

TECHNICAL MANUAL

Steam jacketed kettle, direct steam, models KDL-20, KDL-30, KDL-40, KDL-60, KDL-80, KDL-20T, KDL-30T, KDL-40T, KDL-60T, KDL-80T, KDP-20, KDP-30, KDP-40, KDP-60, KDP-80, KDP-20T, KDP-30T, KDP-40T, KDP-60T, KDP-80T.

CLEVELAND RANGE, INC.
1333 EAST 179TH STREET
CLEVELAND, OHIO 44110
FSCM 13059

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S6161-PK-FSE-010

TECHNICAL MANUAL

Steam jacketed kettle, direct steam.

Federal specs: RR-K-195J; Type-1; Style-1; Class-B

This manual is to be used for the following models: KDL-20, KDL-30, KDL-40, KDL-60, KDL-80, KDL-20T, KDL-30T, KDL-40T, KDL-60T, KDL-80T, KDP-20, KDP-30, KDP-40, KDP-60, KDP-80, KDP-20T, KDP-30T, KDP-40T, KDP-60T, KDP-80T.

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APPROVAL & PROCUREMENT RECORD PAGE

APPROVAL DATA FOR: Defense General Supply Center Technical Manual for
Steam Jacketed Kettle, Direct Steam

PUBLICATION/CONTROL NUMBR: S6161-PK-FSE-010/13059

APPROVAL AUTHORITY: Defense General Supply Center letter dated December 1992

CONTRACT NUMBER	NSN	NO. OF UNITS	MODEL NO.	VOLTAGE OTHER ID	MANUALS
DLA400-89-M-M598	7310-01-166-8462	4	KDL-40		8
DLA400-90-M-A098	7310-01-166-8462	3	KDL-40		6
DLA441-92-C-1045	7310-01-254-7896	12	KDL-80		24
SPO441-94-M-U403	7310-01-386-7728	1	KDL-60		2
SPO441-94-M-CU31	7310-00-148-7186	2	KDP-60-T		4
SPO441-95-M-2111	7310-01-254-7896	5	KDL-80		10
SPO441-95-M-ES62	7310-01-031-0886	1	KDL-40-T		2
SPO441-95-M-2614	7310-01-246-2257	3	KDL-30		6

REMARKS:

DATE: December 1994

CERTIFICATION:

It is hereby certified that the DGSC Technical Manual for
Kettle Steam Jacketed Direct Steam Model KDL-30 to be
provided under Contract SPO441-95-M-2614 has been approved by the approval data shown above.

John Lanning
Director, Government Sales
Cleveland Range, Inc.
1333 East 179th Street
Cleveland, Ohio 44110

IDENTIFYING TECHNICAL PUBLICATION SHEET

1. Identification Data: Steam Jacketed Kettle; Model KDL-30
2. Purpose: This technical publication is issued for the purpose of identifying an authorized technical manual for Navy use and for providing supplemental technical information.
 - (a) Manufacturer: Cleveland Range, Inc.
1333 East 179th Street
Cleveland, OH 44110
 - (b) Contract No.: SPO441-95-M-2614
 - (c) Equipment: Steam Jacketed Kettle
 - (d) Requisition No.: N/A
 - (e) National Stock No: 7310-01-246-2257
 - (f) Title of Technical Manual: Steam Jacketed Kettle, Direct Steam, 30 gallon, Bulk Head Mounted,
 - (g) Date of Publication:
 - (h) Preparing Activity: Defense General Supply Center, Richmond, VA
 - (i) Applicable TMCR No:
 - (j) Extent of Proposed Supplemental Data (10% Maximum): None
 - (k) List of Technical manuals for this equipment procured under another contract: none
3. Additional copies are available from:

Naval Publication & Forms Center
5801 Tabor Avenue
Philadelphia, PA 19120-5099
4. Cover: The technical manual outside cover shall contain the following statement(s):

This publication is required for official use or for administrative or operational purposes. Distribution is limited to U.S. Government agencies only. Other requests must be referred to Commander, Naval Systems Command, SEA09, Washington, D.C. 20362

SAFETY SUMMARY

The following are general safety precautions that are not related to any specific procedures and therefore do not appear elsewhere in this publication.

BURNS: Personnel working with or servicing this kettle should be familiar with the proper treatment of burns caused by steam. Such information may be obtained from the Bureau of Medicine and Surgery.

The following warnings and cautions appear in the text in this volume, and is repeated here for emphasis:

WARNING: Steel wool should never be used for cleaning the cooking chamber of the kettle. Particles of the steel wool become embedded in the cooking surface and rust, any may corrode the stainless steel.

WARNING: Always turn off equipment power before using water to wash equipment. Do not hose down the kettles.

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Repair Manual

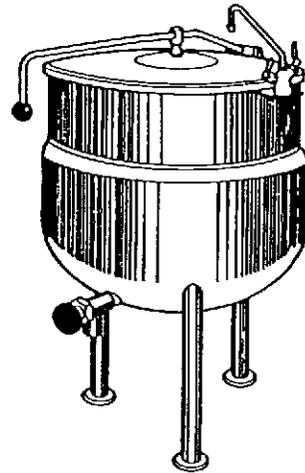
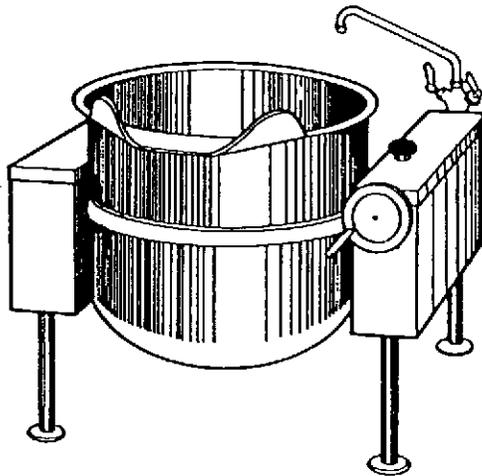
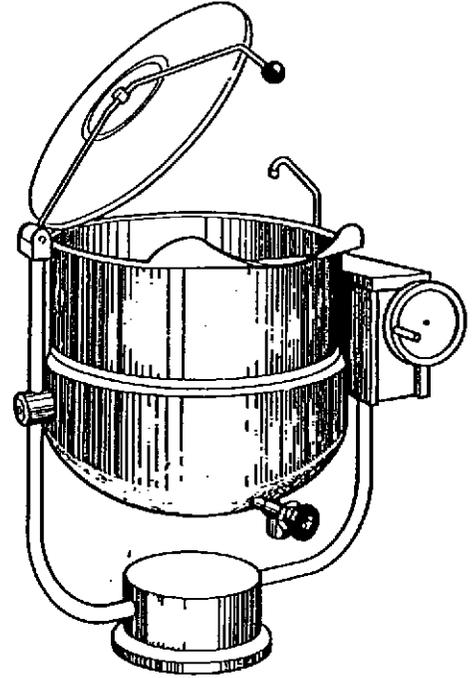
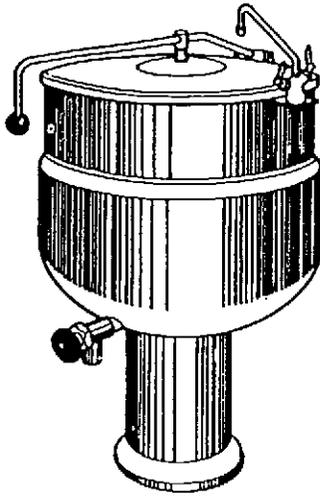
Tri-Leg and Pedestal Direct Steam Kettle

Model KDL

KDL-T

KDP

KDP-T



0185

Cleveland|ALCO

A Division of ALCO Foodservice Equipment Company

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Phone: (216) 481-4900 • Telex: 98-0546

Facsimile: 216-481-3782

Cleveland Range, Ltd.: Canadian Office and Factory

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Cleveland Range Co. reserves right of design improvement or modification. AS warranted.

WARRANTY AND EXTENDED WARRANTY COVERAGE

LIMITED WARRANTY

Cleveland Range products are warranted to the original purchaser to be free from defects in material and workmanship under normal use and service for the standard warranty period**

Cleveland Range agrees to repair or replace, at its option, f.o.b. factory, any part which proves to be defective due to defects in material or workmanship during the warranty period, providing the equipment has been unaltered, and has been PROPERLY INSTALLED, MAINTAINED, AND OPERATED IN ACCORDANCE WITH THE CLEVELAND RANGE OWNER'S MANUAL.

CLEVELAND RANGE agrees to pay any FACTORY-AUTHORIZED EQUIPMENT SERVICE AGENCY (within the continental United States, Hawaii, and Canada) for reasonable labor required to repair or replace, at our option, f.o.b. factory, any part which proves to be defective due to defects in material or workmanship, during the labor warranty period. This warranty includes travel time not to exceed two hours and mileage not to exceed 50 miles (100 miles round-trip), but does not include tightening loose fittings, minor adjustments, maintenance, cleaning or descaling.

The standard labor warranty allows factory payment of reasonable labor required to repair or replace such defective parts. Cleveland Range will not reimburse the expense of labor required for the repair or replacement of parts after the standard warranty period* unless an Extended Labor Warranty Contract has been purchased to cover the equipment for the balance of the warranty period from the date of equipment installation, start-up, or demonstration.

PROPER INSTALLATION IS THE RESPONSIBILITY OF THE DEALER, THE OWNER-USER, OR INSTALLING CONTRACTOR, AND IS NOT COVERED BY THIS WARRANTY. Many local codes exist, and it is the responsibility of the owner and installer to comply with these codes. Cleveland Range equipment is built to comply with applicable standards for manufacturers, including UL, A.G.A., NSF, ASME/Int. Bd., CSA, CGA, ETL, and others.

BOILER MAINTENANCE IS THE RESPONSIBILITY OF THE OWNER-USER, AND IS NOT COVERED BY THIS WARRANTY. The use of good quality feed water is the responsibility of the owner-user. The use of poor quality feed water could void equipment warranties. Boiler maintenance supplies, including boiler hand gaskets are not warranted beyond the first 90 days after the date the equipment is placed into service if no preventive maintenance records are available showing descaling every 90-120 days (Descaling has to be performed according to instructions and with materials available from Cleveland Range).

