

1.0 Reference and Address			
Report Number	105832010CRT-001	Original Issued: 11-Jun-2024	Revised: None
Standard(s)	Movable and Wall- or Ceiling-Hung Electric Room Heaters [ANSI/UL 1278:2014 Ed.4+R:08Mar2024]		
Applicant	Lasko Products LLC	Manufacturer 1	Risheng Electrical Appliances Co. Ltd
Address	820 Lincoln Ave West Chester, PA 19380	Address	Chuangye Industry Zone, Xinhe, Wanjiang DistrictDongguan City, Guangdong Province, 523000
Country	USA	Country	China
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2.0 Product Description	
Product	Movable Air Heater
Brand name	Lasko
Description	The product covered by this report is a household, indoor use, cord connected electric Movable Air Heater with remote control using two "AAA" batteries.
Models	CS27650, CT24950.
Model Similarity	Model CT24950 is identical to CS27650 except for pcb, control graphics and has no pedestal base. Only CT24950 includes a Photoelectric Tip Over Switch.
Ratings	120V, 1500W, 60Hz
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External Overall View of CT24950



3.0 Product Photographs

Photo 1a - External Overall View of CS27650 (With Pedestal Base)



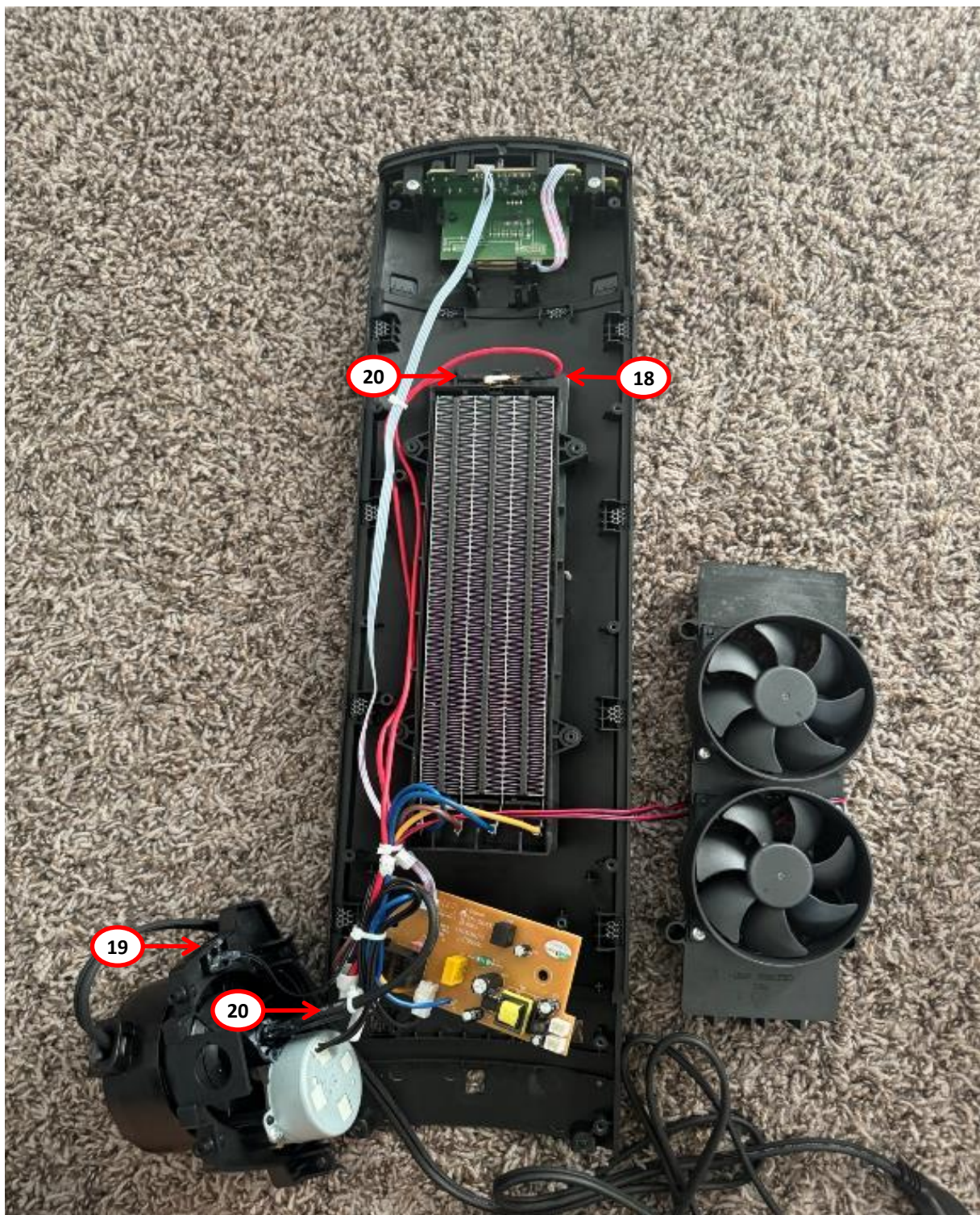
3.0 Product Photographs

Photo 2 - Internal Overall View of CT24950



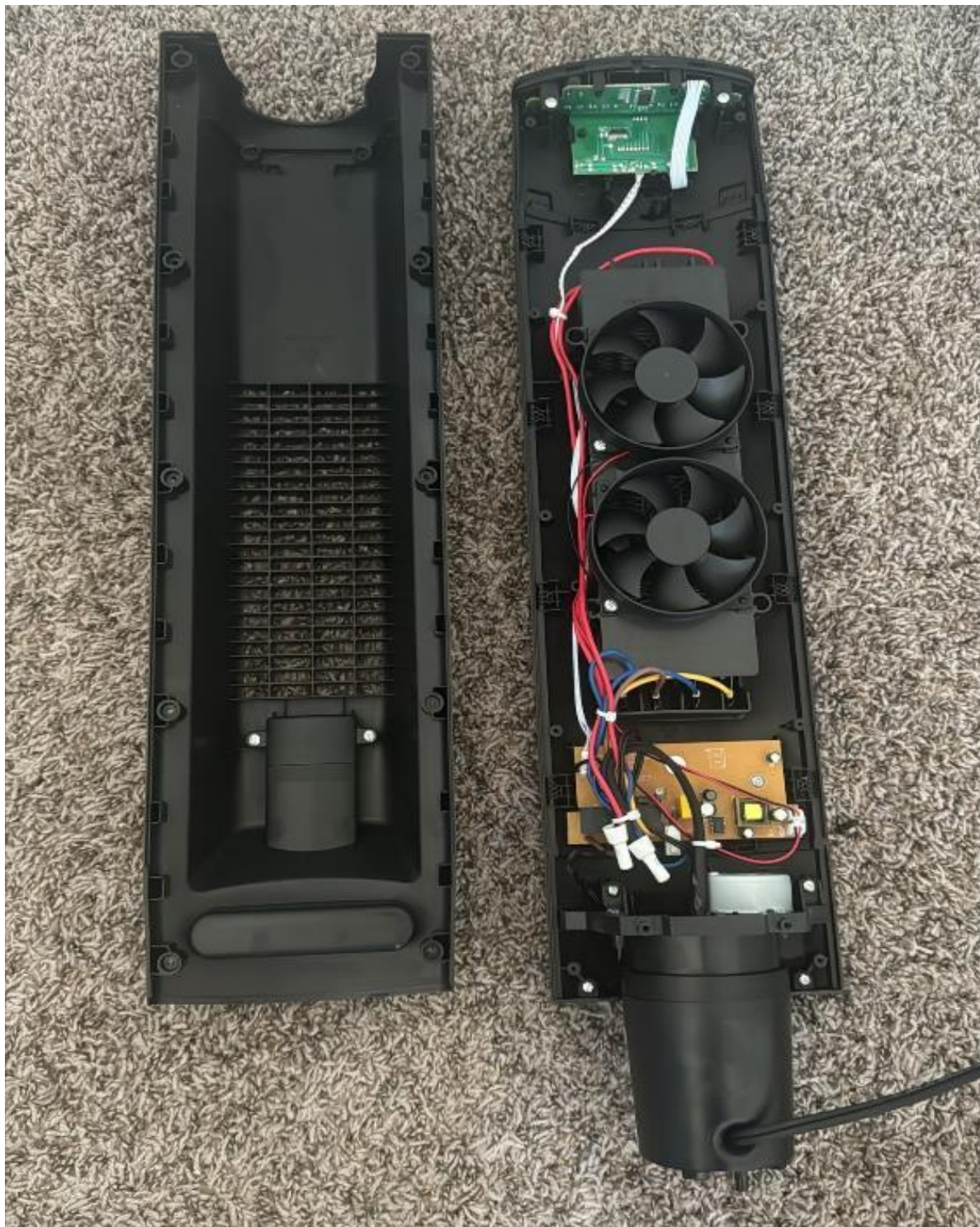
3.0 Product Photographs

Photo 2a - Internal Overall View of CT24950



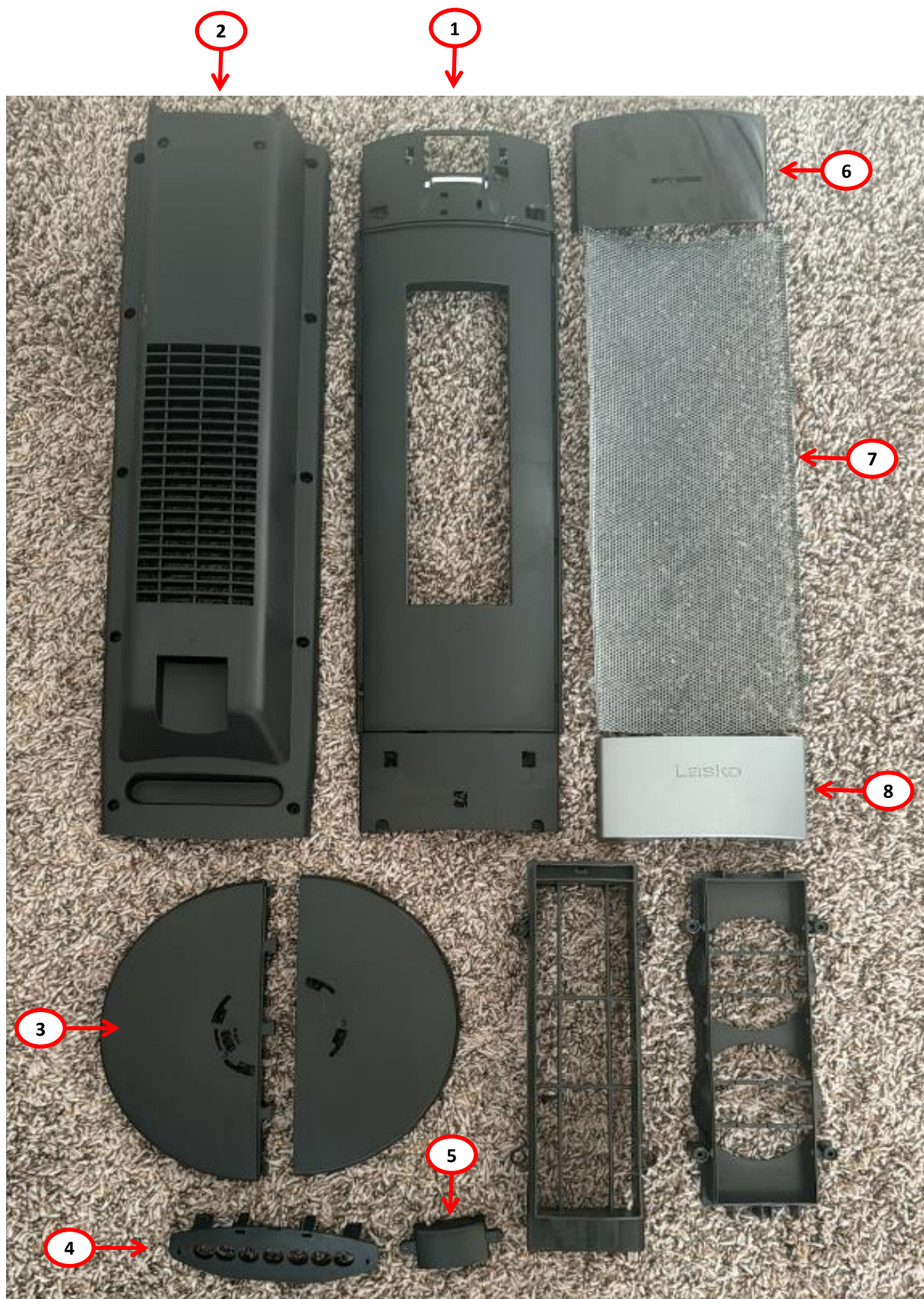
3.0 Product Photographs

Photo 2b - Internal Overall View of CS27650 (With Pedestal Base)



3.0 Product Photographs

Photo 3 - Enclosure Component View of CT24950 (Also represents CS27650)



3.0 Product Photographs

Photo 4 - Fan, Motor, Heater Assembly View of CT24950 (Also represents CS27650)



3.0 Product Photographs

Photo 5 - Topace Power PCB View (CT24950)

