

Statement of Responsibilities

This document is for use by experienced and trained Qualified Cleveland Range, LLC Authorized Service Representatives who are familiar with both the safety procedures, and equipment they service.

Cleveland Range, LLC assumes no liability for any death, injury, equipment damage, or property damage resulting from use of, improper use of, or failure to use the information contained in this document.

Cleveland Range, LLC has made every effort to provide accurate information in this document, but cannot guarantee that this document does not contain unintentional errors and omissions.

The information in this document may be subject to technical and technological changes, revisions, or updates.

Cleveland Range, LLC assumes no liability or responsibility regarding errata, changes, revisions, or updates.

Qualified Cleveland Range, LLC Authorized Service Representatives are obligated to follow industry standard safety procedures, including, but not limited to, OSHA regulations, and disconnect / lock out / tag out procedures for all utilities including steam, and disconnect / lock out / tag out procedures for gas, electric, and steam powered equipment and / or appliances

All utilities (gas, electric, water and steam) should be turned OFF to the equipment and locked out of operation according to OSHA approved practices during any servicing of Cleveland Range equipment

Qualified Cleveland Range, LLC Authorized Service Representatives are obligated to maintain up-to-date knowledge, skills, materials and equipment.

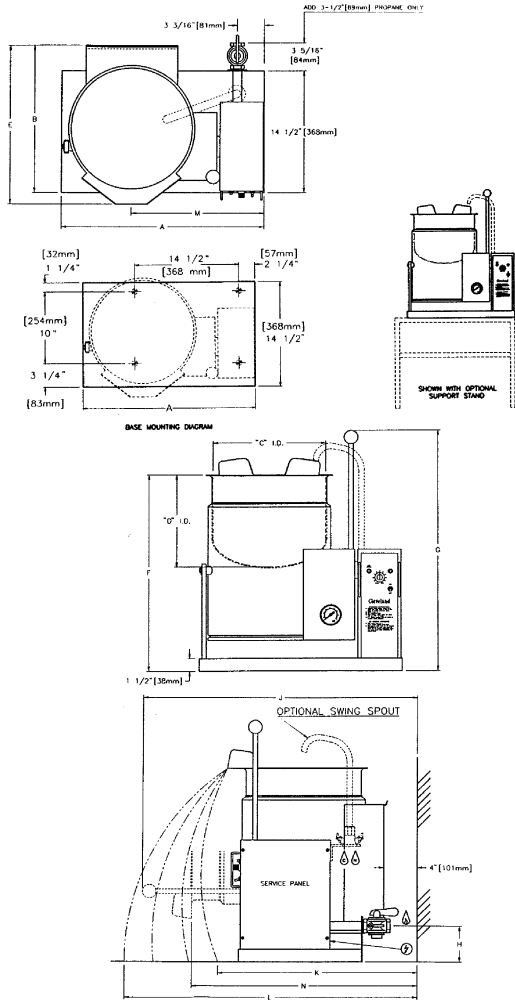
TABLE TOP, GAS

6 OR 12 GALLONS (23 OR 45 LITERS)
 2/3 STEAM JACKETED, TILTING
 "SPASH PROOF SERIES"

MODELS: KGT- 6-T
 KGT-12-T

ITEM NUMBER _____

JOB NAME / NUMBER _____



SHORT FORM SPECIFICATION

Shall be CLEVELAND, gas kettle, Table Type, self-contained, tilting, Model KGT- ____-T; ____ gallons, natural or LP gas, 2/3 steam jacketed, type 304 Stainless Steel and supports. Jacket rated at 50 psi with Safety Valve. Complete with solid state water level, temperature, and safety low water power cut off, including LED indicators. Option lift off cover.

KETTLE SIZE		A	B	C	D	E	F	G	H	J	K	L	M	N															
GALS.	LITERS	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES															
6	23	24	610	19 1/4	490	13	340	11	279	18 3/8	476	23	594	28 3/8	730	4	108	32 1/2	826	24	610	37	940	15 3/8	400	27 1/4	692		
12	46	27	686	20 3/8	518	16 1/8	425	14 1/8	357	23	584	27	686	39	991	5	149	5	149	43	1092	30	762	43	1092	16 1/8	419	31	787

GAS				ELECTRIC		WATER		CLEARANCE			
NATURAL		PROPANE		B.T.U. RATING		120V 1 ph		1/2" O.D. Copper Tube		RIGHT = 0"	
piping: 3/4" NPT.		piping: 3/4" NPT.		6 gal. 34,000		60 hz				LEFT = 0"	
Supply pressure: 4.5" W.C. minimum		Supply pressure: 11.00" W.C. minimum		12 gal. 53,000		6 ft. [1.8m] cord c/w u-ground plug supplied.				REAR = 4" [102cm]	
14.00" W.C. maximum		14.00" W.C. maximum									