The foregoing shall constitute the sole and exclusive remedy of original purchaser and the full liability of Cleveland Range for any breach of warranty. THE FOREGOING IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL, OR IMPLIED, INCLUDING ANY WARRANTY OF PERFORMANCE, MERCHANTABILITY, OR FITNESS FOR PURPOSE, AND SUPERSEDES AND EXCLUDES ANY ORAL WARRANTIES OR REPRESENTATIONS, OR WRITTEN WARRANTIES OR REPRESENTATIONS, NOT EXPRESSLY DESIGNATED IN WRITING AS A "WARRANTY" OR "GUARANTEE" OF CLEVELAND RANGE MADE OR IMPLIED IN ANY MANUAL, LITERATURE, ADVERTISING BROCHURE OR OTHER MATERIALS.

Cleveland Range's liability on any claim of any kind, including negligence, with respect to the goods or services covered hereunder, shall in no case exceed the price of the goods or services, or part thereof, which gives rise to the claim. IN NO EVENT SHALL CLEVELAND RANGE BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES IN THE NATURE OF PENALTIES.

LIMITED EXTENDED WARRANTY COVERAGE

The purchase of an Extended Warranty Contract extends the standard warranty coverage to the purchased period of time (one to four years) from the date of installation, start-up, or demonstration, whichever is sooner.

* Free on Board

** 5 years parts and 3 years labor

Cleveland Range, Inc.

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Phone: (216) 481-4900 • Telex: 98-0546 • Facsimile: 216-481-3782

Toll Free: 1-800-338-2201

INSTALLATION INSTRUCTIONS

Upon receipt of your kettle, inspect the unit thoroughly, and if any damage has been incurred during shipment, report such damage immediately to both the carrier and manufacturer.

1. Remove kettle from carton.
2. Locate the desired height for the kettle on the wall to be mounted on. There are six 1/2" bolts needed to mount each kettle.
3. Mount kettle to wall using dimensions between bolts on accompanying drawing on page 4
4. Install service connection as required. The steam inlet is on the right hand side of the kettle as seen from the front. The condensate return is on the bottom of the kettle.

NOTE: All service lines to and from the kettle and steam boiler should be thoroughly cleaned and inspected for dirt and debris before the final hook-up to the kettle is made.

Installation of this unit must be done by qualified installation personnel working to all applicable local and national codes.

FINAL INSTALLATION CHECK

1. Partially fill the kettle with water.
2. Turn the steam supply valve on slowly.
3. Release the safety valve, insuring that the steam escapes freely.
4. Observe that the water in the kettle comes to a boil. Allow approximately 2 to 5 minutes per gallon of water.

WARNING: Stay clear of steam exhaust when releasing the safety valve.

NOTE

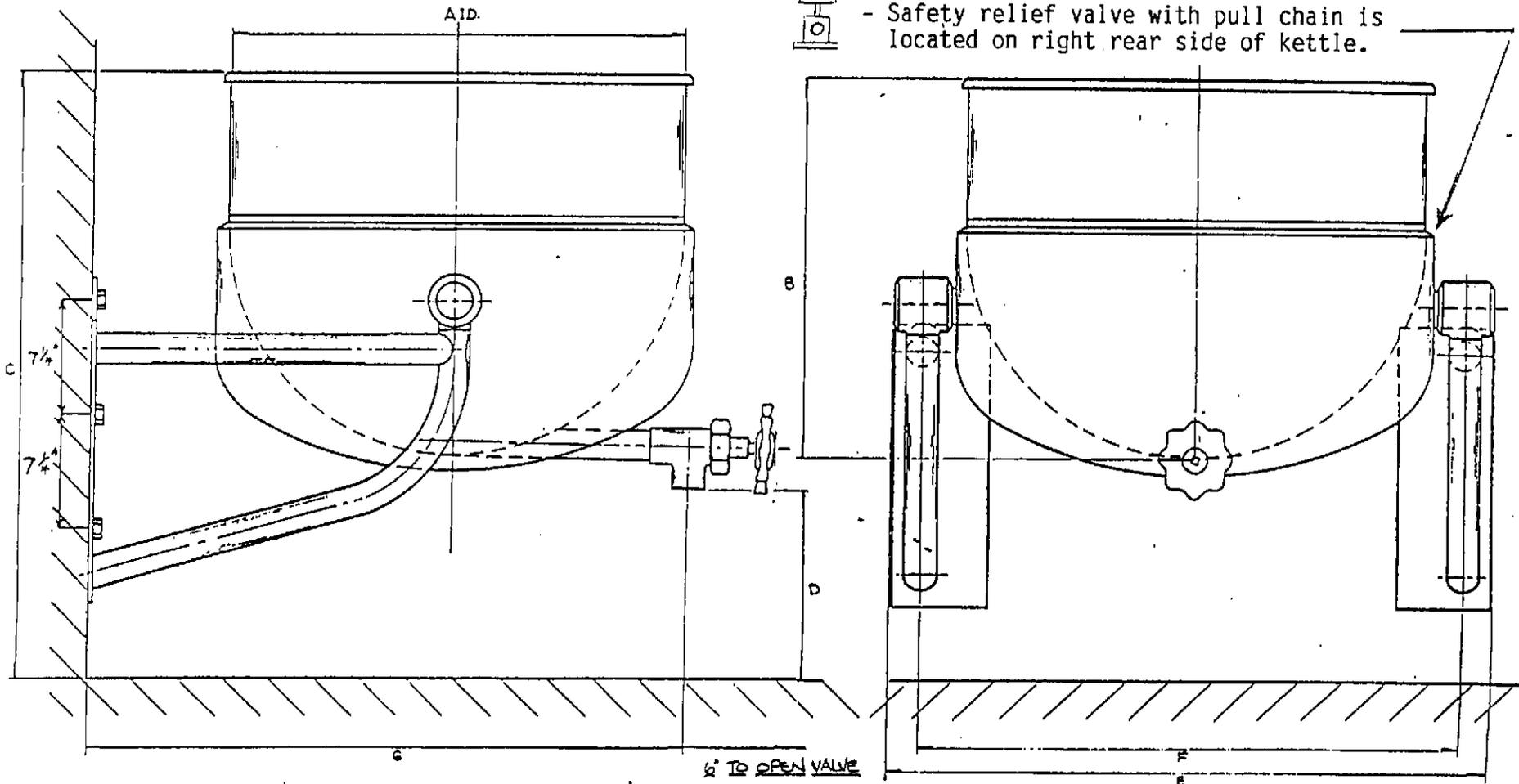
DIMENSION 'C' IS RECOMMENDED HEIGHT
 SANITARY DRAW-OFF VALVE IS $\frac{1}{2}$ " ϕ

SIZE	A	B	C	D	E	F	G
25 GALLON	21	20 $\frac{1}{2}$	57	14 $\frac{1}{4}$	28 $\frac{1}{2}$	25 $\frac{1}{2}$	27 $\frac{1}{8}$
30 GALLON	24	20	57	14 $\frac{3}{4}$	31 $\frac{1}{2}$	28 $\frac{1}{2}$	27 $\frac{3}{8}$
40 GALLON	26	22 $\frac{1}{2}$	57	12 $\frac{1}{4}$	33 $\frac{1}{2}$	30 $\frac{1}{2}$	29 $\frac{3}{8}$

All dimensions are in inches



- Safety relief valve with pull chain is located on right rear side of kettle.



6" TO OPEN VALVE

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF BARDEAU LTD. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF BARDEAU LTD.

CLEVELAND LTD.

(BUCK HEAD STYLE)
 DIRECT STEAM WALL MOUNTED
 TUBULAR FRAME KETTLE

REV. NO.	REV. DATE	DESCRIPTION	REV. NO.	REV. DATE	DESCRIPTION

DRAWING NO.	KE95127	REVISION NO.	A
SCALE	NONE	ISSUE DATE	DEC. 27/83
DRAWN BY	S. McNEELY		

OPERATION

Ensure that there is an adequate steam supply to the kettle.

For optimum performance on free-standing (non-cabinetized) floor model tilting kettles only: Before filling a cool kettle, open the drain petcock to drain condensate from the kettle's jacket, then close the drain petcock.

If the kettle is equipped with a tangent draw-off valve, ensure that it is closed before filling the kettle. To keep solid food particles out of the draw-off valve, place either the solid or the perforated disc (strainer) in the bottom of the kettle. Use the solid disc if the liquid is to be retained, and the perforated disc if the liquid is to be drained off.

Turn the steam control valve to the full open position by turning the knob counter-clockwise, then allow the kettle to pre-heat.

NOTE:

When cooking egg and milk products, the kettle should not be pre-heated, as products of this nature adhere to hot cooking surfaces. These types of foods should be placed in the kettle before heating is begun.

Fill the kettle with product to the desired level.

When the product has reached the desired temperature, regulate the heat, as required, by turning the steam control valve clockwise for less steam, and therefore, a lower temperature.

When cooking is complete, close the steam control valve by turning the knob clockwise until it stops turning.

Power-pour kettles are provided with a rocker-type center-off switch for raising and lowering the kettle. To raise the kettle, press the top of the switch. To lower the kettle, press the bottom of the switch. Release the switch, allowing it to return to the center "off" position when the desired degree of tilt has been reached. Limit switches are provided that automatically stop the tilt motion at the maximum limit of movement in either direction.

(Some older model, manual tilting, modular kettles, are provided with a handwheel for raising and lowering the kettle. To raise the kettle, turn the handwheel clockwise. To lower the kettle, turn the handwheel counter-clockwise.)

For kettle/steamer combinations: If the boiler in a steamer is supplying steam to a kettle, always heat the kettle first. After the kettle contents are heated, and the boiler's steam pressure returns to normal, the steamer may be used. Pressure steamer compartments should be sequentially started, and preheated before cooking.

NOTE:

As with cleaning food soil from any cookware, an important part of kettle cleaning is to prevent foods from drying on. For this reason, cleaning should be completed immediately after cooked foods are removed. Refer to the "Care and Cleaning" instructions for detailed kettle washing procedures.

CARE AND CLEANING

Your Cleveland kettle must be cleaned regularly to maintain its fast, efficient cooking performance, and to ensure its continued safe, reliable operation.