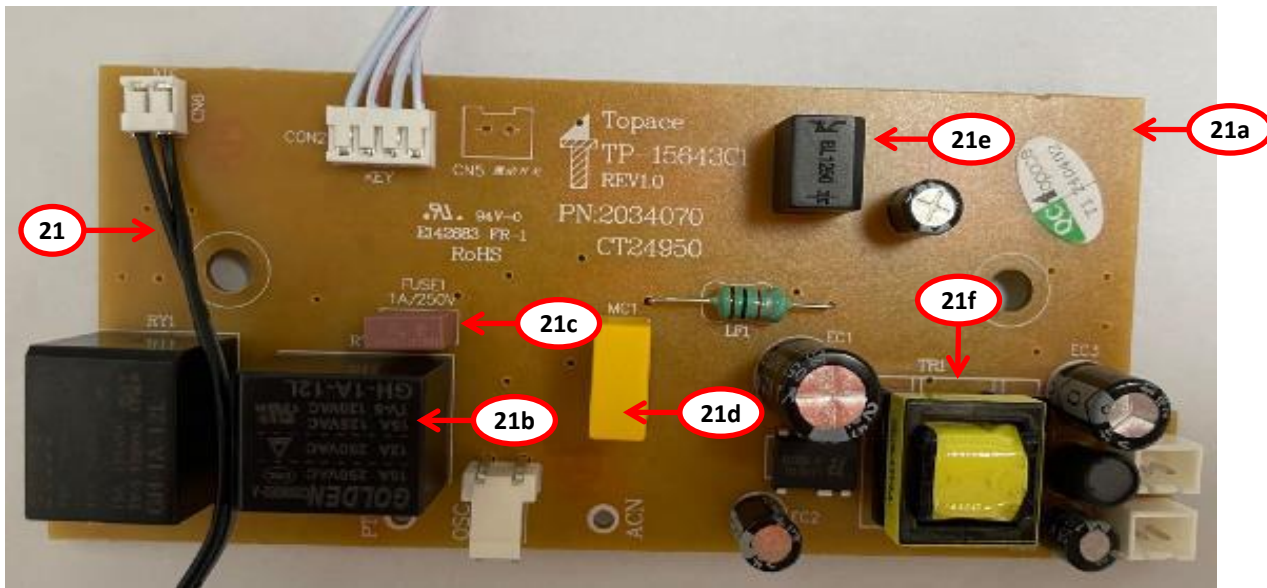
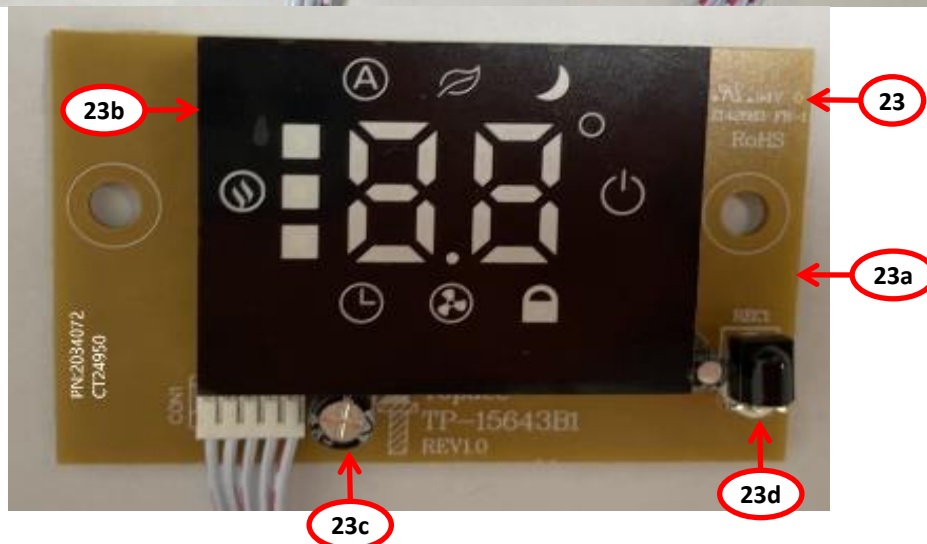
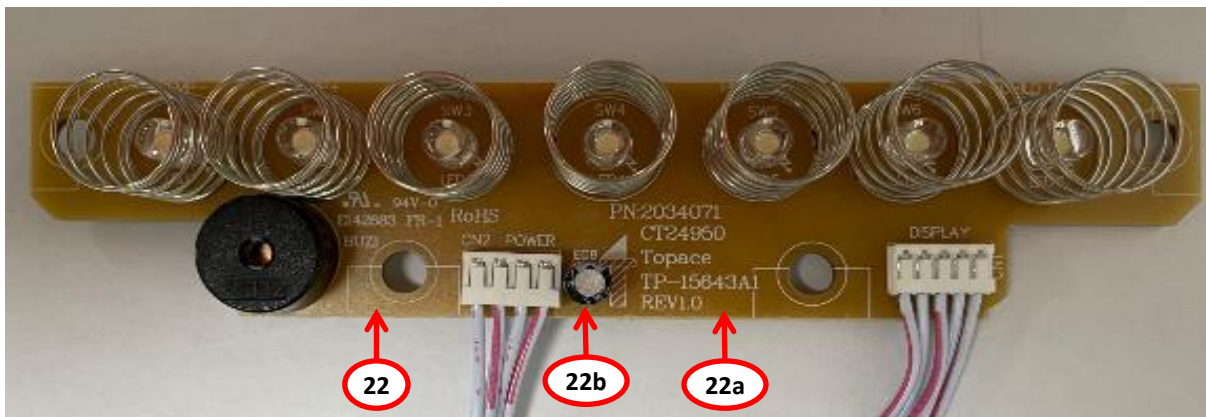


Photo 5a - Topace Control PCB View (CT24950)

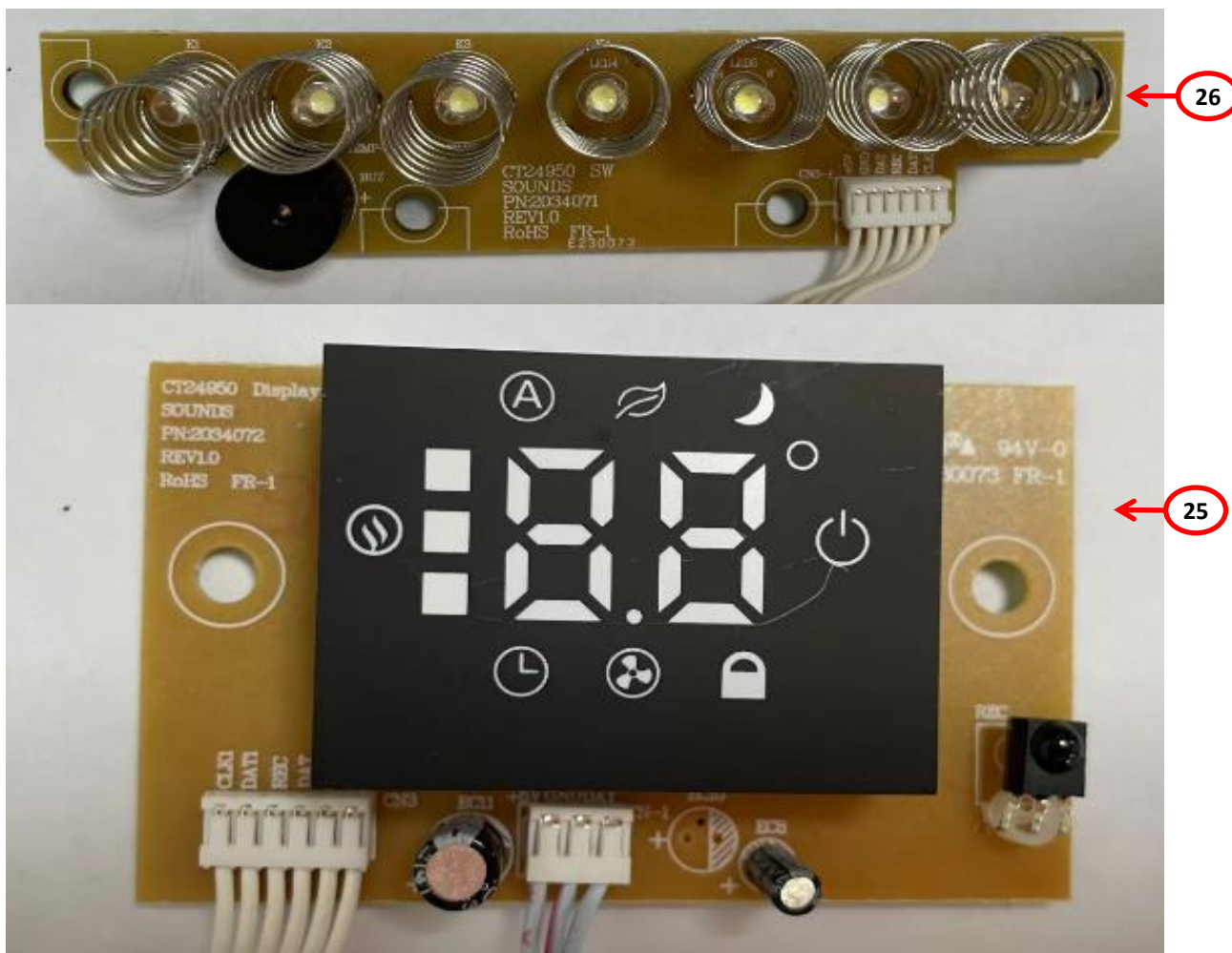


3.0 Product Photographs

Photo 6 - Sounds Power PCB View (CT24950)



Photo 6a - Sounds Control PCB View (CT24950)

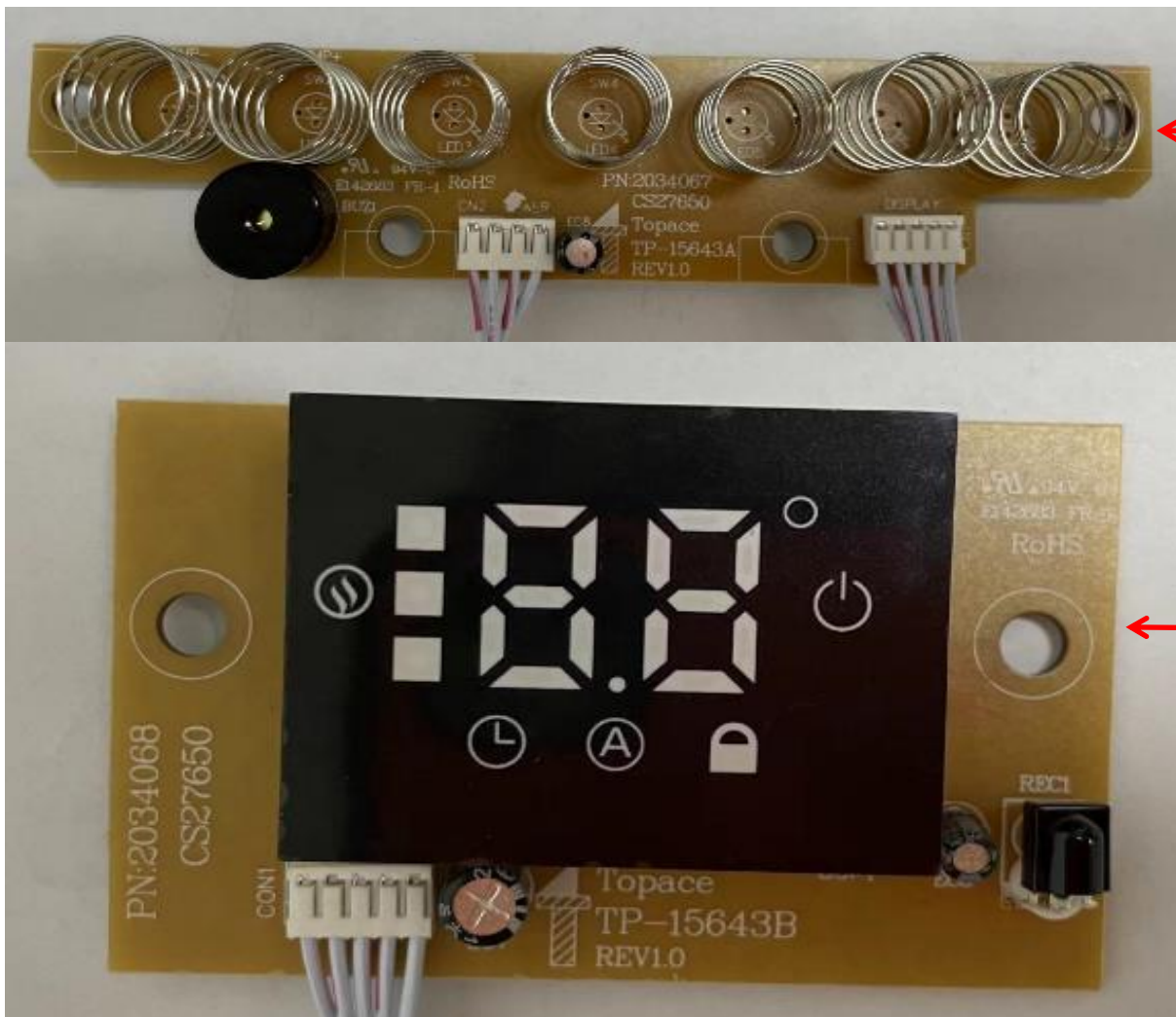


3.0 Product Photographs

Photo 7 - Topace Power PCB View (CS27650)



Photo 7a - Topace Control PCB View (CS27650)