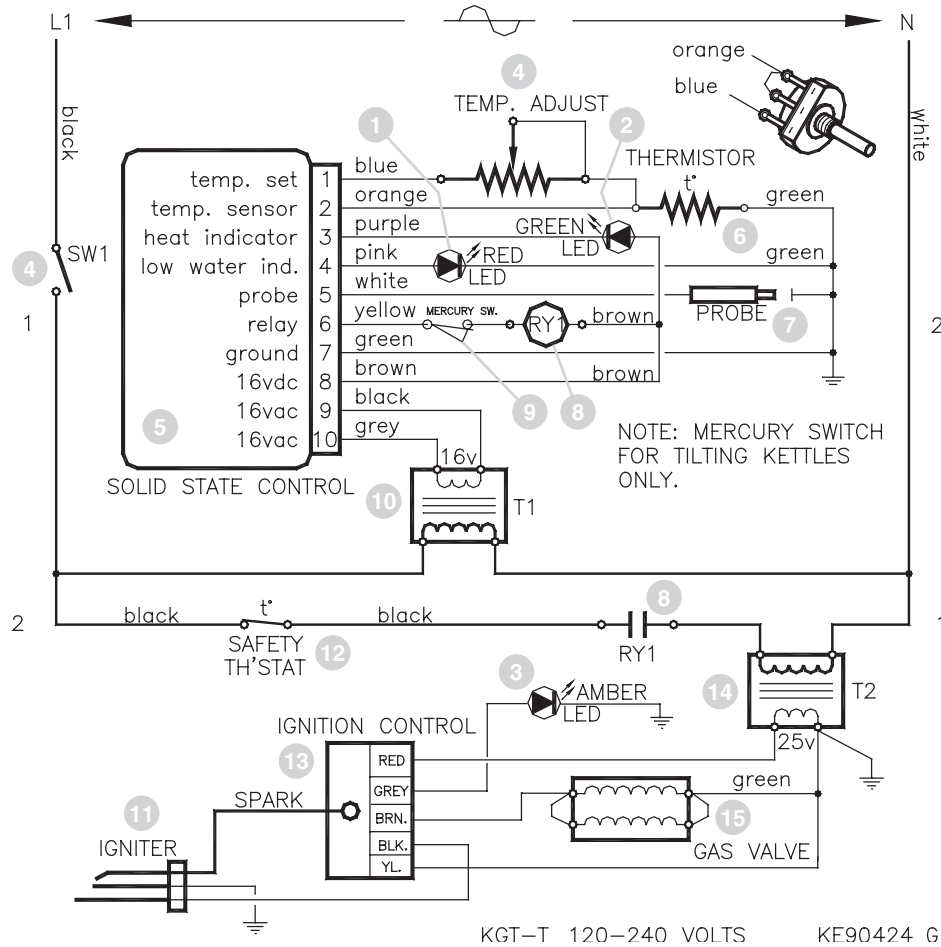
Manufacturer must be notified if unit will be operated above 2,000 ft. [610m] altitude.

Cleveland Range reserves right of design improvement or modification, as warranted.