1. Prepare a warm water and mild detergent solution in the kettle.
2. Remove food soil inside the kettle using a nylon brush. Do not use a metal bristle brush, as this may permanently damage the kettle's stainless steel surface.
3. Loosen food which is stuck to the kettle by allowing it to soak at a low temperature (simmer or low boil).
4. Open the draw-off valve or tilt the kettle forward to drain the wash water.

If the kettle is equipped with a draw-off valve, it should be cleaned as follows:

- a. Remove the drain strainer from the bottom of the kettle. Thoroughly wash and rinse the strainer, either in a sink or a dishwasher, then replace it into the kettle.
 - b. Disassemble the draw-off valve, first by turning the valve knob counter-clockwise, then turning the large hex nut counter-clockwise, until the valve stem is free of the valve body.
 - c. In a sink, wash and rinse the valve stem, hex nut, and knob. Wash and rinse the inside of the valve body using a nylon brush. Kettle brushes and other accessories are available from the Cleveland Range Company.
 - d. Reassemble the draw-off valve by reversing the procedure for disassembly. The valve's hex nut should be hand tight only.
5. Rinse the kettle interior thoroughly, then drain the rinse water.
 6. Leave the cover and draw-off valve open when the kettle is not in use.
 7. Using mild soapy water and a damp sponge, wash the exterior of the kettle, rinse, and dry. Avoid soaking the electric control panel.

NOTE:

For more difficult cleaning applications, one of the following can be used: alcohol, baking soda, vinegar, or a solution of ammonia in water. Avoid the use of chloride cleansers, which may damage the kettle's stainless steel surface.

WARNING:

Steel wool should never be used for cleaning the cooking chamber of the kettle. Particles of the steel wool become embedded in the cooking surface and rust, and may corrode the stainless steel.

WARNING:

Always turn off equipment power before using water to wash equipment.
Do not hose down the kettle.

MAINTENANCE

Cleveland kettles require very little preventive maintenance, other than daily cleaning. Some kettles are equipped with handwheel tilting mechanisms, which require periodic preventive maintenance to assure continued trouble-free operation. Inspect the worm screw, tilting gears, and bearings occasionally (at least once a year). Lubricate as required using a high temperature grease.

Each kettle is equipped with a steam trap in the line from the kettle outlet to the drain, to remove the condensate that forms inside the steam jacket. A good steam trap at startup releases air and wet steam into the drain line for a few minutes, then holds the steam within the steam jacket. During cooking, the trap periodically releases accumulated condensate. If the kettle's cooking performance becomes inadequate after long use, replacement of the steam trap with a new one may restore kettle operation to peak efficiency.

Caution

Draw-off Valve Maintenance:

To correct a leak at the draw-off valve, the source of the leak must first be determined. Leaks from around the valve stem are corrected by simply replacing the "O" ring. Faulty seating of the valve stem disc against the valve body seat may cause dripping from the valve even when the valve is tightly closed. This can often be corrected by cleaning any residue from the disc and seat.

Cleveland/ALCO supports a worldwide network of Maintenance and Repair Centers, which are regional distributors of parts and service. Contact your nearest Maintenance and Repair Center for the name of an authorized service agency in your area, or for replacement parts, or information regarding the proper maintenance and repair of your equipment. In order to preserve the various agency safety certifications (UL, A.G.A., CSA, CGA, NSF, ASME/Ntl. Bd., etc.), only factory-supplied replacement parts should be used. The use of other than factory-supplied replacement parts will void the warranty.

Draw-off Valve Disassembly and Assembly:

Disassemble the draw-off valve, first by turning the valve knob counterclockwise, then turn the large hex nut counterclockwise until the valve stem is free of the valve body.

In a sink, wash and rinse the valve stem, hex nut, and knob. Wash and rinse the inside of the valve body using a nylon brush.

Reassemble the draw-off valve by inserting the valve stem into the valve body. Turn the large hex nut clockwise until hand tight. To close the draw-off valve turn the valve knob clockwise.

NOTE

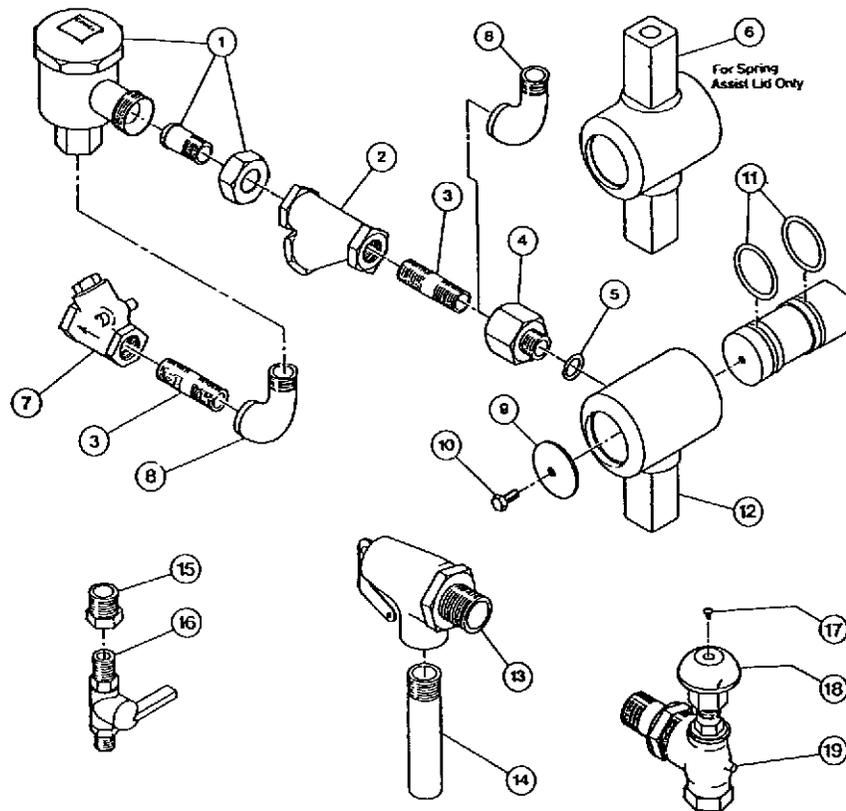
The valve's hex nut should be hand tight only.

MODEL KDL, KDL-T, KDP, KDP-T OPERATING CONTROLS AND INDICATORS

For your better understanding and confidence, the following explanation of the control system used on this kettle is offered.

Item No.	Description	Function
4	Steam Inlet Valve (Control Housing Dwg.)	Opens and closes the steam supply to the kettle. (See page 11)
15	Hand Wheel (Control Housing Dwg.)	Turn to tilt kettle for pouring. (See page 11)
13	Pressure Relief Valve (Steam Control Parts Dwg.)	In the unlikely event that there is an excess steam build-up in the jacket, this valve automatically opens to relieve this pressure. (See page 10)
16	Drain Cock (Steam Control Parts Dwg.)	Used to drain condensate from bottom of tilting units only. (See page 10)
1-7	Draw-Off Valve (Draw-Off Valve Dwg.)	This valve is used to empty the kettle of either food product or wash water. It is supplied as standard equipment on stationary models and is optional on tilting kettles. (See page 10)
20	Power Tilt Control Switch (Power Tilt Control Housing Dwg.)	This switch allows the operator to tilt the kettle up or down (See page 13)

MODEL KDL, KDL-T, KDP, KDP-T STEAM CONTROL



Item No.	Part No.	Description	Qty.
1	KE51248	1/2" Steam Trap	1
2	KE51249	1/2" Strainer	1
3	FI00596	Nipple 1/2 NPT x 1 1/2" LG.	2
*4	KE50676	Connector	1
*5	FA00014	"O" Ring	1
*6	KE00353	Trunnion Bearing Casting	1
7	KE51250	1/2" Check Valve	1
8	FI05025	90° Elbow (Chrome Plated)	2
*9	KE50666	Spherical Washer	1
*10	KE00349	Screw 5/16" - 18	1
*11	FA00218	"O" Ring	2
*12	KE00352	Trunnion Bearing Casting	1
13	KE50220	3/4" Pressure Relief Valve	1
14	KE50221	Blow Down Tube	1
*15	FI00352	Reducer Bushing 1/2 x 3/8	1
*16	KE50675	Drain Cock	1
17-19	SE00009	3/4" Chrome Steam Inlet Valve Assy.	1
17	FA11501	Valve Knob Screw	1
18	KE50442	Valve Knob	1
19	KE51259	3/4" Chrome Steam Inlet Valve (Item No. 17, 18 not included)	1

* Applicable to Tilting Models Only

Use only replacement parts which are factory supplied as to preserve the certification of Underwriters Laboratories, American Gas Association, Canadian Standards Association or Canadian Gas Association (as applicable). The use of other than factory supplied replacement parts will void the warranty.