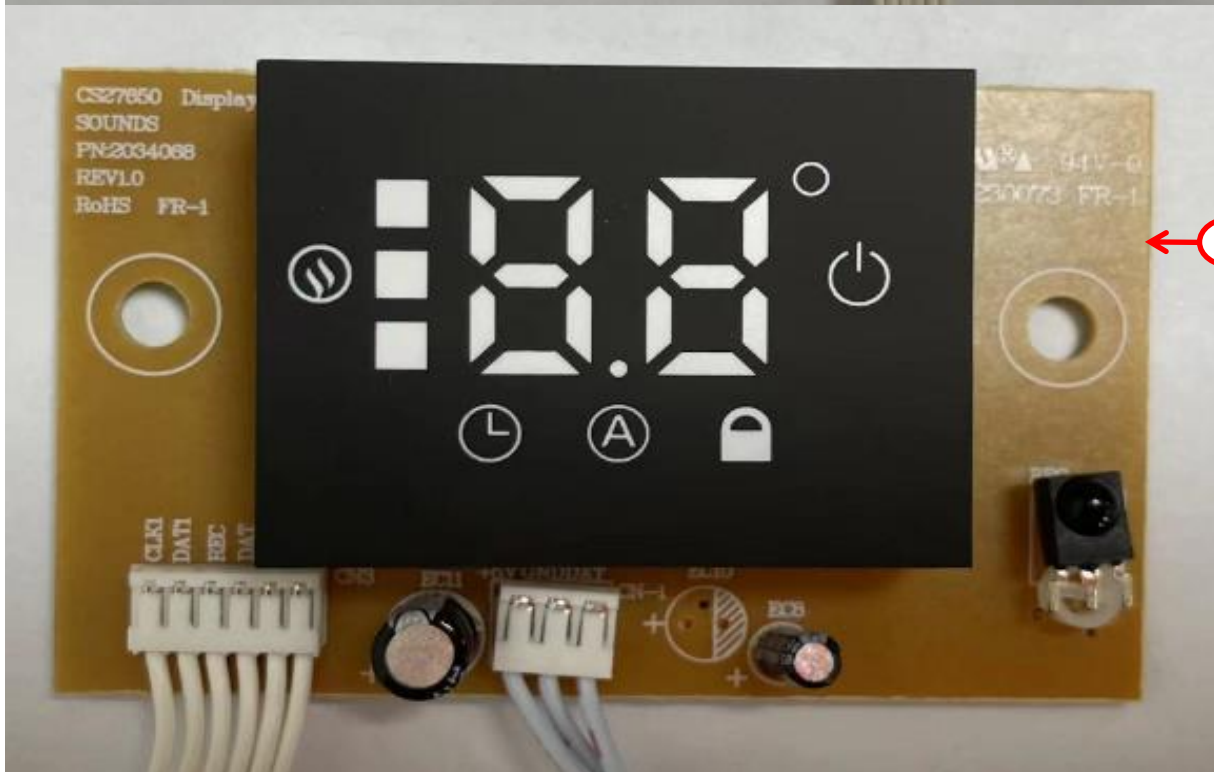


3.0 Product Photographs

Photo 8 - Sounds Power PCB View (CS27650)



Photo 8a - Sounds Control PCB View (CS27650)



3.0 Product Photographs

Photo 9 - Remote Control Power by AAA batteries



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3	1	Front Body	POLYROCKS CHEMICAL CO LTD	5000(f1)	PP, Rated V-0, 120°C, minimum 0.75mm thick. (Color - All) Secured to Rear Body by design and screws. (f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.	cURus
			SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	433+	PP, Rated V-0, 110°C, minimum 0.75mm thick. (Color - All) Secured to Rear Body by design and screws.	cURus
3	2	Rear Body	POLYROCKS CHEMICAL CO LTD	5000(f1)	PP, Rated V-0, 120°C, minimum 0.75mm thick. (Color - All) Secured to Front Body by design and screws. (f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.	cURus
			SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	433+	PP, Rated V-0, 110°C, minimum 0.75mm thick. (Color - All) Secured to Front Body by design and screws.	cURus
3	3	Base	POLYROCKS CHEMICAL CO LTD	5000(f1)	PP, Rated V-0, 120°C, minimum 0.75mm thick. (Color - All) Secured to Oscillation Cover by design and fit. (f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.	cURus
			SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	433+	PP, Rated V-0, 110°C, minimum 0.75mm thick. (Color - All) Secured to Oscillation by design and fit.	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3	4	Control Bracket	POLYROCKS CHEMICAL CO LTD	5000(f1)	PP, Rated V-0, 120°C, minimum 0.75mm thick. (Color - All) Secured to Front Body by design and screws. (f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.	cURus
			SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	433+	PP, Rated V-0, 110°C, minimum 0.75mm thick. (Color - All) Secured to Front Body by design and screws.	cURus
3	5	Remote Holder	POLYROCKS CHEMICAL CO LTD	5000(f1)	PP, Rated V-0, 120°C, minimum 0.75mm thick. (Color - All) Secured to Rear Body by design and screws. (f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.	cURus
			SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	433+	PP, Rated V-0, 110°C, minimum 0.75mm thick. (Color - All) Secured to Rear Body by design and screws.	cURus
3	6	Lens	LG CHEM LTD	LUPOY GN1006F(m)	PC, Rated V-0, 110°C, minimum 2.5mm thick. (Color - All) Secured between Front/Rear Body by design, snap fit and screws. (m) – May be followed by 1 or 2 suffix letters from A-Z incl., except F, FF, FH.	cURus
			SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	230	PC, Rated V-0, 80°C, minimum 0.8mm thick. (Color - NC, RD) Secured between Front/Rear Body by design, snap fit and screws.	cURus

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3	6a	Lens Accent (Not Shown)	LG CHEM HUIZHOU PETROCHEMICAL CO LTD	AF312B	ABS, Rated V-0, 70°C, minimum 2.1mm thick. (Color - All) Secured inside Lens by design and fit.	cURus
			LOTTE CHEMICAL CORPORATION	VH-0815(+)	ABS, Rated V-0, 85°C, minimum 2.0mm thick. (Color - All) Secured inside Lens by design and fit. (+) – May be replaced by one, two, or three numbers and/or letter(s)	cURus
3	7	Front Grill	VARIOUS	Metal	Minimum 0.7mm thick. STEEL	NR
3	8	Bottom Badge	LG CHEM HUIZHOU PETROCHEMICAL CO LTD	AF312B	ABS, Rated V-0, 70°C, minimum 2.1mm thick. (Color - All) Secured to Front Body by design, snap fit and screws.	cURus
			LOTTE CHEMICAL CORPORATION	VH-0815(+)	ABS, Rated V-0, 85°C, minimum 2.0mm thick. (Color - All) Secured to Front Body by design, snap fit and screws. (+) – May be replaced by one, two, or three numbers and/or letter(s)	cURus
4	9	Element Holder	KINGFA SCI & TECH CO LTD	PBT-RG301(r1)	PBT Rated V-0, 125°C, minimum 1.5mm thick. (Color - All) Secured to Front Body by design and screws. (r1) – Virgin and regrind material up to 50% by weight have the same V-0 flammability characteristics in the 0.3mm to 3.0mm thickness. No other properties for regrind have been evaluated.	cURus
			NANTONG ORIENT PLASTICS CO LTD	3080 G30	PBT Rated V-0, 130°C, minimum 1.6mm thick. (Color - All) Secured to Front Body by design and screws.	cURus
4	10	Ceramic Heater Element	DONGGUAN LONGYANG ELECTRONIC TECHNOLOGY CO LTD	LYB-120-1500	Rated 120V, 1500W, 225°C Overall size: 238*66*15mm	cURus
			DONGGUAN CITY LONGKEY ELECTRONIC CO LTD	RFB-120-1500	Rated 120V, 1500W, 225°C Overall size: 238*66*15mm	cURus

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4	11	Element Bracket	KINGFA SCI & TECH CO LTD	PBT-RG301(r1)	PBT Rated V-0, 125°C, minimum 1.5mm thick. (Color - All) Secured to Front Body by design and screws. (r1) – Virgin and regrind material up to 50% by weight have the same V-0 flammability characteristics in the 0.3mm to 3.0mm thickness. No other properties for regrind have been evaluated.	cURus
			NANTONG ORIENT PLASTICS CO LTD	3080 G30	PBT Rated V-0, 130°C, minimum 1.6mm thick. (Color - All) Secured to Front Body by design and screws.	cURus
4	12	DC Fan	SHENZHEN HAOZHI TECHNOLOGY CO LTD	FD9025SH	Rated 12VDC, 0.25A (2 Provided in total)	cURus
			SHENZHEN YONGYIHAO ELECTRONIC CO LTD	YY9225L12S	Rated 12VDC, 0.2A (2 Provided in total)	cURus
4	13	Oscillation Motor	FOSHAN SHUNDE HENGXING MICRO MOTOR CO LTD	TYJ50-8A	Rated 120V, 60Hz, 4W, 6RPM	cURus
			MINZHUO ELECTRIC CO LTD	50TYZ-0.2B02	Rated 120V, 60Hz, 4W, 6RPM	cURus
			JIANGMENT DONGRUN MECHINERY AND ELECTRICAL CO LTD	TY50J	Rated 120V, 60Hz, 4W, 5RPM	cURus
4	14	Oscillation Bracket	LG CHEM HUIZHOU PETROCHEMICAL CO LTD	AF312B	ABS, Rated V-0, 70°C, minimum 2.1mm thick. (Color - All) Secured by design and fit.	cURus
			LOTTE CHEMICAL CORPORATION	VH-0815(+)	ABS, Rated V-0, 85°C, minimum 2.0mm thick. (Color - All) Secured by design and fit. (+) – May be replaced by one, two, or three numbers and/or letter(s)	cURus

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4	15	Oscillation Cover	LG CHEM HUIZHOU PETROCHEMICAL CO LTD	AF312B	ABS, Rated V-0, 70°C, minimum 2.1mm thick. (Color - All) Secured to Oscillation Bracket by design and screws.	cURus
			LOTTE CHEMICAL CORPORATION	VH-0815(+)	ABS, Rated V-0, 85°C, minimum 2.0mm thick. (Color - All) Secured to Oscillation Bracket by design and screws. (+) – May be replaced by one, two, or three numbers and/or letter(s)	cURus
4	16	Oscillation Adapter	SUPER-DRAGON ENGINEERING PLASTICS CO LTD	PA66FG430	Nylon, Rated V-0, 120°C, minimum 0.75mm thick. (Color - All) Secured to Base by design and screws.	cURus
			KINGFA SCI & TECH CO LTD	PA66-RG301	Nylon, Rated V-0, 115°C, minimum 0.75mm thick. (Color - All) Secured to Base by design and screws.	cURus
4	17	Cam+Link	SUPER-DRAGON ENGINEERING PLASTICS CO LTD	PA66FG430	Nylon, Rated V-0, 120°C, minimum 0.75mm thick. (Color - All) Secured to Oscillation Motor by design and screw.	cURus
			KINGFA SCI & TECH CO LTD	PA66-RG301	Nylon, Rated V-0, 115°C, minimum 0.75mm thick. (Color - All) Secured to Oscillation Motor by design and screw.	cURus
2a	18	Thermostat	AUONE ELECTRONIC MFG LTD	AUT-70	Rated 125V, 70°C	cURus
			FOSHAN EAGLE TECHNOLOGY CO LTD	AMT-P2	Rated 125V, 70°C	cURus
2a	19	NTC	ZHONG SHAN JIU LING ELECTRONIC TECHNOLOGY CO.,LTD	JL-SC-103F3950FA	Rated 10K±2%/B=3950±1%	NR
			VARIOUS	VARIOUS		
2a	20	Heat Shrinkable Sleeve	DONGGUAN SALIPT CO LTD	ALIPT S-901-600	Rated 600V, 125°C, VW-1. All except clear.	cURus
			VARIOUS	VARIOUS		
5, 7	21	Power Board (Topace)	TOPACE TECHNOLOGY CO LTD	2034070	Rated 120V, 60Hz. Comprised of components 21a to 21h.	NR
				2034066	Rated 120V, 60Hz. Comprised of components 21a to 21h except 21e.	NR

