brief description of the warranty defect. A replacement part will be shipped immediately F.O.B. Chandler, Arizona, and invoiced.
- (3) Return the defective part to CRAFCO within fifteen (15) days of the date the claim was called in. Indicate on shipper, 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. 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.

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
Fax: (602) 961-0513

SPECIFICATIONS

| | |
|--------------------------------|--|
| Vat Capacity | 4,000 Lbs. (1814 Kg.) |
| Tank Construction | 14 Ga. Hot Rolled Steel |
| Maximum Heat Input | Vapor Burner 35,000 BTU's |
| Burner and Temperature Control | Automatic - Fail Safe - Pilot Ignition |

MACHINE START UP TO START BURNERS

Open LPG tank valve (1) Figure A. Open LPG regulator valve (2) Figure A. Lift shoveling chute so pilot and burner are visible. Open burner control box (1) Figure B.

Turn temperature control off (2) Figure B, turn pilot control to pilot (3) Figure B, push pilot control in and light pilot light by turning rotary sparker while holding pilot control in.

After pilot is lit, hold button for 30 seconds (if pilot fails to ignite, turn pilot valve off and repeat procedure.) If pilot does not remain lit when control is released, allow thermopile to heat.

Set temperature dial (2) Figure B to desired operating temperature. Burner should ignite. Close shoveling chute.

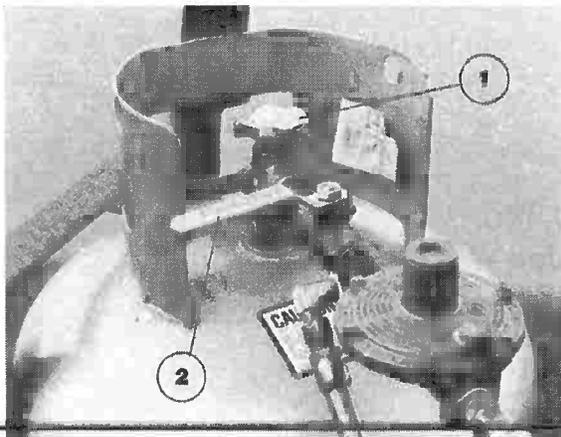


Figure A

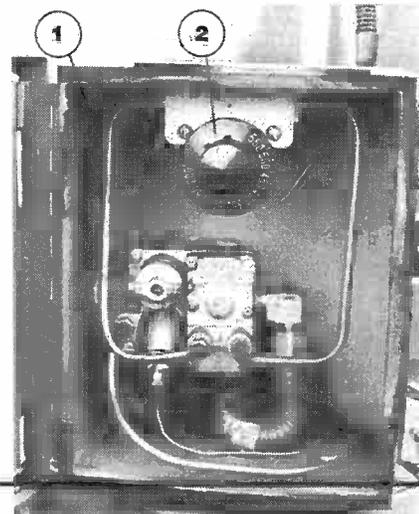


Figure B

SHUT DOWN PROCEDURE

Turn temperature control to off (2) Figure B. Turn pilot to off (3) Figure B. Close LPG regulator valve off (2) Figure A. Turn LPG tank valve off (1) Figure A.

OPERATIONAL PRECAUTIONS

The CRAFCO HOT BOX is designed to maintain bituminous concrete at application temperature for up to 48 hours.

The unit can also be used to reclaim cold bituminous concrete with overnight heating of 12 - 16 hours.

Unit should not be left unattended with burner or pilot lit.

Do Not transport with burner or pilot lit.

Latch top loading doors during transport. Shoveling chute must be down when transporting.

After loading hot mix material, clean excess material from top before closing lids, or damage to hinges will occur.

Use caution when loading material to prevent excess spillage.

Do not exceed vehicle axle capacity. Use a vehicle with a minimum of 5000 pound axle capacity.

Use adequate precautions to secure hot box in truck by using supplied turnbuckles or other suitable restraining devices.

Do not use with plastic truck bedliners or wooden decking material.

When cleaning, use caution to minimize spillage of these materials. Do not allow materials to flow under hot box where they could be ignited.