REPAIR MANUAL

MODEL KDL, KDL-T, KDP, KDP-T STEAM CONTROL

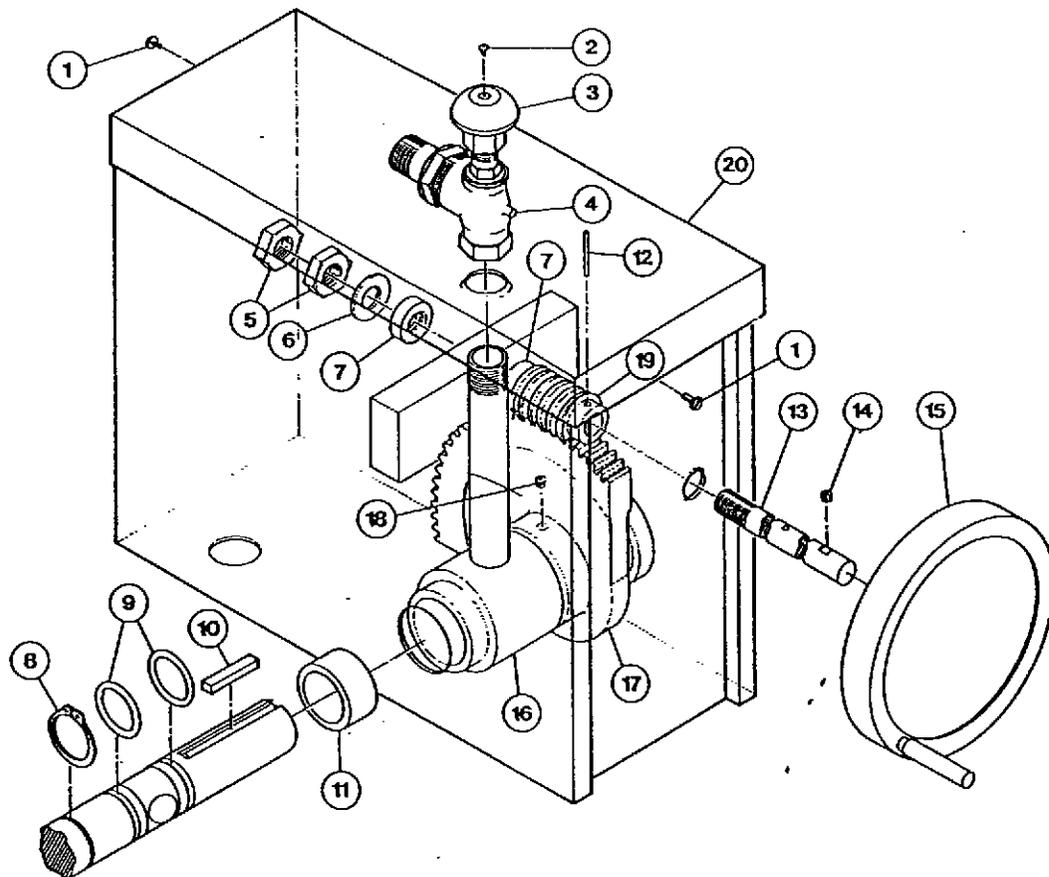
NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
1	KE51248	13059	KE51248	13059
2	KE51249	13059	59-003-01	Conbraco Industries P.O. Box 60034 Charlotte, NC 28260
3	F100596	13059	F100596	13059
4	KE50676	13059	KE50676	13059
5	FA00014	13059	A-014-E50	Able-O-Rings 5511 Steeles Ave. West - Unit #5 Weston, Ontario, Canada M9L 1S7
6	KE00353	13059	KE00353	13059
7	KE51250	13059	#236 RED	Beaver Wholesale 45 Cranfield Rd. Toronto, Ontario, Canada
8	F105025	13059	F105025	13059
9	KE50666	13059	KE50666	13059
10	KE00349	13059	KE00349	13059
11	FA00218	13059	A-218-EPDM-E515	Able-O-Rings 5511 Steeles Ave. West - Unit #5 Weston, Ontario, Canada M9L 1S7
12	KE00352	13059	KE00352	13059
13	KE50220	13059	10-301-FA	Conbraco Industries, Inc. P.O. Box 60034 Charlotte, NC 28260
14	KE50221	13059	KE50221	13059
15	F100352	13059	F100352	13059
16	KE50675	13059	KE50675	NED Valves Limited (416-661-6020) P.O. Box 2036 - Station C Downsview, Ontario, Canada M3N 2S8

REPAIR MANUAL

MODEL KDL, KDL-T, KDP, KDP-T STEAM CONTROL

NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
17	FA11501	13059	FA11501	13059
18	KE50442	13059	KE50442	Plastmade Industries Limited 115 Matheson Blvd. East Mississauga, Ontario, Canada L4Z 1X8
19	KE51259	13059	KE51259	13059

MODEL KDL-T AND KDP-T CONTROL HOUSING



Item No.	Part No.	Description	Qty.
1	FA11134	Screw #10-24	2
2-4	SE00010	3/4" Brass Steam Inlet Valve Assy.	1
2	FA11501	Valve Knob Screw	1
3	KE50442	Valve Knob	1
4	KE00350	3/4" Brass Steam Inlet Valve (Item No. 2, 3 not incl.)	1
5	FA95008	Lock Nut 3/4 - 16	2
6	FA30088	Tilt Shaft Washer	1
7	KE50317	Thrust Bearing	2
8	FA95007	Trunnion Retaining Ring	1
9	FA00218	Trunnion "O" Ring	2
10	FA95012	Worm Gear Key	1
11	KE50304	Trunnion Bearing	1
12	FA95005	Tension Pin	1
13	KE50375	Tilt Shaft	1
14	FA19501	Hand Wheel Allen Screw	1
15	KE00508	Hand Wheel	1
16	KE00164	Steam Inlet Bearing Housing	1
17	KE00151	Worm Gear	1
18	FA19186	Worm Gear Allen Screw	1
19	KE50315	Worm	1
20	KE50324	Console Cover	1

Use only replacement parts which are factory supplied as to preserve the certification of Underwriters Laboratories, American Gas Association, Canadian Standards Association or Canadian Gas Association (as applicable). The use of other than factory supplied replacement parts will void the warranty

REPAIR MANUAL

MODEL KDL-T AND KDP-T CONTROL HOUSING

NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
1	FA11134	13059	FA11134	Atlas Alloys (416-622-3100) 161 The West Mall Etobicoke, Ontario, Canada M9C 4V8
2-4	SE00010	13059	SE00010	13059
2	FA11501	13059	FA11501	13059
3	KE50442	13059	KE50442	Plastmade Industries, Ltd. 115 Matheson Blvd. East Mississauga, Ontario, Canada L4Z 1X8
4	KE00350	13059	KE00350	13059
5	FA95008	13059	#HN-66	Spae Naur, Inc. (416-868-1629) P.O. Box 544 Kitchener, Ontario, Canada N2G 4B1
6	FA30088	13059	3/4" BOLT x 1"	Accurate Fasteners, Ltd. 74 Edilcan Dr. Concord, Ontario, Canada L4K 3S5
7	KE50317	13059	Thrust Bearing-E5	Canadian Bearings (416-670-6700) 1401 Courtney Park Dr. East Mississauga, Ontario, Canada L5T 2E4
8	FA95007	13059	#5100-150	Spae Naur, Inc. (416-868-1629) P.O. Box 544 Kitchener, Ontario, Canada N2G 4B1
9	FA00218	13059	A-218-EPDM-E515	Able-O-Rings 5511 Steeles Ave. West - Unit #5 Weston, Ontario, Canada M9L 1S7
10	FA95012	13059	Sq. Key - " x - " x 1" Lg.	Accurate Fasteners, Ltd. 74 Edilcan Dr. Concord, Ontario, Canada L4K 3S5
11	KE50304	13059	KE50304	13059
12	FA95005	13059	FA95005	13059
13	KE50375	13059	KE50375	Exacta Precision Products, Ltd. 3115 Kennedy Rd. (416-291-1942) Scarborough, Ontario, Canada M1S 3B2

REPAIR MANUAL

MODEL KDL-T AND KDP-T CONTROL HOUSING

NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
14	FA19501	13059	Set Screw 3/8-16 x 3/8" Lg.	Accurate Fasteners, Ltd. 74 Edilcan Dr. Concord, Ontario, Canada L4K 3S5
15	KE00508	13059	KE00508	13059
16	KE00164	13059	KE00164	13059
17	KE00151	13059	Rev "F"	A.C.E. Machine Works 40 River Rd. - Units 9 & 10 Concord, Ontario, Canada L4K 2H3
18	FA19186	13059	Set Screw 3/8-16 x " Lg.	Atlas Alloys (416-622-3100) 161 The West Mall Etobicoke, Ontario, Canada M9C 4V8
19	KE50315	13059	Rev "E"	A.C.E. Machine Works 40 River Rd. - Units 9 & 10 Concord, Ontario, Canada L4K 2H3
20	KE50324	13059	KE50324	13059

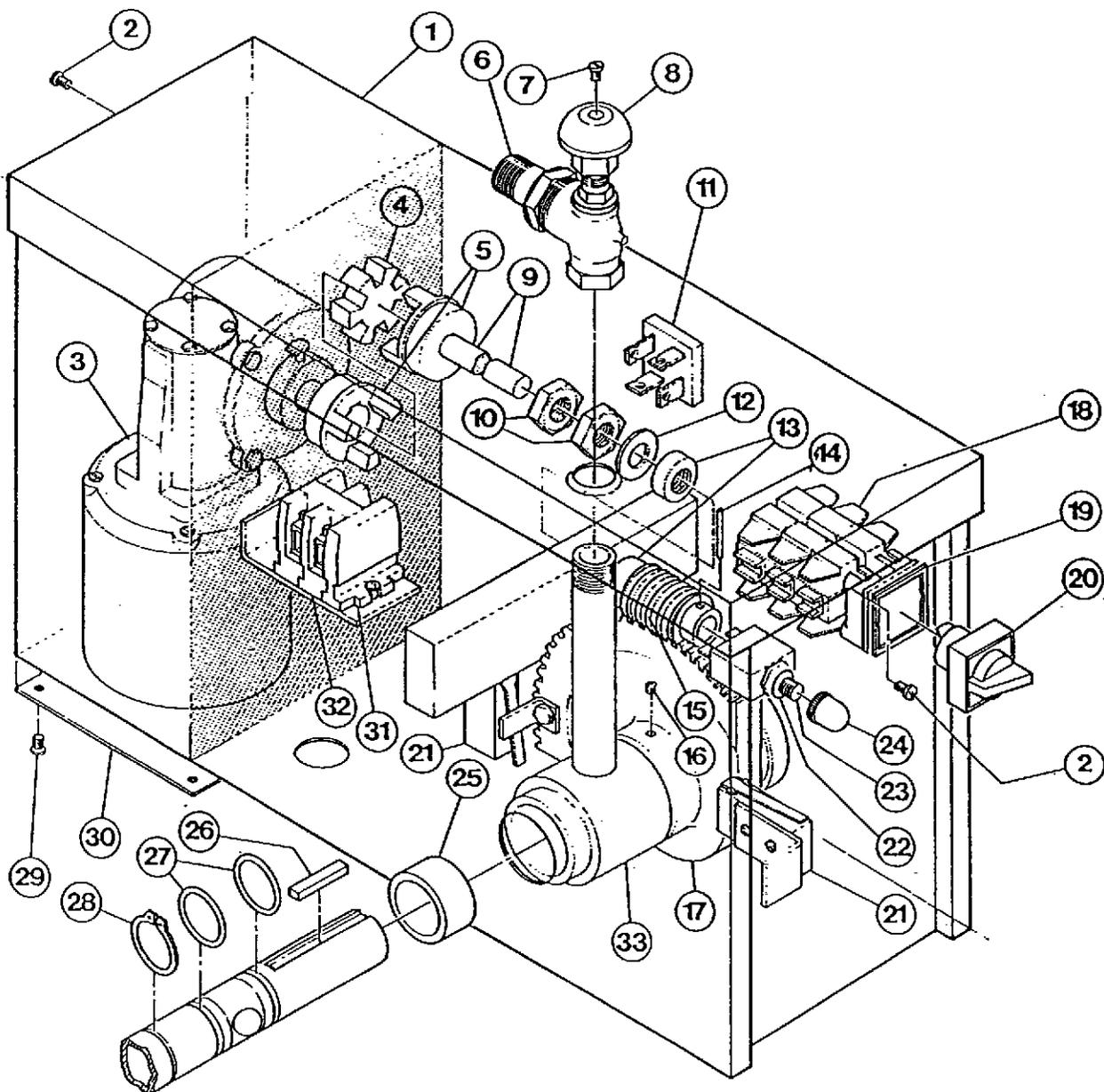
MODEL KDL-T AND KDP-T POWER TILT CONTROL HOUSING*

*Power tilt is standard on the 100 gallon kettle; optional on all other kettles.