CLEVELAND RANGE KGT-T SEQUENCE OF OPERATIONS

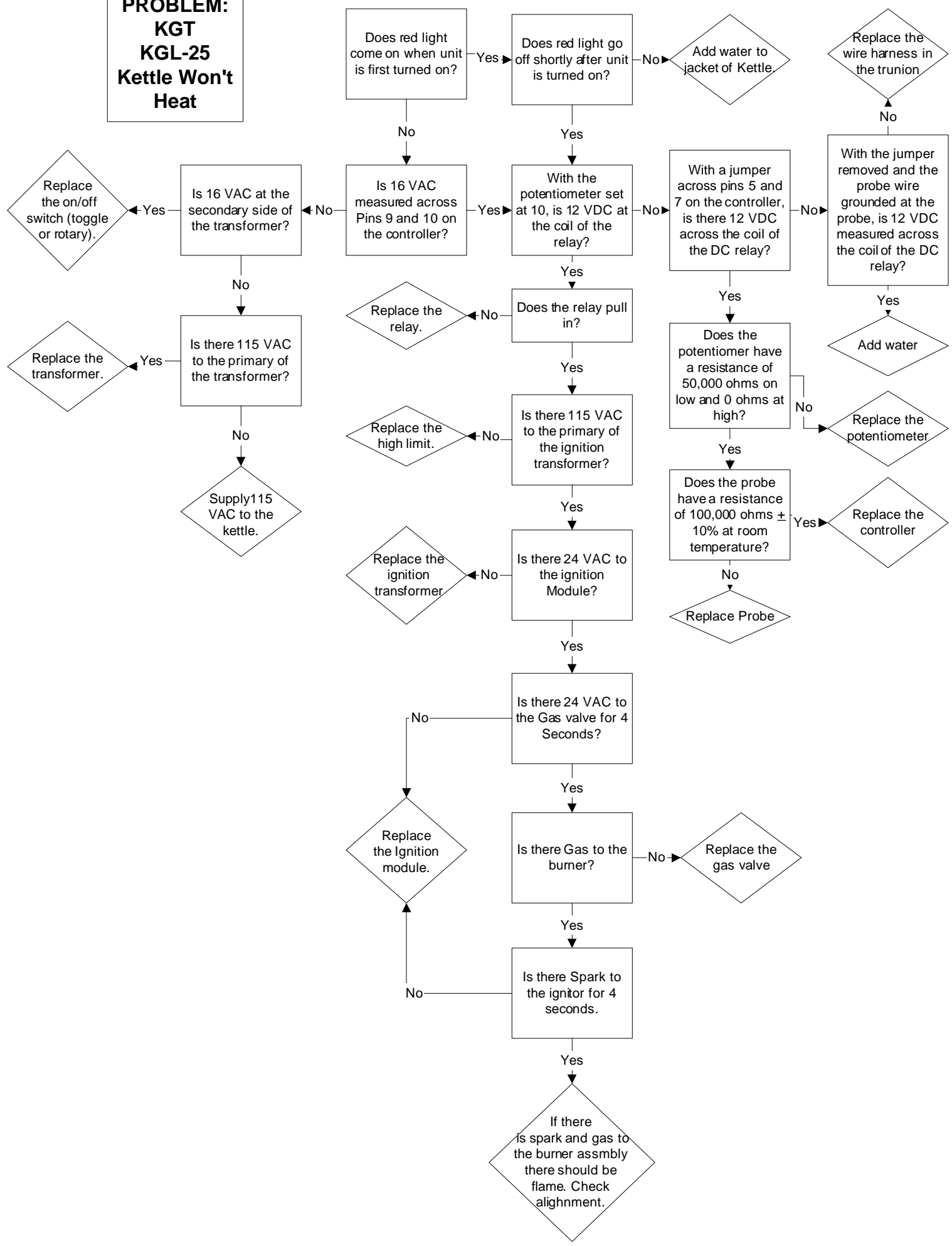
1. To turn the unit on, turn the switch to the on position.
 - Power is sent to primary side of the 120vac/16vac transformer.
 - Power is sent to the normally closed high limit.
 - From the high limit power is sent to the normally open contacts of the 12VDC relay.
2. From the secondary of the transformer 16VAC is sent to the controller.
 - Power is sent to the red LED (low water indicator light) from terminal 4 of the controller.
 - If the water probe is grounded through water the LED will go off.
 - If the water probe is not grounded the LED will remain on and the unit will not heat.
 - If the resistance of the thermistor is higher than the setting of the potentiometer(the unit is calling for heat) then 16VDC is sent to the coil of the relay and the green LED (heat indicator light)
 - The 12VDC relay will close until the unit reaches temperature
3. With the contacts of the relay closed, power is sent to the 24 VAC transformer.
 - The transformer sends 24 VAC to the ignition module.
 - The ignition module will send spark to the igniter and 24 VAC to the gas valve.
 - With 24VAC to the gas valve the valve opens and gas is sent to the burner.
 - Spark and gas together cause ignition.
 - When this happens and the module reads at least 0.7 micro amps DC within 4 seconds, the unit will heat causing the water to boil and steam to be generated.
 - If the module does not see the 0.7 micro-amps in 4 seconds, the module will try again in 15 seconds. It will try 3 times then lock out.
4. The kettle will heat (build pressure) until the controller is satisfied by the thermistor at the setting of the potentiometer.
 - The controller will then turn off the heat circuit until the temperature of the kettle is below the setting.
 - When the temperature drops below the setting the controller will send 12 VDC to the relay and the heat circuit will be energized again.
5. To turn the unit off, place the switch in the off position.
 - Power will be removed from the controller and the heat circuit will de-energize.