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5	21a	PCB	YEE KING INTERNATIONAL SOURCING LTD	YK2	Recognized component, ZPMV2 SS, Rated V-0, 130°C, 1.6mm thick.	UR
			VARIOUS	VARIOUS		
5	21b	Relay	DONGGUAN GOLDEN ELECTRICAL APPLIANCE CO LTD	GH-1A-12L	250V, 12A, 10A / 277V, 15A / 125V, TV-5/120V (Shown on PCB as RY1, RY2)	cURus
			SANYOU CORPORATION LIMITED	SRD-S-112DM	250V, 12A, 10A / 277V, 15A / 125V, TV-5/120V (Shown on PCB as RY1, RY2)	cURus
			ZHEJIANG MEISHUO ELECTRIC TECHNOLOGY CO LTD	MPA-S-112-A	250V, 12A, 10A / 277V, 15A / 125V, TV-5/120V (Shown on PCB as RY1, RY2)	cURus
5	21c	Current Fuse	XC ELECTRONICS (SHENZHEN) CORP LTD	5TE	Rated 250V, 1A (Shown on PCB as Fuse1)	cURus
			VARIOUS	VARIOUS		
5	21d	X2 Capacitor	VARIOUS	MPX	Rated 275V, 104(K) (Shown on PCB as MC1)	cURus
5	21e	Photoelectric Tip Over Switch	DONGGUAN BAILING ELECTRON CO LTD	BL-1250	Rated 4.5-5V, 6-10mA, 45 ± 10 degree (Shown on PCB as SW8)	NR
5	21f	Transformer	GUANG DONG GUOCI ELECTRONICS LIMITED	EE16-12V1A	Input: 120V ; Output: 12V (Shown on PCB as TR1)	See 5.0
5	21g	Capacitors (Not Shown)	VARIOUS	Electrolytic	Rated 22uF, 250V (Shown on PCB as EC1)	NR
			VARIOUS	Electrolytic	Rated 47uF, 50V (Shown on PCB as EC2)	NR
			VARIOUS	Electrolytic	Rated 470uF, 25V (Shown on PCB as EC3)	NR
			VARIOUS	Electrolytic	Rated 220uF, 16V (Shown on PCB as EC4)	NR
			VARIOUS	Electrolytic	Rated 100uF, 25V (Shown on PCB as EC5)	NR
5	21h	SMT Triac (Not Shown)	JIEJIE MICROELECTRONICS CO LTD	JST131N2(131 N2-8D)	Rated 800V, 1A (Shown on PCB as T1)	NR
5a, 7a	22	Control Board (Topace)	TOPACE TECHNOLOGY CO LTD	2034071	Rated 120V, 60Hz. Comprised of components 22a - 22b.	NR
				2034067		NR
5a	22a	PCB	YEE KING INTERNATIONAL SOURCING LTD	YK2	Recognized component, ZPMV2 SS, Rated V-0, 130°C, 1.6mm thick.	UR
			VARIOUS	VARIOUS		

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5a	22b	Capacitor	VARIOUS	Electrolytic	Rated 100uF, 16V (Shown on PCB as EC8)	NR
5a, 7a	23	Display Board (Topace)	TOPACE TECHNOLOGY CO LTD	2034072	Rated 120V, 60Hz. Comprised of components 23a to 23d.	NR
				2034068	Rated 120V, 60Hz. Comprised of components 23a to 23d.	NR
5a	23a	PCB	YEE KING INTERNATIONAL SOURCING LTD	YK2	Recognized component, ZPMV2 SS, Rated V-0, 130°C, 1.6mm thick.	UR
			VARIOUS	VARIOUS		
5a	23b	LED Display	VARIOUS	VARIOUS	Rated Double 8, white, 2.8-3.2V, 20mA (Shown on PCB as DSP1)	NR
5a	23c	Capacitor	VARIOUS	Electrolytic	Rated 47uF, 16V (Shown on PCB as EC6)	NR
					Rated 220uF, 16V (Shown on PCB as EC7)	NR
5a	23d	IR-Receiver	VARIOUS	IRM138	Rated 5V, 0.4-0.5mA (Shown on PCB as REC1)	NR
				VARIOUS		
6, 8	24	Power Board (Sounds)	SOUNDS ELECTRIC CO LTD	2034070	Rated 120V, 60Hz. Comprised of components 24a to 24h.	NR
				2034066	Rated 120V, 60Hz. Comprised of components 24a to 24h except 24e.	NR
6, 8	24a	PCB (Not Shown)	ZHONGSHAN LIXIN CHAIN-BOARD CO LTD	FR-1	Recognized component, ZPMV2 SS, Rated V-0, 130°C, 1.6mm thick.	UR
			VARIOUS	VARIOUS		
6, 8	24b	Relay (Not Shown)	DONGGUAN GOLDEN ELECTRICAL APPLIANCE CO LTD	GH-1A-12L	250V, 12A, 10A / 277V, 15A / 125V, TV-5/120V (Shown on PCB as KA1, KA2)	cURus
			ZHEJIANG MEISHUO ELECTRIC TECHNOLOGY CO LTD	MPA-S-112-A	250V, 12A, 10A / 277V, 15A / 125V, TV-5/120V (Shown on PCB as KA1, KA2)	cURus
			SHENZHEN YUANZE ELECTRIC CO LTD	Y3F-SS-112DM	250V, 12A, 10A / 277V, 15A / 125V, TV-5/120V (Shown on PCB as KA1, KA2)	cURus
			ZHONGSHAN XIAOLAN GUOKE RELAY FACTORY	GK3FF-12VDC-S-A	250V, 12A, 10A / 277V, 15A / 125V, TV-5/120V (Shown on PCB as KA1, KA2)	cURus
			NINGBO ZETTLER ELECTRONICS CO LTD	JQC-3FF/012-1HS(551)	250V, 12A, 10A / 277V, 15A / 125V, TV-5/120V (Shown on PCB as KA1, KA2)	cURus

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6, 8	24c	Current Fuse (Not Shown)	SHENZHEN LANSON ELECTRONICS CO LTD	SMT	Rated 250V, 1A (Shown on PCB as Fuse)	cURus
			VARIOUS	VARIOUS		
6, 8	24d	X2 Capacitor (Not Shown)	VARIOUS	MPX	Rated 275V, 224(K) (Shown on PCB as CX11)	cURus
				MKP-X2		
6, 8	24e	Photoelectric Tip Over Switch (Not Shown)	DONGGUAN BAILING ELECTRON CO LTD	BL-1250	Rated 4.5-5V, 6-10mA, 45 ± 10 degree (Shown on PCB as SW)	NR
6, 8	24f	Transformer (Not Shown)	GUANG DONG GUOCI ELECTRONICS LIMITED	EE16-12V1A	Input: 120V ; Output: 12V (Shown on PCB as T1)	See 5.0
6, 8	24g	Capacitors (Not Shown)	VARIOUS	Electrolytic	Rated 22uF, 250V (Shown on PCB as EC2)	NR
			VARIOUS	Electrolytic	Rated 47uF, 50V (Shown on PCB as EC3)	NR
			VARIOUS	Electrolytic	Rated 470uF, 25V (Shown on PCB as EC4)	NR
			VARIOUS	Electrolytic	Rated 220uF, 16V (Shown on PCB as EC5)	NR
6, 8	24h	Triac (Not Shown)	JIANGSU DONGCHEN ELECTRONICS TECHNOLOGY CO.,LTD	BT131	TO-92 1A (Shown on PCB as TR1)	NR
			SHANGHAI SEEFULL ELECTRONIC CO.,LTD	T1M5F		
			ADVANCED CORPORATION LIMITED	ADVS1D80		
6a, 8a	25	Display Board (Sounds)	SOUNDS ELECTRIC CO LTD	2034072	Rated 120V, 60Hz. Comprised of components 25a to 25d.	NR
				2034068		
6a, 8a	25a	PCB (Not Shown)	ZHONGSHAN LIXIN CHAIN-BOARD CO LTD	FR-1	Recognized component, ZPMV2 SS, Rated V-0, 130°C, 1.6mm thick.	UR
			VARIOUS	VARIOUS		
6a, 8a	25b	LED Display (Not Shown)	VARIOUS	UVO-E2347CWR-B	Rated Double8, white, 2.8-3.2V, 20mA (Shown on PCB as DSP1)	NR
				XH-4723ARWG		
6a, 8a	25c	Capacitor (Not Shown)	VARIOUS	Electrolytic	Rated 220uF, 16V (Shown on PCB as EC8)	NR
			VARIOUS	Electrolytic	Rated 47uF, 16V (Shown on PCB as EC11)	NR
6a, 8a	25d	IR-Receiver (Not Shown)	VARIOUS	IRM138BTL	Rated 5V 10mA 0.4-0.5mA (Shown on PCB as REC)	NR
				VARIOUS		

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6a, 8a	26	Control Board (Sounds)	SOUNDS ELECTRIC CO LTD	2034071	Rated 120V, 60Hz. Comprised of components 26a.	NR
				2034067		NR
6a, 8a	26a	PCB (Not Shown)	YEE KING INTERNATIONAL SOURCING LTD	YK2	Recognized component, ZPMV2 SS, Rated V-0, 130°C, 1.6mm thick.	UR
			VARIOUS	VARIOUS		
9	27	Remote Control (Not Shown)	VARIOUS	VARIOUS	Remote controls uses two "AAA" batteries.	NR
1	28	Internal Wire (Not Shown)	VARIOUS	1015	Rated 600V, 105°C, VW-1 16AWG for Element and TCO. 20-22AWG for other main circuit	cURus
1	29	Closed End Connector (Not Shown)	HEAVY POWER CO LTD	VARIOUS	Rated 300V Max. 105°C, 22-14 AWG	cURus
1	30	Power Cord (Not Shown)	RISHENG ELECTRICAL APPLIANCES CO LTD	HPN-R	16AWGx2C, 105°C, VW-1, 300V Cord length between 6ft (1.8m) and 8ft (2.4m). Provided with 2 prong NEMA 1-15P style polarized plug rated 125V, 15A.	cULus
			UNIRISE ELECTRIC WIRE & CABLE CO LTD	HPN-R		
1	31	Cord Tag (Not Shown)	LASKO PRODUCTS LLC	Tyvek L 1057D	Label with adhesive, DRAGON-FC Ink imprinted on top of base material. Rated for use on HPN-R cord 16AWG or larger.	ETLus Recognized
1	31a	Caution Marking Label (Not Shown)	LIAN YI PRINTING CO LTD	LY-03	Applied to Rear Body Item # 2 Rated Surface: Polypropylene -40 to 80°C	UR
1	31b	Rating Label (Not Shown)	LIAN YI PRINTING CO LTD	LY-03	Applied to Rear Body Item # 2 Rated Surface: Polypropylene -40 to 80°C	UR
NOTES: 1) Not all item numbers are indicated (called out) in the photos, as their location is obvious. 2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used. 3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.						

5.0 Critical Unlisted CEC Components

INSULATED COIL							
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model			
5	21f	Transformer	GUANG DONG GUOCI ELECTRONICS LIMITED	EE16-12V1A			
Electrical Rating:			Input: 120V ; Output: 12V	Insulation class A			
Component Standard used:			UL 1278				
MATERIALS LIST (refer to illustration 6 for assembly drawing)							
Component		Manufacturer	Type/model	Dimensions/thickness/assembly information			
Bobbin		CHANG CHUN PLASTICS CO LTD	T375J(G5)(G6)	Rated V-0, 150°C, minimum 0.75mm thick. (Color - BK, BN) E59481			
Wire		DONG GUAN YIDA INDUSTRIAL CO LTD	QA-1/130 2UEW/130	Base Coat: Polyurethane ANSI Type: MW 75-C Temp Class: 130			
Reinforced Insulation		SHENZHEN DARUN SCIENCE AND TECHNOLOGY CO LTD	DRTIW-B	Insulation Type: Reinforced TIW: 34-18 AWG Temp Class: 130(B)			
Tube		HUIZHOU DONGJU FLUO TECH PLASTIC CO LTD	TFL	Rated 150V, 200°C, VW-1. (Color - CL, BK)			
Insulation Tape		SHEN ZHEN XINHUAHUI ELECTRONIC MATERIALS CO LTD	HMT803	Rated 130°C, VW-1. (Color - Yellow)			
Varnish		ZHUHAI CHANGXIAN NEW MATERIALS TECHNOLOGY CO LTD	E962	ANSI Type: MW 28-C Twisted Pair: 130			
WINDING(S) RESISTANCE							
Winding Designation		Wire Size (AWG or mm ²)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
N1 (3--1)		0.17mm	QA-1/130	100	-	-	1.96
N2 (9--6)		0.40mm	DRTIW-B	14	-	-	0.066
VERIFICATION PROCESS							
Frequency:	Annual	Test Site: CEC			Number of samples to test: 1		
Test Name		Test Parameters					
Winding resistance		See resistance per winding above.					
Dielectric Strength		Apply voltage Between			Test Voltage		Test Time
		Primary to core			1240V		60sec
		Primary to secondary			2500V		60sec
		Secondary to core			1000V		60sec

6.0 Critical Features	
<u>Recognized Component</u> - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.	
<u>Listed Component</u> - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.	
<u>Unlisted Component</u> - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.	
<u>Critical Features/Components</u> - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.	
<u>Construction Details</u> - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.	
1.	<u>Spacing</u> - In primary circuits, 1.6mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 1.6 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2.	<u>Mechanical Assembly</u> - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3.	<u>Corrosion Protection</u> - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4.	<u>Accessibility of Live Parts</u> - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5.	<u>Grounding</u> - This product is not provided with a means of grounding as it is rated for 120V indoor use only.
6.	<u>Polarized Connection</u> -This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7.	<u>Internal Wiring</u> - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. For the minimum applicable wiring ratings see Section 4.0.
8.	<u>Schematics</u> - Refer to Illustration No. 1, 1a, 2, 2a for schematics requiring verification during Field Representative Inspection Audits. Verify power switch is located on the line side of the circuit.
9.	<u>Markings</u> - The product is marked on a labeling system as described in item no. 31b of Section 4.0 as follows: • Brand Name or Applicants name • Model number. • Date of manufacture • Electrical rating (volts, amperes and/or power & frequency)
10.	<u>Cautionary Markings</u> - Refer Item 31a of section 4. The product shall be plainly marked "CAUTION" and the following cautionary marking that shall be visible from a point 1.5 m above the floor and between 0.3 and 1.2 m away from the front surface of the heater when the heater is placed in the intended use location and the marking shall be in letters not less than 3.2 mm in height and shall be of a permanent type and in a color that contrasts with that of the enclosure or background. Refer to Illustration 5 for details and wording.