Item No.	Part No.	Description	Qty.
1	KE50322	Console Cover	1
2	FA11134	Screw #10-24	2
3	KE50577	Motor	1
4	KE50583	Buna - N - Insert	1
5	KE50582	Coupling	1
6-8	SE00010	3/4" Brass Steam Inlet Valve Assy.	1
6	KE00350	3/4" Brass Steam Inlet Valve (Item No. 7, 8 not incl.)	1
7	FA11501	Valve Knob Screw	1
8	KE50442	Valve Knob	1
9	KE50441	Tilt Shaft	1
10	FA95008	Locknut 3/4 - 16	2
11	KE50581	Bridge Rectifier	1
12	FA30088	Tilt Shaft Washer	1
13	KE50317	Thrust Bearing	2
14	FA95005	Tension Pin	1
15	KE50315	Worm	1
16	FA19186	Worm Gear Allen Screw	1
17	KE00151	Worm Gear	1
18	KE51011	Contact Section	1
19	KE51009	Square Spacer Plate	1
20	KE51010	Square Actuator	1
21	KE51007	Micro Switch	1
22	FA00012	Circuit Breaker "O" Ring	1
23	KE50579	Circuit Breaker	1
24	KE50580	Water Resistant Boot	1
25	KE50304	Trunnion Bearing	1
26	FA95012	Worm Gear Key	1
27	FA00218	Trunnion "O" Ring	2
28	FA95007	Trunnion Retaining Ring	1
29	FA11081	Screw #8-32	4
30	KE51223	Bottom Cover	1
31	SK50054	Terminal Block - End Section	1
32	SK50055	Terminal Block	2
33	KE00164	Steam Inlet Bearing Housing	1

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MODEL KDL-T AND KDP-T POWER TILT CONTROL HOUSING



REPAIR MANUAL

MODEL KDL-T AND KDP-T POWER TILT CONTROL HOUSING

NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
1	KE50322	13059	KE50322	13059
2	FA11134	13059	S/S Mach. Screw 10-24 x 3/8"	Atlas Alloys 161 The West Mall Etobicoke, Ontario, Canada M9C 4V8
3	KE50577	13059	#NSH-34 RH	Leeson Electric, Ltd. (416-625-5440) 1222 Aimco Blvd. Mississauga, Ontario, Canada L4W 1B2
4	KE50583	13059	G100 Buna N Insert	Ontario Belting & Power (416-851-6651) 371 Hanlon Rd. Woodbridge, Ontario, Canada L4L 3T1
5	KE50582	13059	°" Coupling with 5/8" Bore	Ontario Belting & Power 371 Hanlon Rd. Woodbridge, Ontario, Canada L4L 3T1
6-8	SE00010	13059	SE00010	13059
6	KE00350	13059	KE00350	13059
7	FA11501	13059	FA11501	13059
8	KE50442	13059	KE50442	Plastmade Industries, Ltd. 115 Matheson Blvd. East Mississauga, Ontario, Canada L4Z 1X8
9	KE50441	13059	KE50441	Exacta Precision Products, Ltd. 3115 Kennedy Rd. (416-291-1942) Scarborough, Ontario, Canada M1S 3B2
10	FA95008	13059	#HN-66	Spae Naur, Inc. (416-868-1629) P.O. Box 544 Kitchener, Ontario, Canada N2G 4B1
11	KE50581	13059	PB-40	Westburne Electric (416-635-2980) 300 Steeprock Drive Downsview, Ontario, Canada M3J 2W9
12	FA30088	13059	3/4" Bolt with 1" O.D.	Accurate Fasteners, Ltd. 74 Edilcan Drive Concord, Ontario, Canada L4K 3S5

REPAIR MANUAL

MODEL KBL-T AND KDP-T POWER TILT CONTROL HOUSING

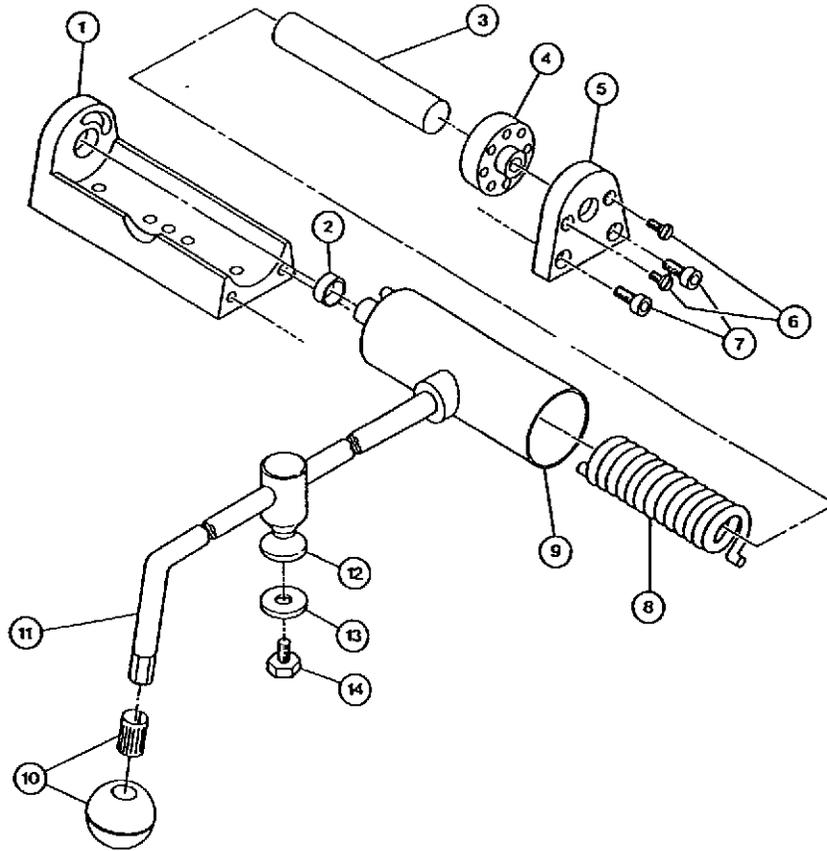
NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
13	KE50317	13059	E5	Canadian Bearings (416-670-6700) 1401 Courtney Park Dr. East Mississauga, Ontario, Canada L5T 2E4
14	FA95005	13059	FA95005	13059
15	KE50315	13059	Rev "E"	A.C.E. Machine Works 40 Rivermede Rd. Concord, Ontario, Canada L4K 2H3
16	FA19186	13059	Set Screw 3/8-16 x °" Lg.	Atlas Alloys (416-622-3100) 161 The West Mall Etobicoke, Ontario, Canada M9C 4V8
17	KE00151	13059	Rev "F"	A.C.E. Machine Works 40 Riverside Rd. Concord, Ontario, Canada L4K 2H3
18	KE51011	13059	01-800-0	Torbram Electric, Ltd. 7270 Torbram Rd. Mississauga, Ontario, Canada L4T 3Y7
19	KE51009	13059	01-815-17	Torbram Electric, Ltd.
20	KE51010	13059	01-814-14	Torbram Electric, Ltd.
21	KE51007	13059	MT-4-RV-A28	Westburne Electric (416-635-2980) 300 Steeprock Ave. Downsview, Ontario, Canada M3J 2W9
22	FA00012	13059	A-012-E50	Able-O-Rings 5511 Steele Ave. West - Unit #5 Weston, Ontario, Canada M9L 1S7
23	KE50579	13059	ETA 45.700P 1 AMP	E.T.A. Circuit Breakers (416-475-5886) 236 Hood Rd. Markham, Ontario, Canada L3R 3K8
24	KE50580	13059	N1-480-08	E.T.A. Circuit Breakers 236 Hood Rd. Markham, Ontario, Canada L3R 3K8
25	KE50304	13059	KE50304	13059

REPAIR MANUAL

MODEL KDL-T AND KDP-T POWER TILT CONTROL HOUSING

NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
26	FA95012	13059	~" x ~" x 1°" Lg.	Accurate Fasteners, Ltd. 74 Edilcan Drive Concord, Ontario, Canada L4K 3S5
27	FA00218	13059	A-218-EPDM-E515	Able-O-Rings 5511 Steeles Ave. West - Unit #5 Weston, Ontario, Canada M9L 1S7
28	FA95007	13059	5100-150	Spare Naur, Inc. (416-868-1629) P.O. Box 544 Kitchener, Ontario, Canada N2G 4B1
29	FA11081	13059	FA11081	13059
30	KE51223	13059	KE51223	13059
31	SK50054	13059	CAT230	Westburne Electric (416-635-2980) 300 Steeprock Dr. Downsview, Ontario, Canada M3J 2W9
32	SK50055	13059	Buchanan 223	Westburne Electric
33	KE00164	13059	KE00164	13059