2 TON HOT BOX TROUBLE SHOOTING CHART

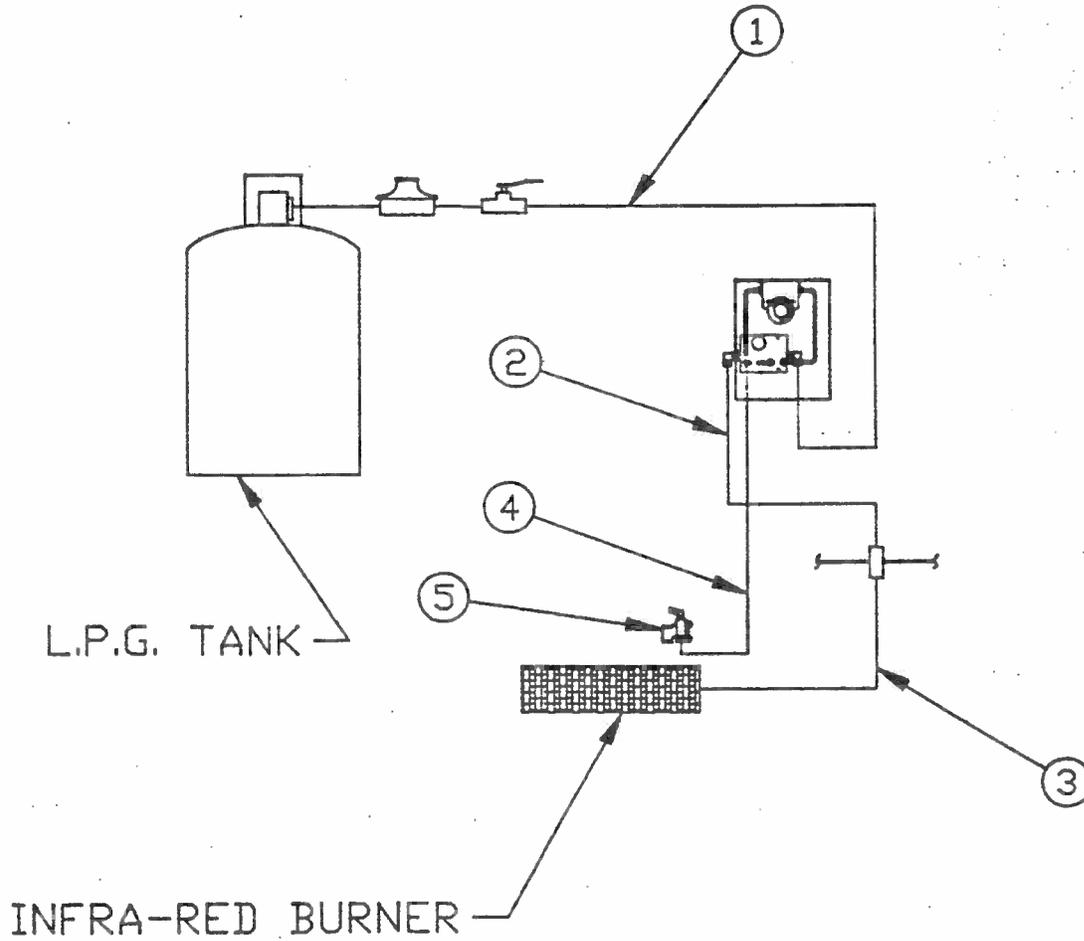
| PROBLEM | CAUSE | REMEDY |
|------------------------|--|---|
| Pilot will not light. | Low fuel pressure. | Check pressure. |
| | Orifice plugged. Thermopyle dislocated. | Clean orifice. Adjust so that 3/4" of tip is exposed to igniter flame. |
| | Thermopyle burned out. | Replace thermopyle. |
| Burner will not light. | Low fuel pressure. | Check pressure. |
| | Pilot not lit. | See above. |

SERVICE AND MAINTENANCE INSTRUCTIONS

1. Conduct a general inspection of your machine at least once a week. Replace all worn or damaged parts, make any necessary adjustments and tighten all loose nuts or screws.
2. Keep regular replacement items in stock for emergency repairs, to avoid costly "down" time.
3. Keep exterior of Hot Box clean using a suitable solvent.

NOTES:

| REVISIONS | | | |
|-----------|-----|----|-------------|
| DATE | REV | BY | DESCRIPTION |
| | | | |
| | | | |



L.P.G. PIPING DIAGRAM

| SIGNATURES | DATES |
|--|---------|
| DRAWN BY: DLT | 1/26/95 |
| APPROVED: | |
| THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO CRAFTCO INC., AND SHALL NOT BE USED FOR ENGINEERING, DESIGN, PROCUREMENT, OR MANUFACTURE IN WHOLE OR IN PART WITHOUT CONSENT OF CRAFTCO INC. | |
| TOLERANCES: (UNLESS OTHERWISE SPECIFIED) | |
| X | ± .06 |
| XX | ± .03 |
| XXX | ± .015 |
| ANGLES ± 1/2° | |

CRAFTCO INC.