6.0 Critical Features

11. Cord Tag Marking - Refer to Item 31 of section 4. The statements "WARNING - TO REDUCE THE RISK OF FIRE" and "DO NOT REMOVE THIS TAG!" shall be in letters at least 3/16 inch(4.8 mm) in height. The remaining text shall be in letters of at least 1/16 inch (1.6 mm) in height. The tag shall be a flag-type cord tag with an adhesive back. The tag is to be wrapped tightly once around and is to adhere to the supply cord. The ends of the tag are to adhere to each other and project as a flag. The required markings are to be positioned on the projecting flag portion of the tag.

Refer to Illustration 5a for details and wording.

12. Carton Markings - The product shall include the following information pertaining to the heater features and its use conditions. It shall be included on the external surface of the packaging of the heater. All information shall be grouped together and appear on one side, except the bottom of the packaging.

Refer to Illustration 5b for details and wording.

Heater carton information:

WARNING

Rated: 120 Volts AC, 12.5 AMPS, 60HZ

Use only with a standard polarized 120V AC outlet.

It is intended for use on the floor.

Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip). This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when moving this heater. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, and curtains at least 3 feet (0.9m) from the front of the heater and keep them away from the sides and rear. The product is not to be used in bathrooms, laundry areas or other similar locations.

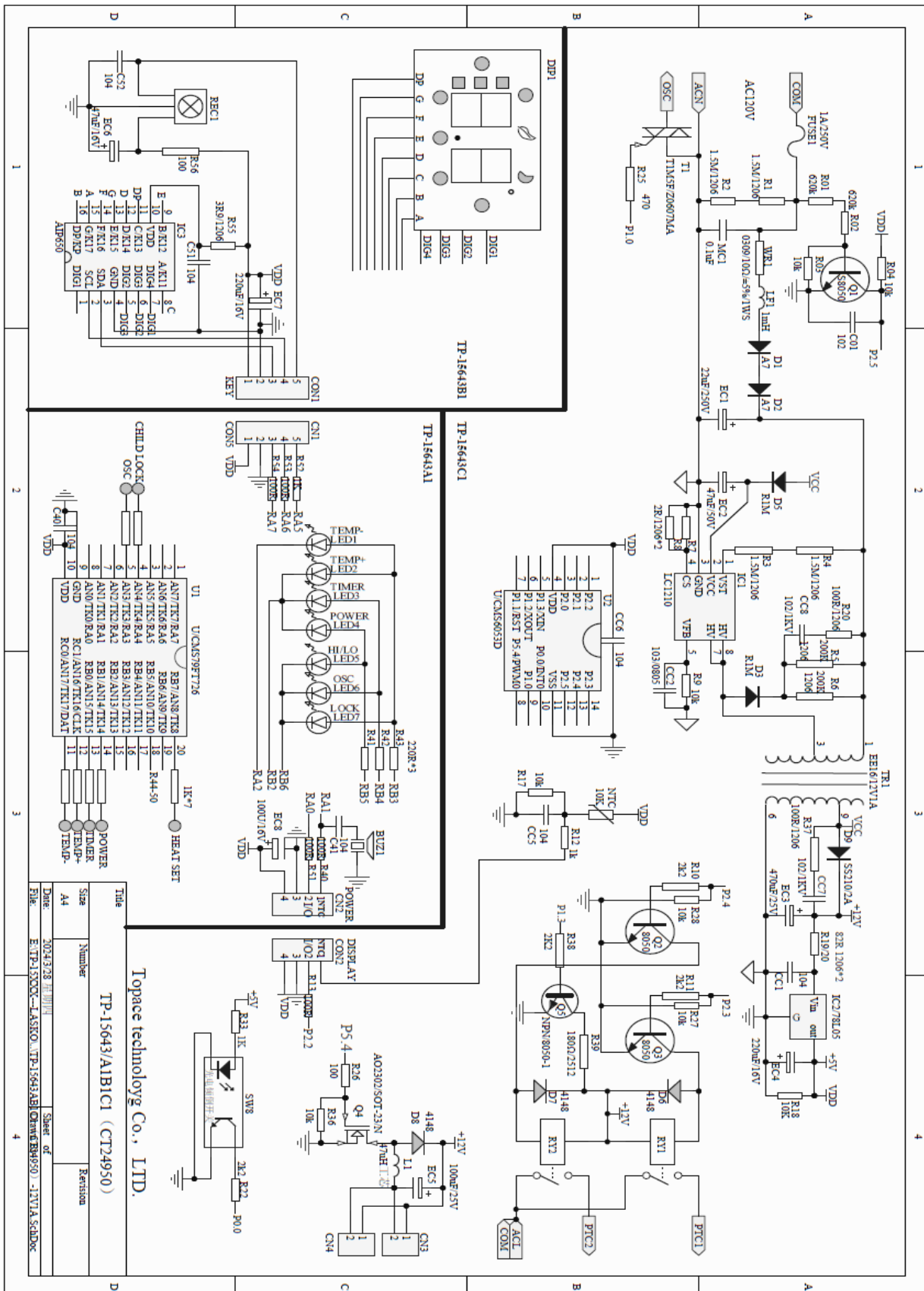
13. Removable Warning Label - The label shall be temporarily affixed and be readily visible on the heater and shall allow easy removal of the label.

Refer to Illustration 5c for details and wording.

14. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustration No(s). 3, 3a, 3b, 4, 4a, 4b for details.