HINGE ASSEMBLY FOR ALL KETTLES WITH HINGED LIDS



Item No.	Part No.	Description	Qty.
1 - 9	KE00598	Hinge Assembly	1
1	KE50822	Body Spring Assist Hinge	1
2	KE50824	Hinge Bearing	1
3	KE50823	Pin (Hinge)	1
4	KE50820	Insert Brass Adjust	1
5	KE50819	End Piece	1
6	FA11507	Screws Adjust	2
7	FA11284	Bolts End Block	2
8	KE50122	Spring (40 gal. and under)	1
	KE50121	Spring (60 gal. and over)	1
9	KE50821	Cylinder	1
10	KE50151	Knob Ball Type	1
11		Cover Handle (Specify Model)	1
12	KE00095	Lid Holder	1
13	FA30500	Washer Lid Holder	1
14	FA11223	Bolt Lid Holder	1

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REPAIR MANUAL

HINGE ASSEMBLY FOR ALL KETTLES WITH HINGED LIDS

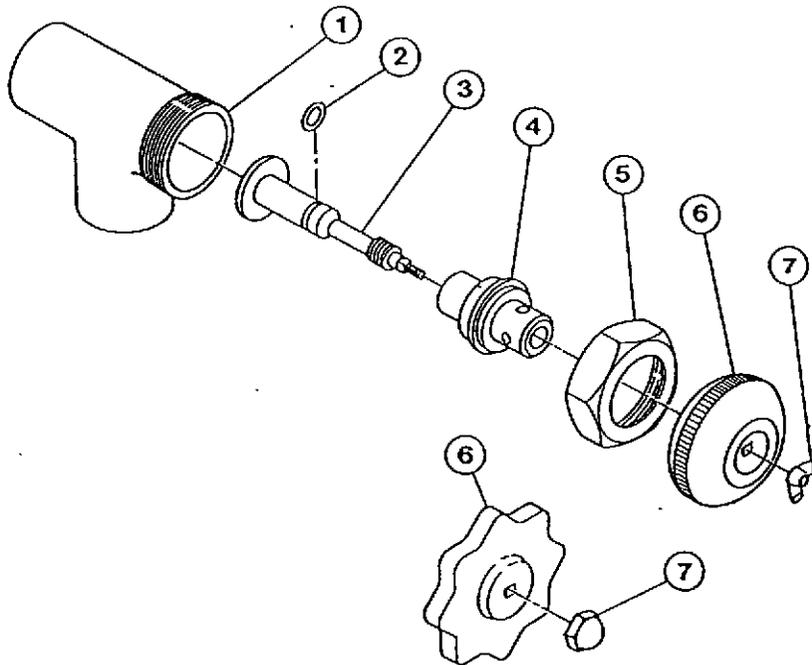
NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
1-9	KE00598	13059	KE00598	13059
1	KE50822	13059	Hinge Body Casting	Design Precision Castings 75 Eastern Ave. Brampton, Ontario, Canada L6W 1X9
2	KE50824	13059	Hinge Bearing	Canadian Bearings (416-670-6700) 1401 Courtney Park Dr. East Mississauga, Ontario, Canada L5T 2E4
3	KE50823	13059	KE50823	13059
4	KE50820	13059	Hinge Insert	Bowin Screw Products Co. (416-741-7672) 141 Milvan Dr. Weston, Ontario, Canada M9L 1Z8
5	KE50819	13059	Hinge End Piece	Design Precision Castings 75 Eastern Ave. Brampton, Ontario, Canada L6W 1X9
6	FA11507	13059	Screw 10-24 x 3/4" Lg.	Direct Fasteners, Ltd. 6813 Steeles Ave. West Rexdale, Ontario, Canada M9V 4R9
7	FA11284	13059	Socket Screw " - 20 x °"	Accurate Fasteners, Ltd. 74 Edilcan Drive Concord, Ontario, Canada L4K 3S5
8	KE50122	13059	Spring Wire Dia. .162	Bohne Spring Industries, Ltd. 60 Coronet Rd. (416-231-9000) Etobicoke, Ontario, Canada M8Z 2M1
	KE50121	13059	Spring Wire Dia. .187	
9	KE50821	13059	Hinge Cycle Casting	Designed Precision Castings 75 Eastern Ave. Brampton, Ontario, Canada L6W 1X9
10	KE50151	13059	KBB-150	Nortel Mfg., Ltd. (416-438-3325) 2000 Ellesmere Rd. - Bldg. #9 Scarborough, Ontario, Canada N1H 2W4
11	Cover Handle	13059	Cover Handle	13059
12	KE00095	13059	KE00095	13059

REPAIR MANUAL

HINGE ASSEMBLY FOR ALL KETTLES WITH HINGED LIDS

NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
13	FA30500	13059	FA30500	Spae Naur, Inc. (416-868-1629) P.O. Box 544 Kitchener, Ontario, Canada N2G 4B1
14	FA11223	13059	FA11223	13059

KETTLE DRAW-OFF VALVE



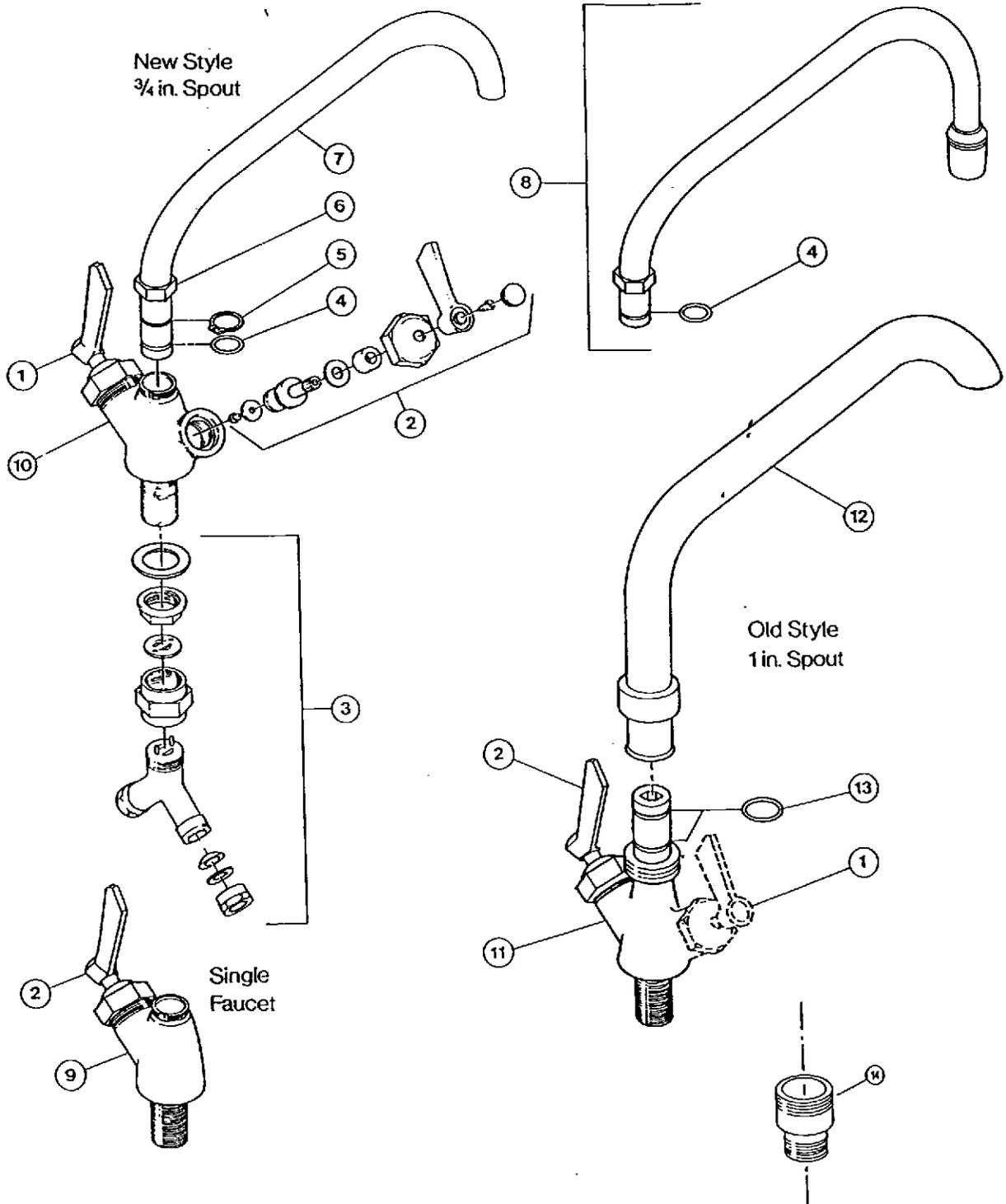
Item No.	Part No.	Description	Qty.
1-7	KE50219	1½" Draw-off Valve Assy.	1
	KE50972	2" Draw-off Valve Assy.	1
	KE50973	3" Draw-off Valve Assy.	1
1	SE50005	Body (1½")	1
	SE50006	Body (2")	1
	SE50007	Body (3")	1
2	FA00111	"O" Ring (1½", 2")	1
	FA00210	"O" Ring (3")	1
3	SE50008	Stem (1½")	1
	SE50009	Stem (2")	1
	SE50010	Stem (3")	1
4	SE50011	Bonnet (1½")	1
	SE50012	Bonnet (2")	1
	SE50013	Bonnet (3")	1
5	SE50014	Hex Nut (1½")	1
	SE50015	Hex Nut (2")	1
	SE50016	Hex Nut (3")	1
6	SE50017	Knob (1½", 2")	1
	SE50018	Knob (3")	1
7	SE50019	Wing Nut (1½", 2")	1
	SE50063	Hex Nut (3")	1

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REPAIR MANUAL
KETTLE DRAW-OFF VALVE