WIRING DIAGRAM

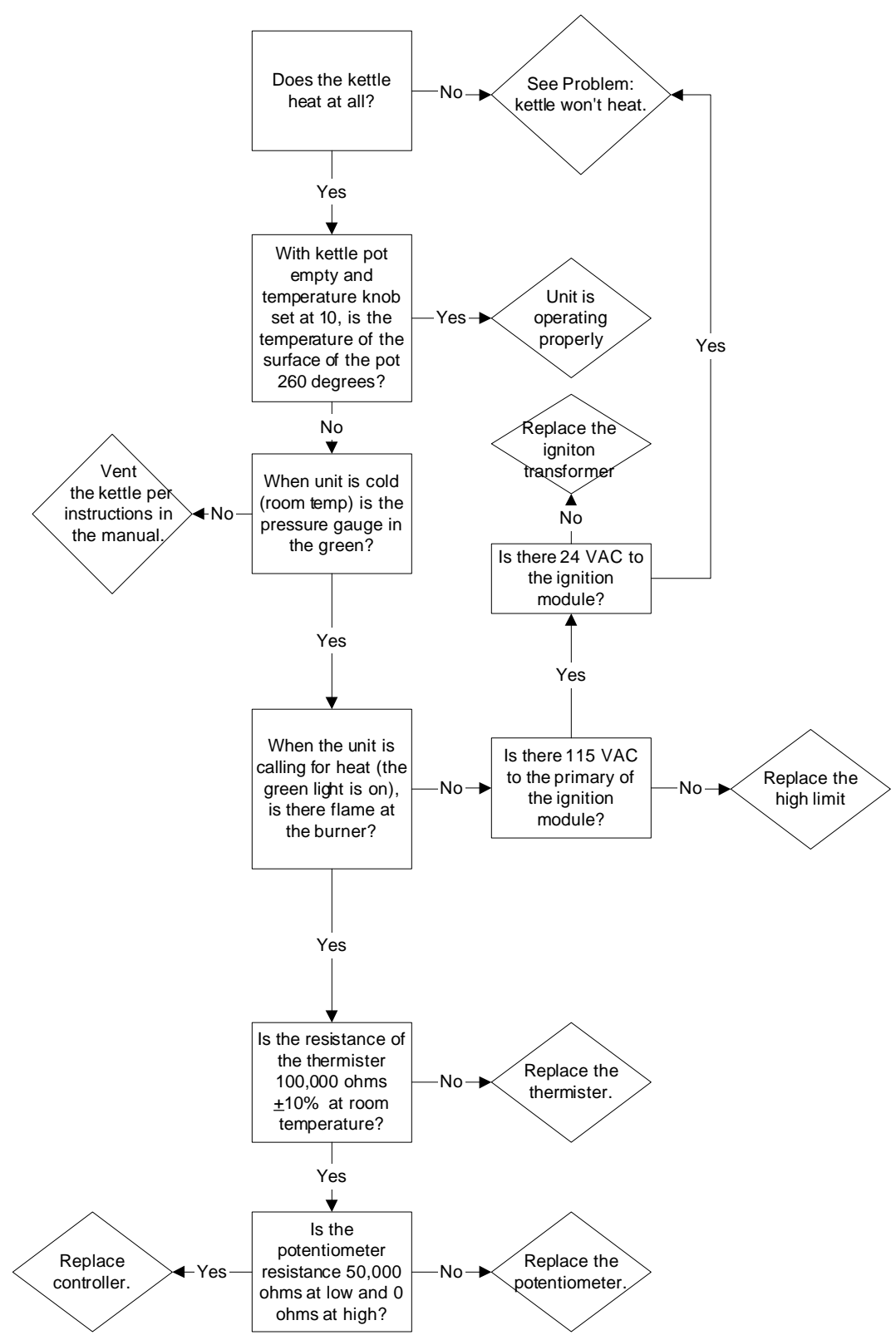


ITEM NO.	PART NO.	DESCRIPTION	SEE PAGE
1.	KE50567-1	L.E.D., RED	7
2.	KE50567-3	L.E.D., GREEN	7
3.	KE50567-2	L.E.D., AMBER	7
4.	SE00114	POTENTIOMETER WITH ON/OFF SWITCH, C/W RUBBER BOOT	7
5.	KE00458	SOLID STATE CONTROL BOX	9
6.	KE00515	THERMISTOR ASSEMBLY	8
7.	KE50556-1	WATER LEVEL PROBE	8
8.	KE50753-7	RELAY	9
9.	KE50294-1	MERCURY SWITCH	8
10.	KE53838-27	TRANSFORMER, 120/14V	9
	KE53838-21	TRANSFORMER, 240/16V	9
11.	KE53437-1	IGNITOR	10
12.	KE55069-6	SAFETY THERMOSTAT	8
13.	KE53469-2	IGNITION CONTROL #05-296466-151	9
14.	KE53838-20	TRANSFORMER, 120/24V	9
	KE53838-18	TRANSFORMER, 240/24V	9
15.	KE55240-7	GAS VALVE KIT (INCLUDES L.P. CONVERSION KIT)	10