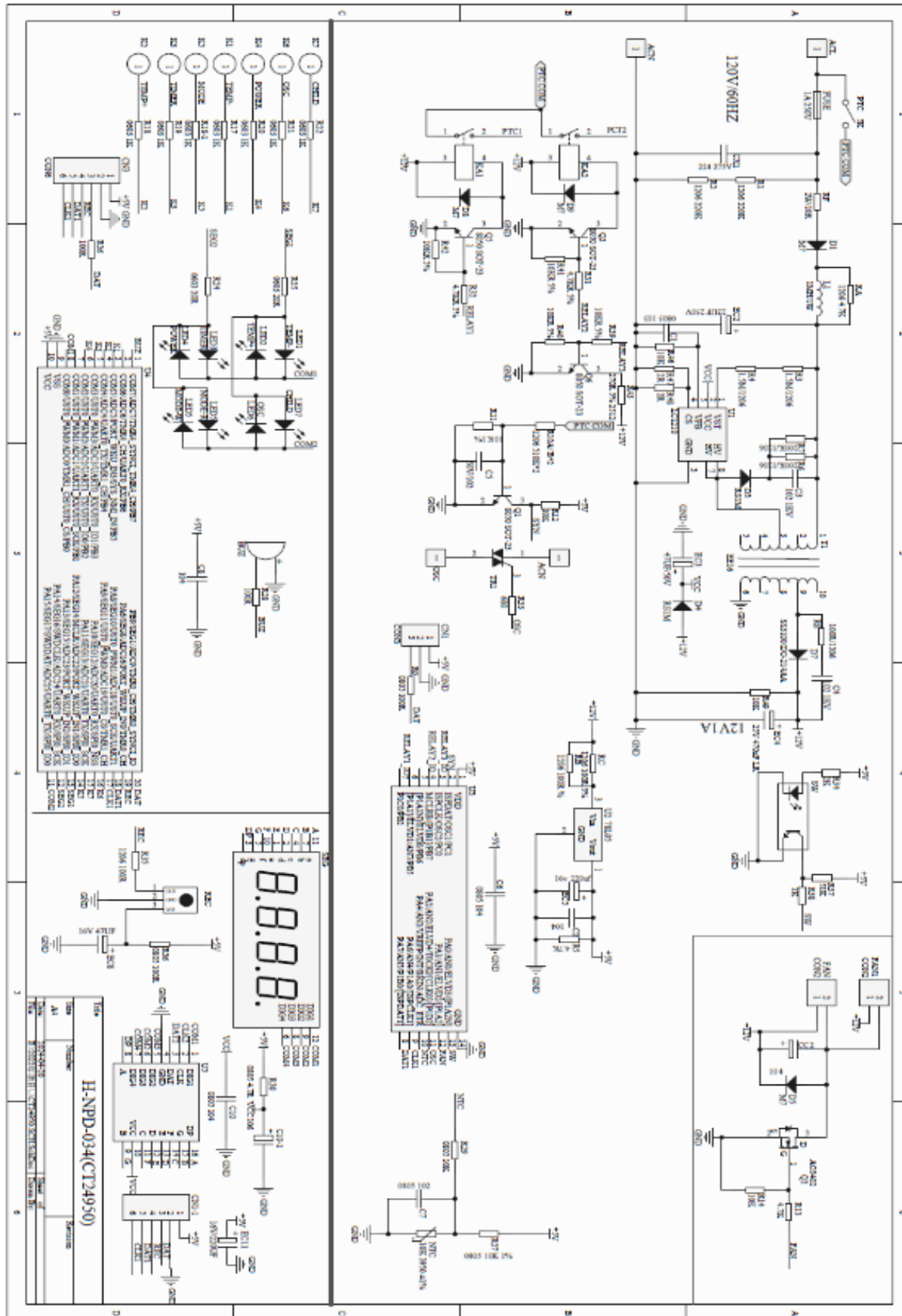
7.0 Illustrations

Illustration 1 - Schematic Topace CT24950



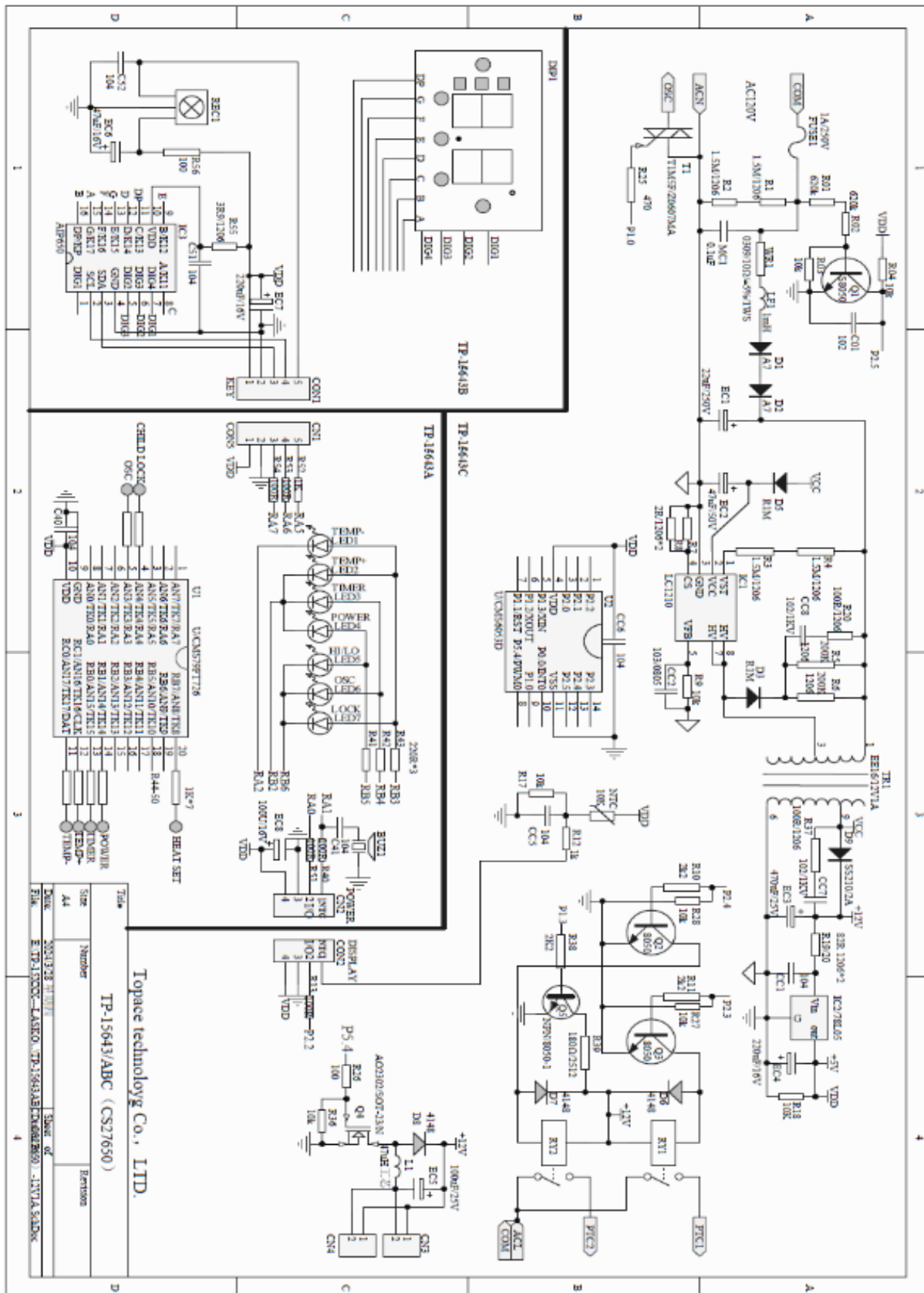
7.0 Illustrations

Illustration 1a - Schematic Sounds CT24950



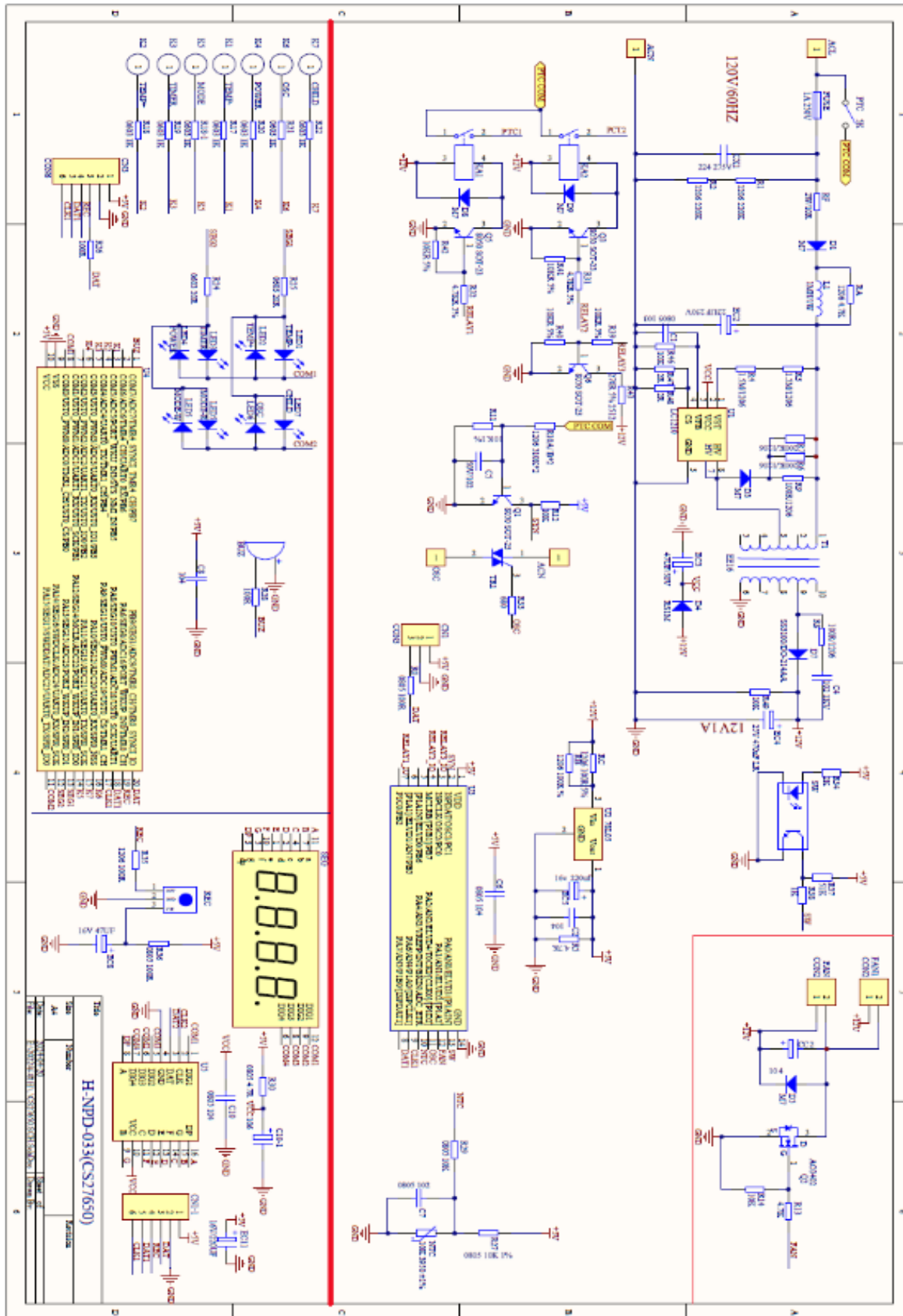
7.0 Illustrations

Illustration 2 - Schematic Topace CS27650



7.0 Illustrations

Illustration 2a - Schematic Sounds CS27650



7.0 Illustrations

Illustration 3 - Safety Instructions for CT24950

Lasko

Ceramic Tower Heater with Remote Control Instruction Manual

Used for Model:
CT24950







Register Your Product Today
You will benefit from:

- Efficient and enhanced support
- Future product updates

Have a Question? Need a Part?
Please Do Not Return Product to Store!
Chat with us at www.lasko.com Monday-Friday 9am - 5pm EST
(Valid in U.S. and Canada only)

READ AND SAVE THESE INSTRUCTIONS
Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage!
This heater is for residential use only. It is not intended to be used in commercial, industrial or agricultural settings.

New 05/24

1

CT24950ES

7.0 Illustrations

Illustration 3a - Safety Instructions for CT24950

**READ ALL INSTRUCTIONS BEFORE USING THIS HEATER.**

**WARNING**

IMPORTANT SAFETY INSTRUCTIONS
When using electrical appliances, these instructions and warnings should always be followed to reduce the risk of fire, electrical shock, injury to persons and hyperthermia:
TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR PERSONAL INJURY, ALWAYS FOLLOW THESE IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS:



Plug heaters directly into a 120v wall outlet/receptacle only. Never use with an extension cord. Do not plug heater into any other cord connected device, such as a power strip, surge protector, multiple outlet adapter, cord reel or outlet-type air freshener. The use of such devices may create a fire hazard. Do not plug multiple devices in the same outlet or on same circuit as heater.



Faulty wall outlet connections may cause the wall outlet to overheat. Be sure that heater plug fits tightly into outlet before each use. During use, check to make certain the heater plug is not overheating. If necessary have a qualified electrician check and/or replace the wall outlet. Do not use this heater with any solid state speed control devices.



Make certain that the power source conforms to the electrical requirements of the heater.



Extreme caution is necessary when any heater is used by or near children or invalids. The heater should not be left operating unattended. Never leave children unattended when the heater is on or plugged in.



This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not attempt to defeat this safety feature.



Do not use the heater in areas where gasoline, paint, or flammable liquids are used or stored. Do not use heater in locations where flammable or explosive chemicals are stored, or in wet atmospheres.



Do not operate any heater with a damaged cord or plug or after the heater malfunctions, or has been dropped or damaged in any manner. To disconnect heater, turn the heater off then remove the plug from the outlet.



Always unplug heater when not in use. Unplug power cord before servicing or moving the heater.



Do not insert or allow fingers or foreign objects to enter any ventilation or exhaust opening as it may cause an electric shock, fire, or damage the heater. Do not block or tamper with the heater in any manner while it is in operation.



Do not block air intakes or exhaust in any manner. Do not place on soft surfaces, like a bed, where openings may become blocked. Do not depend on the on/off switch as the sole means of disconnecting power when servicing or moving the heater. Always unplug the power cord.



Hyperthermia can result in death. Symptoms of hyperthermia include high body temperature, headache, nausea, vomiting, tiredness, dizziness, fainting, and rapid pulse. If you begin to experience symptoms related to hyperthermia, turn off the heater and seek medical attention.



To avoid excessive room temperatures which can cause hyperthermia: DO NOT leave product running unattended in a confined space around infants, or individuals with reduced physical, sensory, or mental capabilities.

**CAUTION**

- Always unplug heater when not in use. Unplug power cord before servicing or moving the heater.
- Do not insert or allow fingers or foreign objects to enter any ventilation or exhaust opening as it may cause an electric shock, fire, or damage the heater. Do not block or tamper with the heater in any manner while it is in operation.
- Do not block air intakes or exhaust in any manner. Do not place on soft surfaces, like a bed, where openings may become blocked. Do not depend on the on/off switch as the sole means of disconnecting power when servicing or moving the heater. Always unplug the power cord.
- Always place the heater on a stable, flat, level surface when operating, to avoid the chance of the heater overturning. Locate the power cord so the heater or other objects are not resting on it. Do not run power cord under carpeting. Do not cover power cord with throw rugs, runners, or similar coverings as this may cause cord to overheat. Arrange power cord away from room traffic and where it will not be tripped over.
- This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Always use handle when moving this heater. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes and curtains at least 3 feet (0.9 M) from the front of the heater and keep them at least 1 foot (0.3 M) from the sides and rear.
- This heater is not intended for use in wet or damp locations. This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate a heater where it may fall into a bathtub or other water container.
- Do not use heater outdoors.
- This heater is not suitable for use in agricultural facilities including areas where livestock, poultry or other animals are confined. Please refer to national electric code (nec) article 547-7 (2008), or applicable state or local codes or standards relating to electrical requirements for agricultural buildings. This heater does not meet the requirements of nec article 547-7 (2008).
- This heater is not suitable for use in hazardous locations. Please refer to national electric code (nec) article 500 or applicable state or local codes or standards relating to electrical requirements for hazardous locations. This heater does not meet the requirements of nec article 500 (2008).
- Remote controls for other appliances or electronic equipment can sometimes interfere with the operation of this heater. If this occurs, move the heater to another location.
- Keep heater remote control unit away from chairs and your bed where it may be sat or laid upon and inadvertently turn on the heater.

SAVE THESE INSTRUCTIONS

REMOTE CONTROL:

- Install two "AAA" batteries (not included).
- Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
- Do not dispose of batteries in fire. Batteries may explode or leak.
- Always purchase the correct size and grade of battery most suitable for the intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed correctly with regards to polarity (+ and -).
- Remove batteries from equipment that is not to be used for an extended period of time.
- Remove used batteries promptly.

7.0 Illustrations

Illustration 3b - Safety Instructions for CT24950



WARNING

TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR PERSONAL INJURY, ALWAYS FOLLOW THESE IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS:

MAINTENANCE

- Always unplug the cord before moving, servicing or cleaning.
- Never place the heater in or near water.
- Clean the heater only with a vacuum equipped with a brush attachment; the vacuum will remove the lint and dirt from inside the heater.
- Vacuum intake grills every two weeks; this will help to maintain the optimum heater performance.
- Never attempt to take apart the heater.
- Clean the body of the heater with a soft cloth only.
- Never use alcohol or solvents such as gasoline, benzene, paint thinner, or other harsh cleaners.

TROUBLESHOOTING TIPS

If your heater fails to operate, see below for a list of probable causes and solutions:

- Be sure the power cord is plugged into a working electrical outlet.
- Check your temperature setting. The heater may be off because it has reached the desired temperature setting.
- If your heater runs for several minutes and shuts off repeatedly, your heater may require cleaning. See maintenance section above.

STORAGE: Store the heater with these instructions, in the original carton in a cool, dry place.

LUBRICATION: Motor is permanently lubricated. No maintenance is required.

DISPOSITION: Corrugated packaging materials are recyclable. For environmentally responsible disposal of this product, contact your local waste service provider or visit www.1800recycling.com

SAFETY FEATURE

- A Tip-Over switch is built in to prevent operation if the heater is tipped over.
- A thermal overload protector is built in to prevent overheating.
- If an overheat temperature is reached, the heater will automatically shut off. It can only resume operation when the user resets the unit.

To Reset Heater:

- Unplug the heater and wait 10 minutes for the heater to cool down.
- After the heater has cooled down, plug the unit into a 120V~ electrical outlet and follow the operation instructions described in this manual.

*AUTOMATIC TEMPERATURE CONTROL

The automatic temperature function operates in all heat modes. It does not operate in fan modes.

1. To set the room at a specific temperature press the Plus Temperature Control button or the Minus Temperature Control button to the desired temperature. The display will now reflect the set temperature and the temperature will be flashing. The heater is now in Auto Temperature Mode.
2. When you reach the desired temperature, the set temperature will flash several times and then the display will return to indicate the current room temperature and will gradually change as the room temperature changes. NOTE: the temperature display does not indicate the temperature of the heated air being emitted by the heater.
3. Once the room temperature reaches 2 degrees above the set temperature, the heater will shut off. Once the room temperature reaches 1 degree below the set temperature, the heater will turn back on and continue to cycle off and on to maintain the set temperature.
4. This function will cancel if the Heat Mode button is pressed. The heater will now be in high or low depending on the selection and run continuously.

NOTE: It is normal for the heater "fan" to run for approximately 15 seconds when the heater shuts off after reaching the set temperature. Press the plus button and minus button at the same time to change the display to ° Celsius. Press the same two buttons together again to change the display back to ° Fahrenheit.

LASKO PRODUCTS, LLC LIMITED WARRANTY (VALID IN U.S. AND CANADA ONLY)

What this warranty covers: This product is warranted against defects in workmanship and/or materials.

How long this warranty lasts: This warranty extends only to the original purchaser of the product and lasts for three (3) years from the date of original purchase or until the original purchaser of the product sells or transfers the product, whichever first occurs.

What Lasko will do: During the warranty period, Lasko will, at its sole option, repair or replace any part or parts that prove to be defective or replace the whole product with the same or comparable model. For all warranty claims, the product must be returned to Lasko Products, LLC at customer's expense with proof of purchase within the warranty period. Contact the Lasko customer service department to obtain a Return Authorization ("RA"). Do not return products without an RA or the warranty claim will not be processed.

What this warranty does not cover: This warranty does not apply if the product was damaged or failed because of accident, improper handling or operation, shipping damage, abuse, misuse, or unauthorized repairs made or attempted. This warranty does not cover shipping costs for the return of products to Lasko for repair or replacement. Lasko will pay return shipping charges from Lasko following warranty repairs or replacement.

Any and all warranties, expressed or implied (including, without limitation, any implied warranty of merchantability), last three years from the date of original purchase or until the original purchaser of the product sells or transfers the product, whichever first occurs and in no event shall Lasko's liability under any express or implied warranty include (i) incidental or consequential damages from any cause whatsoever, or (ii) replacement or repair of any house fuses, circuit breakers or receptacles. Notwithstanding anything to the contrary, in no event shall Lasko's liability under any express or implied warranty exceed the purchase price of the product and any such liability shall terminate upon the expiration of the warranty period.