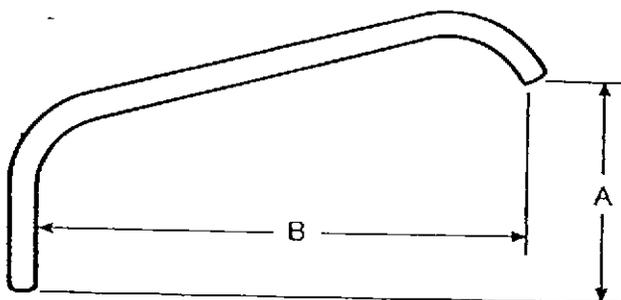
NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
1-7	KE50219 KE50972 KE50973	13059 13059 13059	KE50219 KE50972 KE50973	13059 13059 13059
1	SE50005 SE50006 SE50007	13059 13059 13059	#D0-150 #D0-200 #D0-300	Waukesha Specialty Co. (414-724-3600) P.O. Box 160 Darien, WI 53114
2	FA00111 FA00210	13059 13059	A-111-E50 A-210-E50	Able-O-Rings 5511 Steeles Ave. West - Unit #5 Weston, Ontario, Canada M9L 1S7
3	SE50008 SE50009 SE50010	13059 13059 13059	DO-150 Bare Stem DO-200 Bare Stem DO-300 Bare Stem	Waukesha Specialty Co. (414-724-3600) P.O. Box 160 Darien, WI 53114
4	SE50011 SE50012 SE50013	13059 13059 13059	Bonnet - 1" Bonnet - 2" Bonnet - 3"	Waukesha Specialty Co. P.O. Box 160 Darien, WI 53114
5	SE50014 SE50015 SE50016	13059 13059 13059	Hex Nut - 1" Hex Nut - 2" Hex Nut - 3"	Waukesha Specialty Co. P.O. Box 160 Darien, WI 53114
6	SE50017 SE50018	13059 13059	Knob Handle 1" and 2" Knob Handle 3"	Waukesha Specialty Co. P.O. Box 160 Darien, WI 53114
7	SE50019 SE50063	13059 13059	Wing Nut 1" and 2" Hex Nut - 3"	Waukesha Specialty Co. P.O. Box 160 Darien, WI 53114

KETTLE AND SKILLET FAUCET



KETTLE AND SKILLET FAUCET

Item No.	Part No.	Description	Qty.
1	SE50020	Hot Water Stem Assy.	1
2	SE50021	Cold Water Stem Assy.	1
3	SE50022	Yoke Connection Kit	1
4	FA00016	"O" Ring	1
5	FA95022	Retaining Ring	1
6	SE50064	Spout Nut	1
7	see chart	¾" spout (please see ¾" spout chart below)	1
8	N/A	¾" spout with Aerator (please order Item No. 4,5,6,7)	1
9	KE51401	Single Pantry Control Valve (incl. Item No. 2)	1
10	KE51403	Double Pantry Control Valve (incl. Item No. 1,2,3)	1
11	N/A	Old Style Single Pantry Control Valve (please order Item No. 4,5,6,7,9)	1
	N/A	Old Style Double Pantry Control Valve (please order Item No. 4,5,6,7,10)	1
12	N/A	1" Spout (please order Item No. 4,5,6,7,14)	1
13	FA00115	"O" Ring	2
14	SE50061	Adapter (to adapt new style spout to old style control valve)	1



A	B	Part No.
4"	8"	KE50833
10"	9"	KE50832
6"	22"	KE50831
12½"	14"	KE50830
10¾"	14"	KE50829
5"	14"	KE50828
24"	9"	KE50827
20"	9"	KE50826
12½"	9"	KE50825

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REPAIR MANUAL

KETTLE AND SKILLET FAUCET

NO.	OEM PART NO.	FSCM	TRUE VENDOR PART NO.	FSCM OR NAME & ADDRESS OF TRUE VENDOR
1	SE50020	13059	2000-0005	Fisher Mfg. Co. 5332 Santa Fe Ave. Vernon, CA 90058
2	SE50021	13059	2000-0004	Fisher Mfg. Co. 5332 Santa Fe Ave. Vernon, CA 90058
3	SE50022	13059	2100-0000	Fisher Mfg. Co. 5332 Santa Fe Ave. Vernon, CA 90058
4	FA00016	13059	A-016-EPDM-515	Able-O-Rings 5511 Steeles Ave. West - Unit #5 Weston, Ontario, Canada M9L 1S7
5	FA95022	13059	Retaining Ring	Accurate Fasteners, Ltd. 74 Edilcan Dr. Concord, Ontario, Canada
6	SE50064	13059	SE50064	13059
7	KE50833	13059	KE50833	13059
	KE50832	13059	KE50832	13059
	KE50831	13059	KE50831	13059
	KE50830	13059	KE50830	13059
	KE50829	13059	KE50829	13059
	KE50828	13059	KE50828	13059
	KE50827	13059	KE50827	13059
	KE50826	13059	KE50826	13059
	KE50825	13059	KE50825	13059
9	KE51401	13059	Single Pantry Control Valve	Fisher Mfg. Co. 5332 Santa Fe Ave. Vernon, CA 90058
10	KE51403	13059	Double Pantry Control Valve	Fisher Mfg. Co. 5332 Santa Fe Ave. Vernon, CA 90058
13	FA00115	13059	A-115-EPDM-E50	Able-O-Rings 5511 Steeles Ave. West - Unit #5 Weston, Ontario, Canada M9L 1S7
14	SE50061	13059	SE50061	13059

FLOOR MODEL DIRECT STEAM KETTLE SERVICING GUIDE

This section contains information intended for use by Authorized Service Personnel.

A/ PROBLEM: Kettle heats too slowly or does not come to a boil.

Probable Cause

1. Inadequate Steam Flow

Steam Flow Rating of Cleveland Steam Generators

Electric KW Input		
18 KW	60	1.7
24 KW	70	2.0
27 KW	90	2.6
36 KW	120	3.5
48 KW	150	4.3

Remedy

Check for correct steam using the chart below. If the kettle is connected to a steamer and powered by a generator the units should be operated sequentially (kettle boiling first, then start steamer).

Steam Flow Rate Requirements for Cleveland Kettles; lbs. per hour with 10-15 psig steam at the kettle

Capacity Gallon/Litre	Fast Cooking	Medium Speed Cooking	Stock Kettle
5/ 17	11	9	6
10/ 42	22	18	11
25/ 95	55	44	28
40/151	88	70	44
60/227	132	105	66

The use of higher steam pressures (20-50 psig) will reduce heat up time 5 to 20%

2. Steam trap not operating properly

The trap should open periodically to dump condensate then close. If it does not open or close it should be cleaned or replaced.

3. Food batches are not always the same

When checking make certain that the original state (ie. fresh or frozen) and quantity of the food product is the same

B/ PROBLEM: The trunnion housing leaks steam.

Probable Cause

1. Trunnion "O" rings are worn

Remedy

Replace "O" rings.

C/ PROBLEM: Steam trap makes a "banging" noise when steam is applied to a cold kettle.

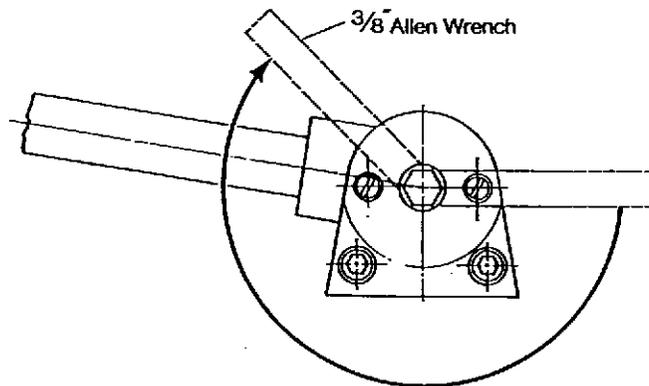
Probable Cause

1. Kettle condensate has not been drained

Remedy

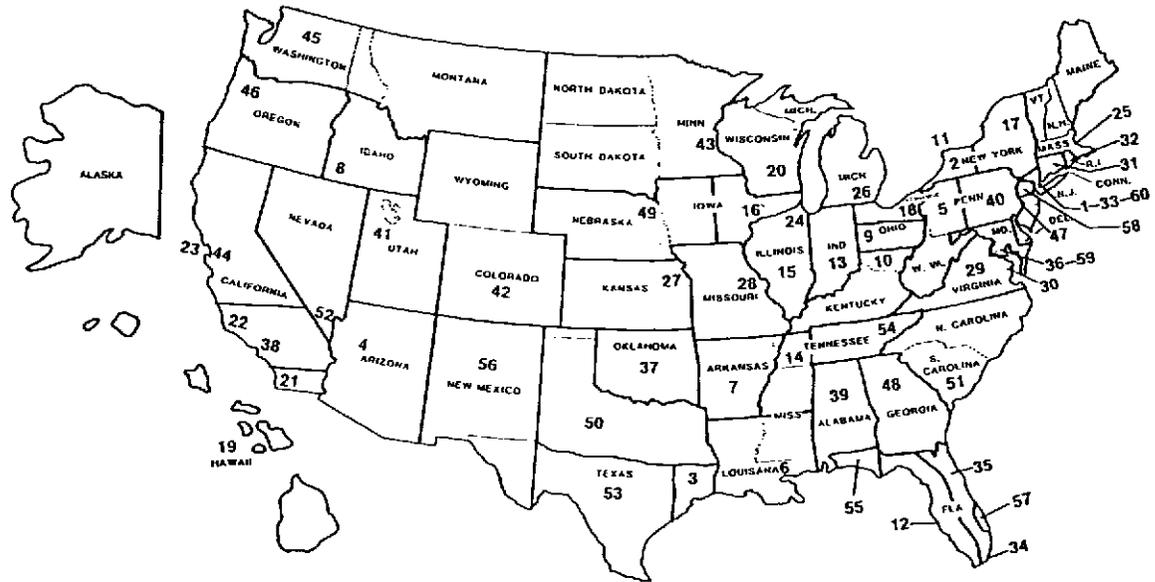
On all tilting trileg and pedestal kettles the condensate should be drained from the cold kettle. This is done before the steam is applied using the drain petcock valve on the

HINGE ADJUSTMENT INSTRUCTIONS



1. Insert $\frac{3}{8}$ " Allen wrench.
2. Turn clockwise to relieve tension on spring.
3. While tension is released remove one of the two slotted screws.
4. To prevent Allen wrench from springing back abruptly while the second slotted screw is removed, insert a pin (approximately $\frac{1}{8}$ ") in the hole where the first slotted screw was removed from.
5. Remove second slotted screw.
6. While holding Allen wrench remove pin.
7. Turn Allen wrench clockwise to tighten or counter-clockwise to loosen tension to produce desired effect.
8. Re-insert pin in one of the two holes.
9. Tighten one slotted screw in the other hole (it may be necessary to turn Allen wrench slightly to align holes.)
10. Remove pin and repeat step number 9 for other slotted screw.