TITLE L.P.G. PIPING DIAGRAM
HOTBOX

| | | |
|------|---------|------|
| SIZE | DWG NO. | REV. |
| A | 26543 | 0 |

MATERIAL

| | | |
|-------|----------------------|--------------|
| SCALE | DO NOT SCALE DRAWING | SHEET 1 OF 1 |
| N/A | | |

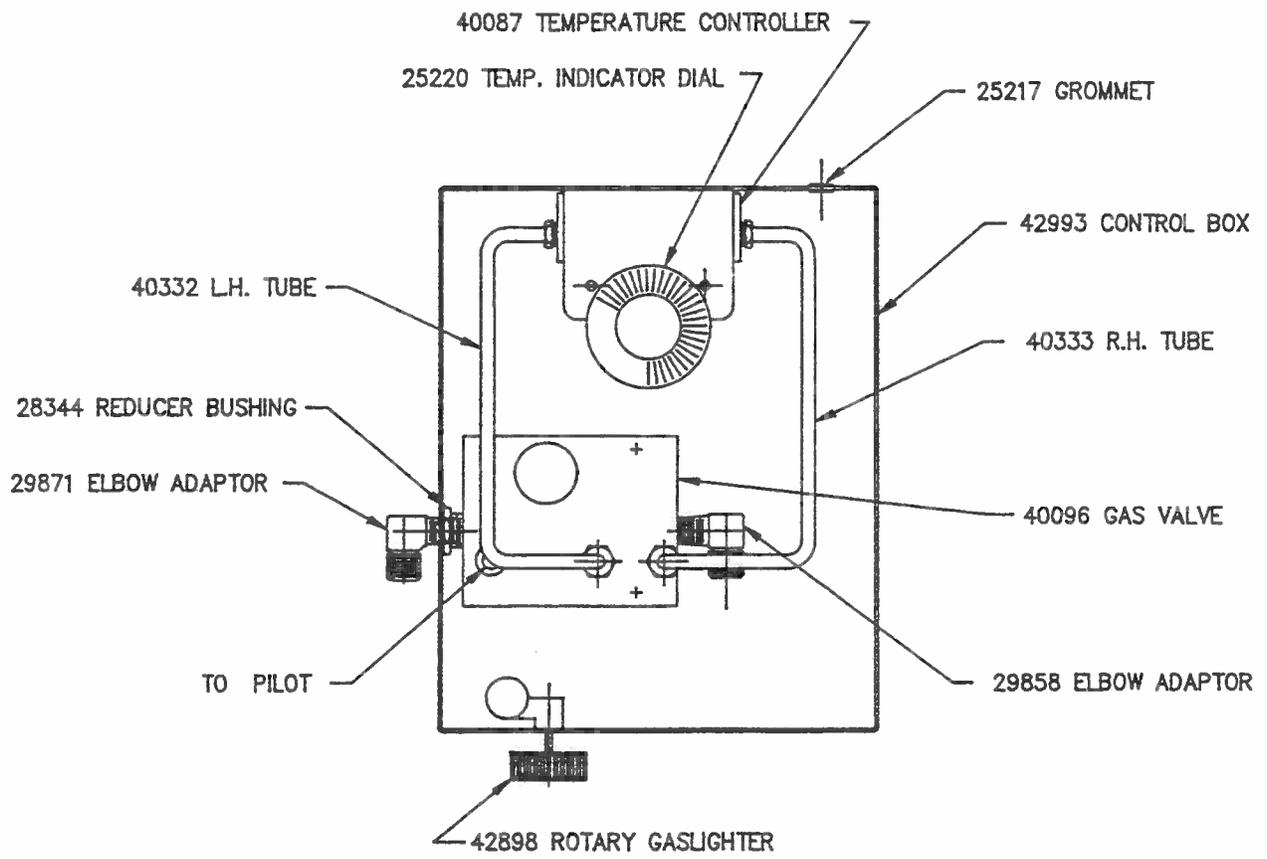
LPG PIPING SEQUENCE HOT BOX

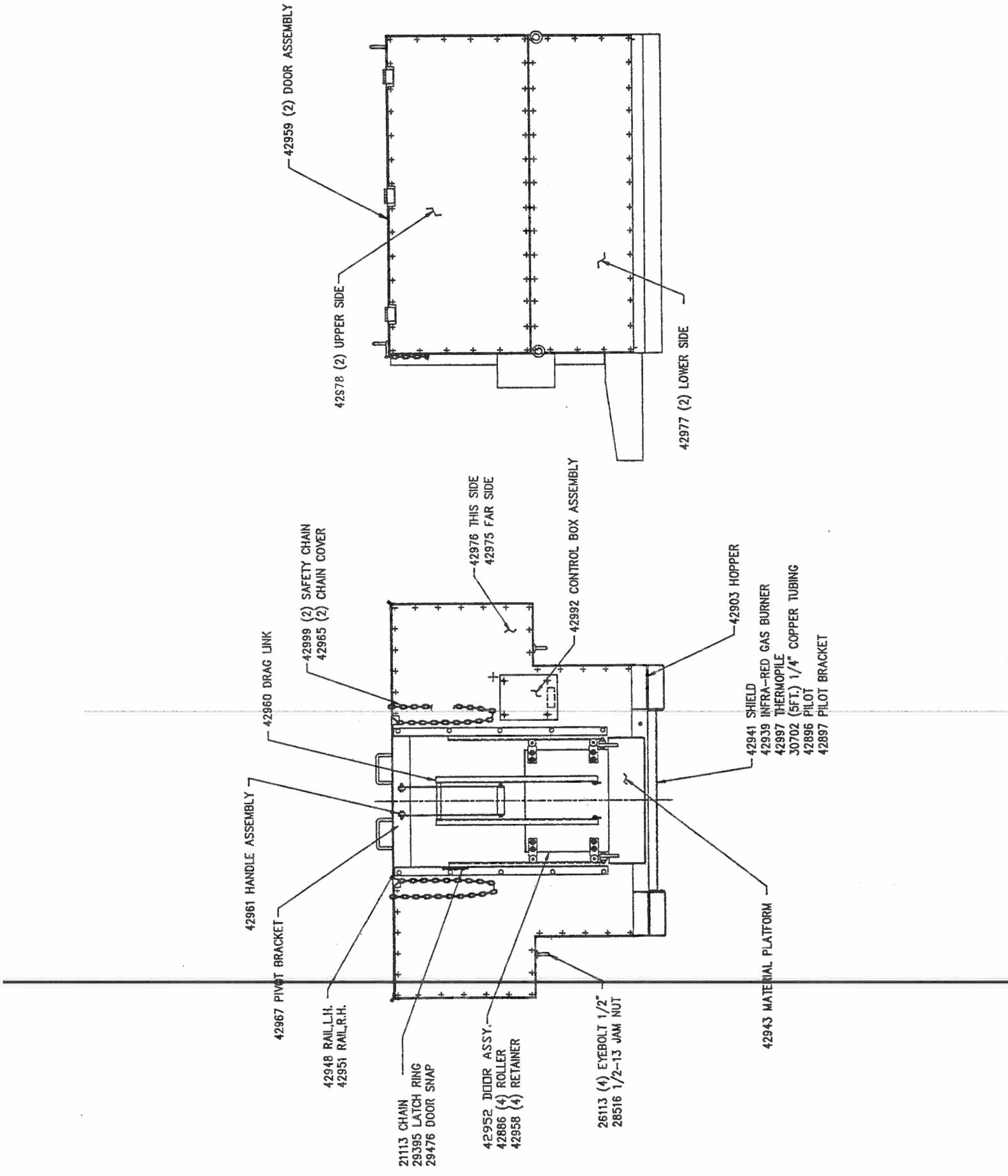
| 1. TANK TO CONTROL BOX | | |
|-------------------------------|-------|-----------------------|
| 1 | 25123 | Tank Spud |
| 1 | 25218 | Pilot Light Regulator |
| 1 | 28342 | Bushing |
| 1 | 28001 | 1/4 Close Nipple |
| 1 | 29195 | 1/4 Bronze Ball Valve |
| 1 | 29839 | Straight Adaptor |
| 1 | 25139 | Hose 3/8 x 120" Long |

| 2. CONTROL BOX TO BULKHEAD | | |
|-----------------------------------|-------|---------------------|
| 1 | 25146 | Hose 3/8 x 23" Long |
| 1 | 29872 | Elbow Adaptor |

| 3. BULKHEAD TO BURNER | | |
|------------------------------|-------|---------------|
| 1 | 29859 | Elbow Adaptor |
| 1 | 40345 | Gas Line |
| 1 | 29859 | Elbow Adaptor |

| 4. GAS VALVE TO PILOT | | |
|------------------------------|-------|---------------------|
| 1 | 29475 | 1/4" Flare Tube Nut |
| 5 Ft. | 30702 | 1/4" Copper Tubing |
| 1 | 29475 | 1/4" Flare Tube Nut |





**Pioneering Leadership and
Innovation in Quality
Pavement Maintenance
Materials.**

CRAFCOTM **INC**

**6975 W. Crafcow Way • Chandler, Arizona 85226
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