Some states and provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so these exclusions or limitations may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state and province to province.

Proof of purchase is required before a warranty claim will be accepted.

CUSTOMER SERVICE:

Email: producthelp@lasko.com. Web: www.lasko.com

Our Customer Service team is available to assist you with product service questions and replacement parts. Chat with us at www.lasko.com Monday-Friday 8am - 9pm EST (Valid in U.S. and Canada only). Please have your model number available, as well as the type and style (located on the underside of your product).

Customer Service Dept.,
820 Lincoln Ave., West Chester, PA 19380 (Please do not send product to this location)

7.0 Illustrations

Illustration 4 - Safety Instructions for CS27650

Lasko

Ceramic Pedestal Heater with Remote Control Instruction Manual

Used for Model:
CS27650







Register Your Product Today
You will benefit from:
• Efficient and enhanced support
• Future product updates

Have a Question? Need a Part?
Please Do Not Return Product to Store!
Chat with us at www.lasko.com Monday-Friday 8am - 5pm EST
(Valid in U.S. and Canada only)

READ AND SAVE THESE INSTRUCTIONS
Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage!
This heater is for residential use only. It is not intended to be used in commercial, industrial or agricultural settings.

New 05/24

1

CS27650ES

7.0 Illustrations

Illustration 4a - Safety Instructions for CS27650

**READ ALL INSTRUCTIONS BEFORE USING THIS HEATER.**

**WARNING**

IMPORTANT SAFETY INSTRUCTIONS
When using electrical appliances, these instructions and warnings should always be followed to reduce the risk of fire, electrical shock, injury to persons and hyperthermia:
TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR PERSONAL INJURY, ALWAYS FOLLOW THESE IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS:



Plug heaters directly into a 120v wall outlet/receptacle only. Never use with an extension cord. Do not plug heater into any other cord connected device, such as a power strip, surge protector, multiple outlet adapter, cord reel or outlet-type air freshener. The use of such devices may create a fire hazard. Do not plug multiple devices in the same outlet or on same circuit as heater.



Faulty wall outlet connections may cause the wall outlet to overheat. Be sure that heater plug fits tightly into outlet before each use. During use, check to make certain the heater plug is not overheating. If necessary have a qualified electrician check and/or replace the wall outlet. Do not use this heater with any solid state speed control devices.



Make certain that the power source conforms to the electrical requirements of the heater.



Extreme caution is necessary when any heater is used by or near children or invalids. The heater should not be left operating unattended. Never leave children unattended when the heater is on or plugged in.



This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not attempt to defeat this safety feature.



Do not use the heater in areas where gasoline, paint, or flammable liquids are used or stored. Do not use heater in locations where flammable or explosive chemicals are stored, or in wet atmospheres.



Do not operate any heater with a damaged cord or plug or after the heater malfunctions, or has been dropped or damaged in any manner. To disconnect heater, turn the heater off then remove the plug from the outlet.



Always unplug heater when not in use. Unplug power cord before servicing or moving the heater.



Do not insert or allow fingers or foreign objects to enter any ventilation or exhaust opening as it may cause an electric shock, fire, or damage the heater. Do not block or tamper with the heater in any manner while it is in operation.



Do not block air intakes or exhaust in any manner. Do not place on soft surfaces, like a bed, where openings may become blocked. Do not depend on the on/off switch as the sole means of disconnecting power when servicing or moving the heater. Always unplug the power cord.



Hyperthermia can result in death. Symptoms of hyperthermia include high body temperature, headache, nausea, vomiting, tiredness, dizziness, fainting, and rapid pulse. If you begin to experience symptoms related to hyperthermia, turn off the heater and seek medical attention.



To avoid excessive room temperatures which can cause hyperthermia: DO NOT leave product running unattended in a confined space around infants, or individuals with reduced physical, sensory, or mental capabilities.

**CAUTION**

- Always unplug heater when not in use. Unplug power cord before servicing or moving the heater.
- Do not insert or allow fingers or foreign objects to enter any ventilation or exhaust opening as it may cause an electric shock, fire, or damage the heater. Do not block or tamper with the heater in any manner while it is in operation.
- Do not block air intakes or exhaust in any manner. Do not place on soft surfaces, like a bed, where openings may become blocked. Do not depend on the on/off switch as the sole means of disconnecting power when servicing or moving the heater. Always unplug the power cord.
- Always place the heater on a stable, flat, level surface when operating, to avoid the chance of the heater overturning. Locate the power cord so the heater or other objects are not resting on it. Do not run power cord under carpeting. Do not cover power cord with throw rugs, runners, or similar coverings as this may cause cord to overheat. Arrange power cord away from room traffic and where it will not be tripped over.
- This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Always use handle when moving this heater. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes and curtains at least 3 feet (0.9 M) from the front of the heater and keep them at least 1 foot (0.3 M) from the sides and rear.
- This heater is not intended for use in wet or damp locations. This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate a heater where it may fall into a bathtub or other water container.
- Do not use heater outdoors.
- This heater is not suitable for use in agricultural facilities including areas where livestock, poultry or other animals are confined. Please refer to national electric code (nec) article 547-7 (2008), or applicable state or local codes or standards relating to electrical requirements for agricultural buildings. This heater does not meet the requirements of nec article 547-7 (2008).
- This heater is not suitable for use in hazardous locations. Please refer to national electric code (nec) article 500 or applicable state or local codes or standards relating to electrical requirements for hazardous locations. This heater does not meet the requirements of nec article 500 (2008).
- Remote controls for other appliances or electronic equipment can sometimes interfere with the operation of this heater. If this occurs, move the heater to another location.
- Keep heater remote control unit away from chairs and your bed where it may be sat or laid upon and inadvertently turn on the heater.

SAVE THESE INSTRUCTIONS

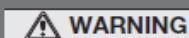
REMOTE CONTROL:

- Install two "AAA" batteries (not included).
- Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
- Do not dispose of batteries in fire. Batteries may explode or leak.
- Always purchase the correct size and grade of battery most suitable for the intended use.

- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed correctly with regards to polarity (+ and -).
- Remove batteries from equipment that is not to be used for an extended period of time.
- Remove used batteries promptly.

7.0 Illustrations

Illustration 4b - Safety Instructions for CS27650



WARNING

TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR PERSONAL INJURY, ALWAYS FOLLOW THESE IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS:

MAINTENANCE

- Always unplug the cord before moving, servicing or cleaning.
- Never place the heater in or near water.
- Clean the heater only with a vacuum equipped with a brush attachment; the vacuum will remove the lint and dirt from inside the heater.
- Vacuum intake grills every two weeks; this will help to maintain the optimum heater performance.
- Never attempt to take apart the heater.
- Clean the body of the heater with a soft cloth only.
- Never use alcohol or solvents such as gasoline, benzene, paint thinner, or other harsh cleaners.

TROUBLESHOOTING TIPS

If your heater fails to operate, see below for a list of probable causes and solutions:

- Be sure the power cord is plugged into a working electrical outlet.
- Check your temperature setting. The heater may be off because it has reached the desired temperature setting.
- If your heater runs for several minutes and shuts off repeatedly, your heater may require cleaning. See maintenance section above.

STORAGE: Store the heater with these instructions, in the original carton in a cool, dry place.

LUBRICATION: Motor is permanently lubricated. No maintenance is required.

DISPOSITION: Corrugated packaging materials are recyclable. For environmentally responsible disposal of this product, contact your local waste service provider or visit www.1800recycling.com

SAFETY FEATURE

- A thermal overload protector is built in to prevent overheating.
- If an overheat temperature is reached, the heater will automatically shut off. It can only resume operation when the user resets the unit.

To Reset Heater:

- Unplug the heater and wait 10 minutes for the heater to cool down.
- After the heater has cooled down, plug the unit into a 120V~ electrical outlet and follow the operation instructions described in this manual.

*AUTOMATIC TEMPERATURE CONTROL

The automatic temperature function operates in all heat modes. It does not operate in fan modes.

1. To set the room at a specific temperature press the Plus Temperature Control button or the Minus Temperature Control button to the desired temperature. The display will now reflect the set temperature and the temperature will be flashing. The heater is now in Auto Temperature Mode.
2. When you reach the desired temperature, the set temperature will flash several times and then the display will return to indicate the current room temperature and will gradually change as the room temperature changes. NOTE: the temperature display does not indicate the temperature of the heated air being emitted by the heater.
3. Once the room temperature reaches 2 degrees above the set temperature, the heater will shut off. Once the room temperature reaches 1 degree below the set temperature, the heater will turn back on and continue to cycle off and on to maintain the set temperature.
4. This function will cancel if the Heat Mode button is pressed. The heater will now be in high or low depending on the selection and run continuously.

NOTE: It is normal for the heater "fan" to run for approximately 15 seconds when the heater shuts off after reaching the set temperature. Press the plus button and minus button at the same time to change the display to ° Celsius. Press the same two buttons together again to change the display back to ° Fahrenheit.

LASKO PRODUCTS, LLC LIMITED WARRANTY (VALID IN U.S. AND CANADA ONLY)

What this warranty covers: This product is warranted against defects in workmanship and/or materials.

How long this warranty lasts: This warranty extends only to the original purchaser of the product and lasts for three (3) years from the date of original purchase or until the original purchaser of the product sells or transfers the product, whichever first occurs.

What Lasko will do: During the warranty period, Lasko will, at its sole option, repair or replace any part or parts that prove to be defective or replace the whole product with the same or comparable model. For all warranty claims, the product must be returned to Lasko Products, LLC at customer's expense with proof of purchase within the warranty period. Contact the Lasko customer service department to obtain a Return Authorization ("RA") Do not return products without an RA or the warranty claim will not be processed.

What this warranty does not cover: This warranty does not apply if the product was damaged or failed because of accident, improper handling or operation, shipping damage, abuse, misuse, or unauthorized repairs made or attempted. This warranty does not cover shipping costs for the return of products to Lasko for repair or replacement. Lasko will pay return shipping charges from Lasko following warranty repairs or replacement.

Any and all warranties, expressed or implied (including, without limitation, any implied warranty of merchantability), last three years from the date of original purchase or until the original purchaser of the product sells or transfers the product, whichever first occurs and in no event shall Lasko's liability under any express or implied warranty include (i) incidental or consequential damages from any cause whatsoever, or (ii) replacement or repair of any house fuses, circuit breakers or receptacles. Notwithstanding anything to the contrary, in no event shall Lasko's liability under any express or implied warranty exceed the purchase price of the product and any such liability shall terminate upon the expiration of the warranty period.

Some states and provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so these exclusions or limitations may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state and province to province.

Proof of purchase is required before a warranty claim will be accepted.

CUSTOMER SERVICE:

Email: producthelp@lasko.com. Web: www.lasko.com

Our Customer Service team is available to assist you with product service questions and replacement parts. Chat with us at www.lasko.com Monday-Friday 8am - 9pm EST (Valid in U.S. and Canada only). Please have your model number available, as well as the type and style (located on the underside of your product).

Customer Service Dept.,
820 Lincoln Ave., West Chester, PA 19380 (Please do not send product to this location)

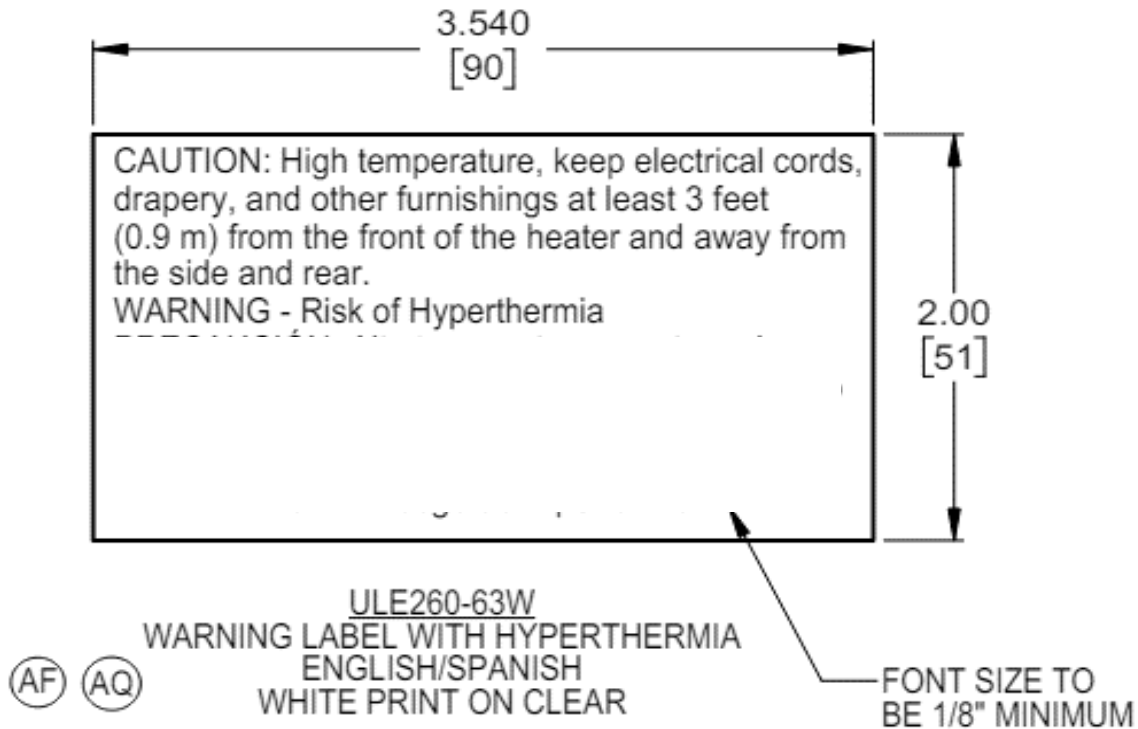
7.0 Illustrations

Illustration 5 - Cautionary Markings

"CAUTION - High temperature, keep electrical cords, drapery, and other furnishings at least 3 feet (0.9 m) from the front of the heater and away from the side and rear. WARNING - Risk of Hyperthermia.