MAINTENANCE AND REPAIR CENTERS



0990

The following is an alphabetical listing of regional distributors of parts and service throughout the United States. Contact your nearest distributor for the name of an Authorized Service Agency in your area.

1 Acme American Repairs
99 Scot Ave
Brooklyn, NY 11237
(718) 456-6544
1-800-221-3026 (NY)

2 Appliance Installation & Service
2464 Main Street
Buffalo, NY 14214
(716) 836-8606
1-800-252-2535 (NY)

3 Armstrong Repair Center
5750-A Royallon
Houston, TX 77081
(713) 666-7100
1-800-392-5325 (TX)
1-800-231-0822
(AR, KS, LA, MS, MO, OK)

4 Authorized Commercial Service, Inc.
1938 East Osborn Road
Phoenix, AZ 85016
(602) 234-2443
1-800-824-8875 (AZ)

5 Authorized Factory Service
1010 First Avenue
Coraopolis, PA 15108
(412) 262-2330
1-800-222-8767 (PA)
1-800-223-2862 (National)

6 Bana Part, Inc.
1501 Kuebel Street
Harahan, LA 70123
(504) 734-0076
1-800-325-7543 (LA)
1-800-423-5022 (MS)

7 Bromley Parts & Service
806 IZard Street
Little Rock, AR 72201
(501) 374-0281
1-800-482-9269 (AR)

8 Bressie Electric Company
7413 Mossy Cup Street
Boise, ID 83709
(208) 362-2333
1-800-562-0470 (ID)

9 Commercial Parts & Service
1150 West Mound Street
Columbus, OH 43223-2295
(614) 221-0057

10 Certified Service Center
4946 50 Paddock Road
Cincinnati, OH 45237
1-800-543 2060 (National)
1-800 583 0799 (OH)

11 Cleveland Range, Ltd.
8251 Keele Street
Concord, Ontario,
Canada L4K 1Z1
(416) 660-4747
1-800-387-3562 (Canada only)

12 Commercial Appliance Service
2101 W Hillsborough Ave.
Tampa, FL 33603
(813) 879-2461
1-800-282-4718 (FL)

13 Commercial Parts & Service
5310 East 25th St P O Box 18688
Indianapolis, IN 46218
(317) 545-9655
1-800-727-8710

14 Commercial Parts & Service
3716 Burdon Cove, Suite 4
Memphis, TN 38118
(901) 366-4587
1 800-445-6101 (TN)

15 Eichenauer Services
130 S Oakland St
Decatur, IL 62522
(217) 429-4229
1-800-252-5892 (IL)
1-800-342-0240 (National)

16 Cones Repair Service, Inc.
2408 40th Avenue
Moline, IL 61265
(309) 797-5323
1-800-447-6761 (National)

17 Duffy's Equipment Service
3138 Oneida Street
Saugquoit, NY 13456
(315) 737-9401
1-800-443-8339 (NY)

18 Electrical Appliance Repair
2021 East 32nd Street
Cleveland, OH 44115
(216) 431-2222
1-800-621-8259 (OH)

19 Food Equipment Parts & Service
300 Puuhale Road
Honolulu, HI 96819
(808) 847-4871

20 General Parts of WI
6633 West National Avenue
Milwaukee, WI 53214
(414) 257-4008
1-800-242-4046 (WI)

21 GCS Service, Inc.
9030 Kenamor Drive
San Diego, CA 92126
(619) 565-6672
1-800-422-7278 (CA)

MAINTENANCE AND REPAIR CENTERS

- 22 **GCS Service, Inc.**
946 E 12th Street
Los Angeles, CA 90021
(213) 749-7785
1-800-327-1433 (CA)
1-800-431-3530 (National)
- 23 **GCS Service, Inc.**
150 Associated Road
So San Francisco, CA 94080
(415) 871-6693
1-800-431-0889 (CA)
1-800-255-6307 (NV)
- 24 **GCS Service, Inc.**
1455 S Michigan Avenue
Chicago, IL 60605
(312) 427-6900
1-800-323-5934 (IL)
- 25 **GCS Service, Inc.**
815 Cambridge Street
Cambridge, MA 02141
(617) 426-8962
1-800-225-1155 (National)
- 26 **GCS Service, Inc.**
27507 Schoolcraft Road
Livonia, MI 48150
(313) 261-2255
1-800-772-2930 (MI)
- 27 **GCS Service, Inc.**
2213 Riverfront Rd
Kansas City, MO 64120
(816) 472-6477
1-800-821-7680 (KS)
- 28 **GCS Service, Inc.**
9722 Reavis Park Dr
St Louis, MO 63123
(314) 638-7444
1-800-392-3505 (MO)
- 29 **Electric Motor Repair**
700 East 25th Street
Baltimore, MD 21218
(301) 467-8080
- 30 **GCS Service Inc.**
5325 Cleveland Street, Suite 111
Virginia Beach, VA
(804) 473-3413
1-800-621-0232 (VA)
- 31 **GCS Service, Inc.**
292 Murphy Road
Hartford, CT 06114
(203) 549-5575
1-800-523-7901 (CT)
- 32 **GCS Service, Inc.**
1002 Waterman Avenue
East Providence, RI 06144
(401) 434-6803
1-800-462-6241 (RI)
- 33 **GCS Service, Inc.**
932 Grand Street
Brooklyn, NY 11211
(718) 486-5220
1-800-255-2512 (CT,NJ)
1-800-522-5545 (NY)
- 34 **GCS Service, Inc.**
1018 North Miami
Miami, FL 33136
(305) 371-0382 (Dade County)
1-800-321-9866 (FL)
- 35 **GCS Service, Inc.**
4303 Vineland Road, Suite 5
Orlando, FL 32811
(407) 841-2551
1-800-338-7322 (FL)
- 36 **GCS Service, Inc.**
5001 College Avenue
College Park, MD 20740
(301) 792-0388 (Baltimore)
(301) 927-7330 (D C)
1-800-638-7278 (National)
- 37 **Hagar Restaurant Equip. Service**
1229 West Main
Oklahoma City, OK 73106
(405) 235-2184
1-800-522-3706 (OK)
1-800-445-1791 (National)
- 38 **Industrial Electric**
4623 Ardine
Cudahy, CA 90201
(213) 771-7100
1-800-621-0849 X337 (Nat'l)
- 39 **Jones-McLeod Appliance Service**
1616 Seventh Ave., North
Birmingham, AL 35203
(205) 251-0159
1-800-821-1150 (AL)
1-800-231-5832 (GA,FL,MS,TN)
- 40 **K & D Service**
1833-41 N Cameron St
Harrisburg, PA 17103
(717) 236-9039
1-800-932-0503 (PA)
- 41 **La Monica Restaurant Equipment Service**
2759 S 300 West, Suite E
Salt Lake City, UT 84115
(801) 466-2681
1-800-527-2561 (UT)
- 42 **Metro Appliance Service**
1640 S Broadway,
Denver, CO 80210
(303) 778-1126
1-800-525-3532 (CO)
- 43 **Metro Appliance Service, Inc.**
10911 West Hwy. 55
Minneapolis, MN 55441
(612) 546-4221
1-800-328-4815 (National)
1-800-345-3508 (MN)
- 44 **P & D Appliance Service Center, Inc.**
333 Seventh Street
San Francisco, CA 94103
(415) 861-1414
1-800-424-1414 (CA)
- 45 **Restaurant Appliance Service**
7219 Roosevelt NE
Seattle, WA 98115
(206) 524-8200
1-800-433-9390 (WA)
- 46 **Ron's Service**
16364 S W 72nd Ave
Portland, OR 97224
(503) 624-0890
- 47 **Elmer Schultz Services**
540 North Third Street
Philadelphia, PA 19123
(215) 627-5400
- 48 **Southeastern Restaurant Services Inc.**
2200 Norcross Parkway, Suite 210
Atlanta, GA 30071
(404) 446-6177
1-800-235-6516 (National)
- 49 **J.L. Tucker**
815 N. 19th Street
Omaha, NE 68102
(402) 345-7400
1-800-228-0342 (IA)
1-800-248-4429 (NE)
- 50 **Stove Parts Supply Co.**
2120 Solana
Ft Worth, TX 76117
(817) 831-0381
1-800-433-1804 (National)
1-800-772-7420 (TX)
- 51 **Whaley Electric Service**
1-26 at US 1
W Columbia, SC 29169
(803) 791-4420
1-800-845-9382 (NC)
- 52 **Burney's Commercial Service**
4480 Aldebaran Avenue
Las Vegas, NV 89103
(702) 736-0006
1-800-634-7600 (NV)
- 53 **Commercial Kitchen Repair Co.**
1377 N Brazos
San Antonio, TX 78207
(512) 735-2811
(512) 735-5249
1-800-292-2120 (TX)
- 54 **Commercial Parts & Service**
470 Woodycrest Avenue
Nashville, TN 37210
(615) 244-8050
1-800-831-7174
- 55 **Southern Supply & Service**
1010 N Hwy 77
Chipley, FL 32428
(904) 638-7216
1-800-344-5512
- 56 **Thermal Control**
2317 Edith N W
Albuquerque, NM 87102
(505) 242-4200
El Paso, TX (915) 544-6634
- 57 **Broward Gas**
3121 N W 16th Terrace
Pompano Beach, FL 33064
(305) 971-0456
- 58 **Jackson Faspray Service**
155 Sargeant Avenue
Clifton, NJ 07013
(201) 471-8000
1-800-356-6740 (NJ)
- 59 **Daubus Commercial Cooling Service**
7645 Dynatech Court
Springfield, VA 22153
(703) 866-3600
- 60 **Summit Restaurant Representatives**
587 W Merrick Road
Valley Stream, NY 11580
(212) 517-8323
(516) 568-1700

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