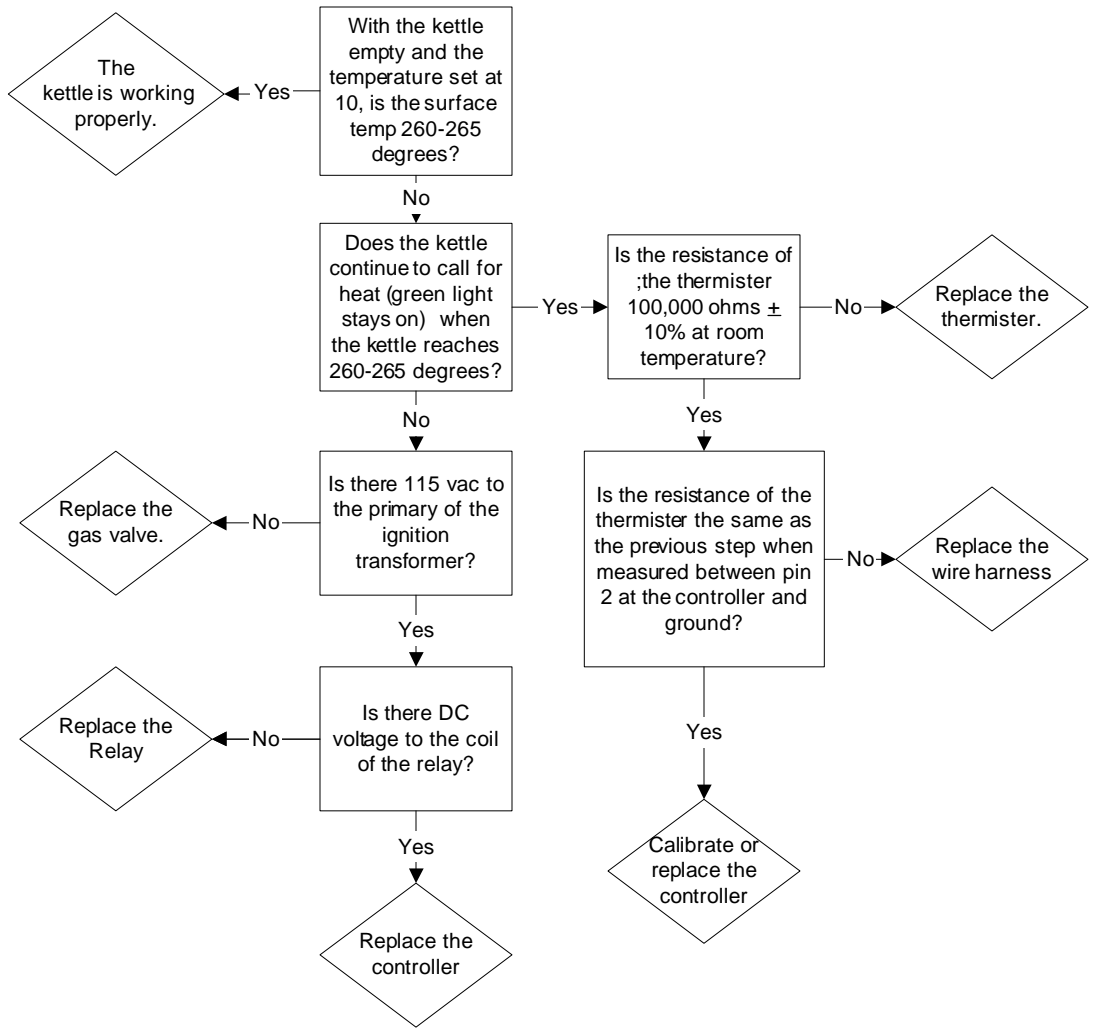
**PROBLEM:
KGT
KGL-25
Kettle Won't
Heat**



**PROBLEM:
KGT
KGL-25
Kettle Not
Hot Enough**



**PROBLEM:
KGT
KGL-25
Kettle Gets
Too Hot**



PROBLEM: Red Add Water LED Stays On