Letter height: Marking letters shall be minimum 3.2mm in height.

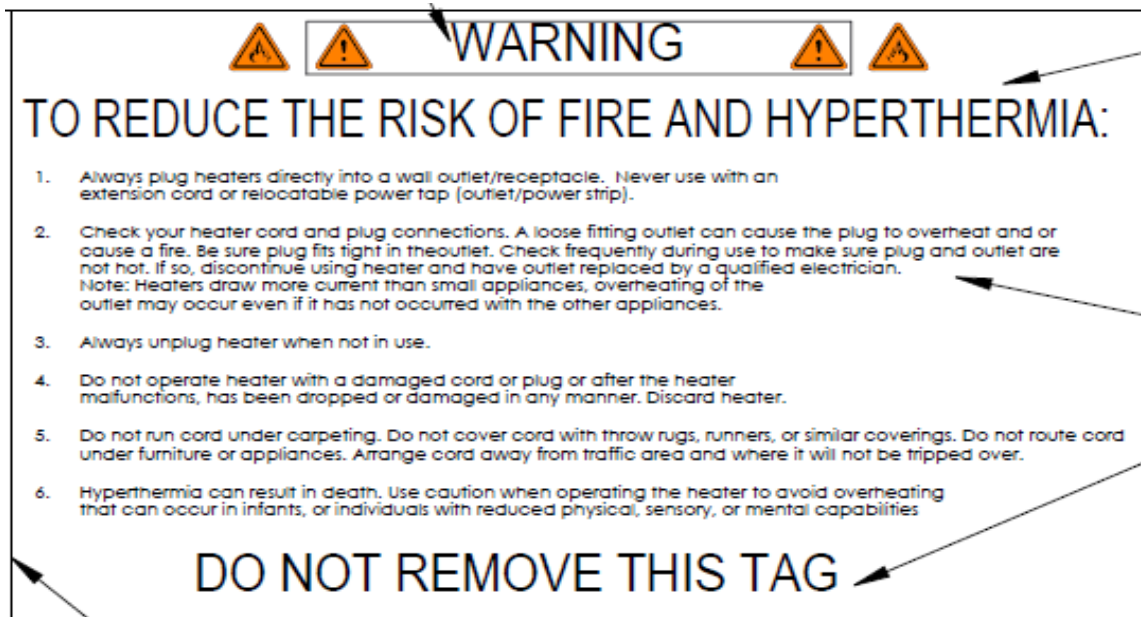
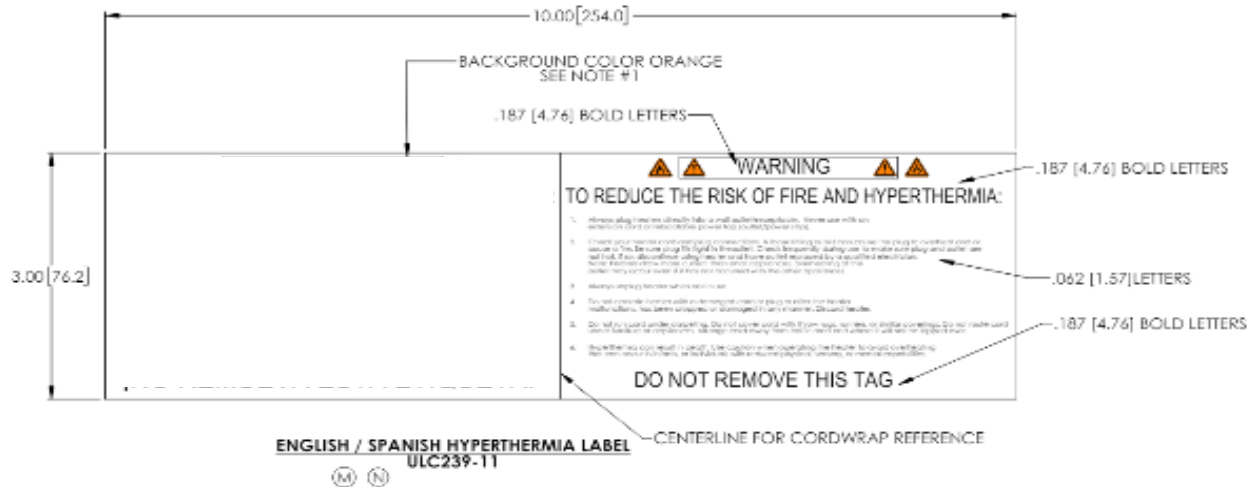
Location: Warning label shall be visible on the front of the heater.



7.0 Illustrations

Illustration 5a - Cord Tag Marking

The warning tag shall be permanently affixed to the power-supply cord, no more than 6 inches (152 mm) from the attachment plug and shall be made of substantial material (cardboard, cloth, plastic, or the equivalent) to provide mechanical strength and to prevent easy removal.



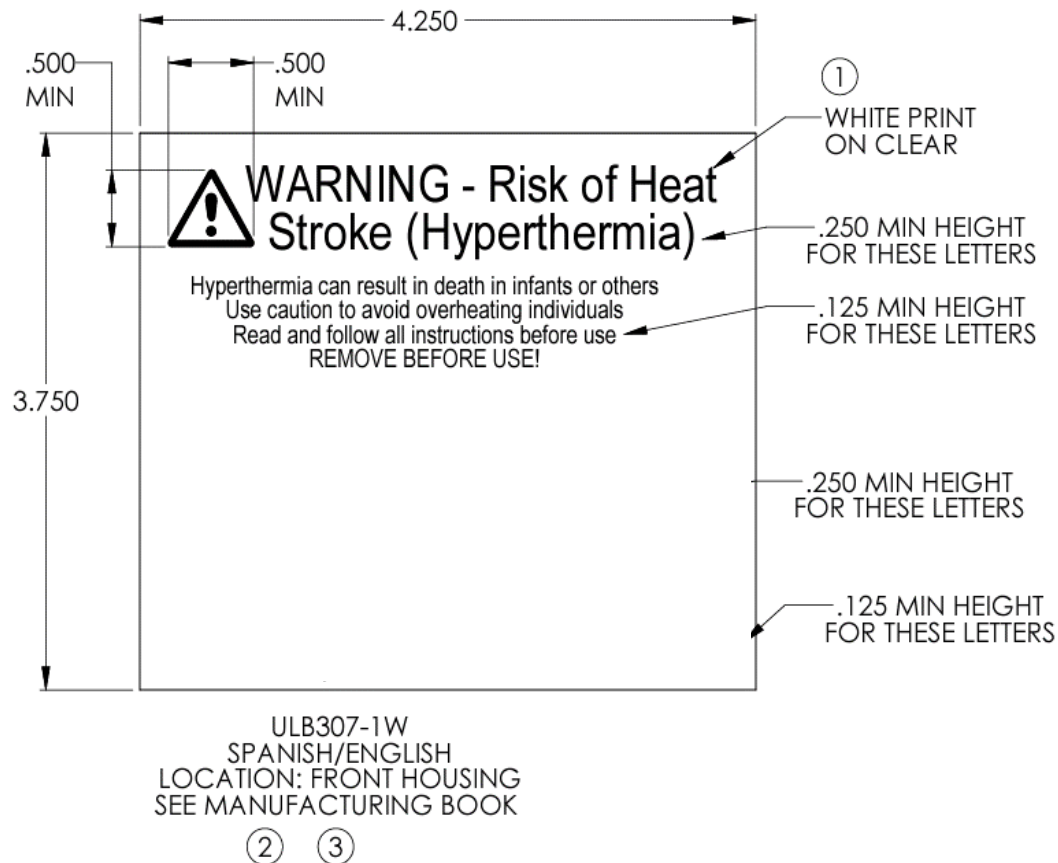
7.0 Illustrations

Illustration 5b - Carton Markings



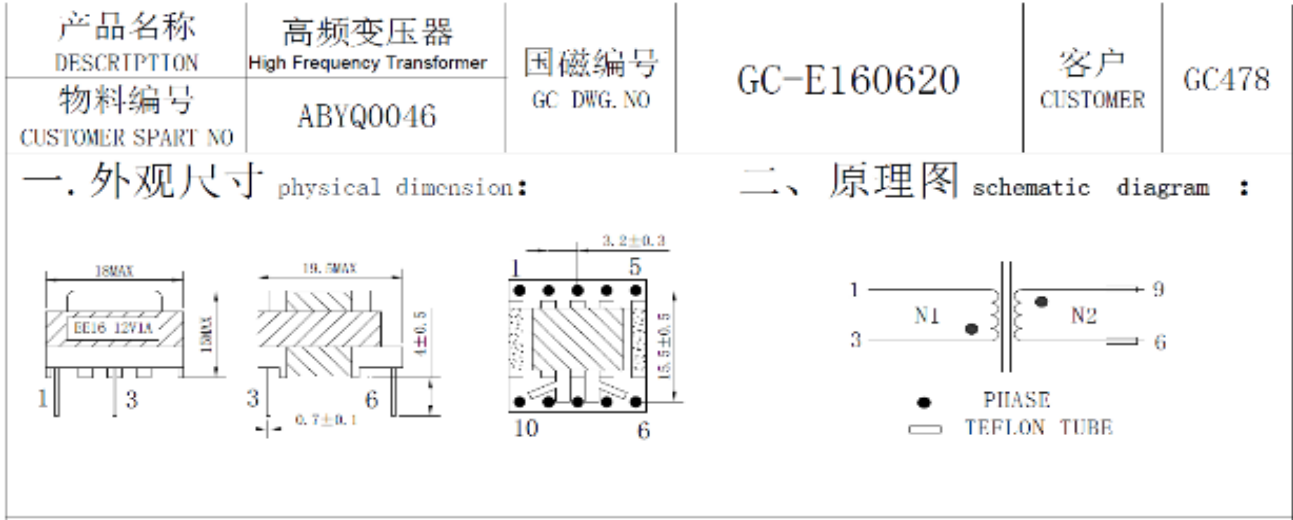
7.0 Illustrations

Illustration 5c - Removable Warning Label



7.0 Illustrations

Illustration 6 - Transformer EE16-12V1A



8.0 Test Summary					
Evaluation Period	22-May-2024 to 11-June-2024		Project No.	G105832010	
Sample Rec. Date	22-May-2024	Condition	Prototype	Sample ID.	1,2,3
Test Location	Lasko Products LLC, 820 Lincoln Ave, West Chester, PA 19380 USA				
Test Procedure	Test Data Acceptance - Level 3				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					
Test Description	UL 1278 Clause	UL 746C Clause			
Impact Polymeric Material Test	12.2	56			
Push Back Strain Relief Test	16.13	29, 61.2			
Power Inputs	38, SC6	-			
Leakage Current	39	-			
Normal Temperature	40, SC7	-			
Overvoltage Test	42.2	-			
Stalled-Fan Test	42.3	-			
Tip-Over Test	42.4	-			
Vertical-Wall Test	42.5	-			
Terry-Cloth Drape Test	42.6	-			
Terry-Cloth Band Drape Test	42.7	-			
Component Failure Test	47	-			
Dielectric Voltage-Withstand	48	-			
Insulation Resistance	49	-			
Stability of Movable Heaters	51	-			
Element Support Impact Tests	52	-			
Strain Relief	59	29, 61.2			
Low Ambient Temperature Starting Test	SC8				
Restricted Abnormal Operation Test	SC9	-			
Resistance to Impact Test	-	56			
Mold Stress-Relief Distortion	-	61			

8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Angel Valencia	Reviewed by:	Russell Ransom
Title:	Project Engineer	Title:	Reviewer
Signature:	<i>Angel Valencia</i>	Signature:	<i>Russell Ransom</i>

9.0 Correlation Page For Multiple Listings	
The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.	
BASIC LISTEE	Lasko Products LLC
Address	820 Lincoln Ave West Chester, PA 19380
Country	USA
Product	Movable Air Heater
MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS
MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS
MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:
Intertek Testing Services NA Inc.
ETL Component Evaluation Center
1717 Arlingate Ln.
Columbus, Ohio 43228 USA
Attn: CEC Safety

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test
Tip Over Test (All Units)

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:

- 1 - a voltmeter in the primary circuit;
- 2 - a selector switch marked to indicate the test potential; or
- 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
All products covered by this Report.	1000V	60 s
	or	
	1200V	1 s

11.2 Tip Over Test (All Units)

<u>Method</u>

One hundred percent of production of the products covered by this Report shall be subjected to the test. The manufacturer shall test each heater that employs a tip-over switch to determine that the switch functions as intended after assembly in the heater. The heater shall be energized during this test.
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Products Requiring Tip Over Test:
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Product

All products covered by this report.

12.0 Revision Summary

The following changes are in compliance with the declaration of Section 8.1:

[illegible]