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FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

HOUSEHOLD COOKING APPLIANCES
(KNUR, KNUR7)

Manufacturer: CHINA HANGYU GROUP CO LTD
(137107-001) 16 BEIHU RD
ECONOMIC DEVELOPMENT ZONE
YONGKANG,
ZHEJIANG 321300 CHINA

Applicant: SAME AS MANUFACTURER
(137107-001)

Listee: SAME AS MANUFACTURER
(137107-001)

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File E314061
Project 07CA31319

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REPORT

On

COOKING APPLIANCES HOUSEHOLD

China Hangyu Holding Group Co., Ltd
Zhejiang, China

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Electric Coffee Maker, Model HGB-4

ELECTRICAL RATINGS:

120 V, 60 Hz, 750 W.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

The product is an electric coffee maker with grinding and drip type coffee maker functions, intended for household use only. Each unit consists of a grinding motor, a heater, an electronic control circuit, a regulating thermostat and two thermal cutoffs, all enclosed in a thermoplastic housing. Provided with a permanently attached power supply cord terminating in a grounding type attachment plug.

USL indicates that the coffee machine has been evaluated and found to be in compliance with the applicable requirements of Standard for Household Electric Coffee Makers and Brewing-Type Appliances, UL 1082, Fifth Edition, with revision through and including dated January 30, 2006.

CNL indicates that the coffee machine has been evaluated and found to be in compliance with the applicable requirements of Canadian Standard for Household Cooking and Liquid-Heating Appliances, C22.2 No. 64-M91, Sixth Edition.

CONSTRUCTION DETAILS:

The following construction items are described in Section General.

Abbreviations	Corrosion Protection
Sharp Edges	Internal Wiring
Wire Positioning Devices	Spacings
Tubing and Sleeving	Wire Connections
Grounding	Components Mounting
Printed Wiring Board	Instruction Manual
Important Safeguard	Polarization Instructions
Short Cord Requirements	Markings
Carton Markings	

Mechanical Assembly - Unless otherwise stated, all enclosure parts and component mounting assemblies are secured by welding or thread-forming screws, or machine bolts provided with nut and lock washers.

Quick-Connector Terminal - Unless specified otherwise, all quick-connector terminals shall be R/C (RFWV2), suitable for the number of conductors, size, and material of conductor involved.

Instruction Manual - An instruction manual shall be packaged with each appliance, which includes the important safety instructions. See Sec. Gen. and ILL. 1 for details. Instructions inside the manual indicate that the appliance is intended for household use only.

Markings - In addition to Sec. Gen., the following marking should be provided on the appliance in a readily visible location with a minimum letter height of 2.4 mm:

"HOUSEHOLD USE ONLY";

"CAUTION: DO NOT IMMERSE IN WATER" and "NE PAS IMMERGER".

Marking Methods - All required markings should be etched, molded, die stamped, paint stenciled, or provided on a R/C (PGDQ2), CN, suitable for application to the mounting surface involved, and rated minimum 40°C. If R/C (PGDQ2), CN, marking label was used, the label located on Bottom Cover.

ELECTRIC COFFEE MAKER, MODEL HGB-4 - FIGS. 1 AND 2

General - Figs. 1 and 2 illustrate the front views of Electric Coffee Maker, Model HGB-4.

1. Control Panel - R/C (QMFZ2/8), CHI MEI CORPORATION (E56070), Type PA-765, rated V-0, 80°C. Measured overall 150.5 by 50.5 by 358 mm high, 2 mm thick. Provided with a recess area for a stainless decorative control plate, which measured 94 by 66 by 0.4 mm thick, secured to Control Panel by fourteen bent tabs. Provided with three 17.8 mm diameter openings for Control Buttons.
2. Control Buttons - Three provided. R/C (QMFZ2), rated min. HB, 60°C. Not served as electrical enclosure. Each consists of three parts. Secured on Control Panel by screws and prevented from turning by one integral tab.
3. Main Enclosure - R/C (QMFZ2/8), CHI MEI CORPORATION (E56070), Type PA-765, rated V-0, 80°C. Measured overall 248 by 163 by 327 mm high, 2 mm thick. Provided with following features:
 - An overall 86 by 41 by 151 mm deep integral water tank, also provided with a 10 mm diameter overflow hole at 15 mm from top of water tank.
 - An overall 96 mm deep by 221 high half-cylinder recess area for location of Coffee Filter and Coffee Cup, also provided with four 5 mm diameter opening on the recess area for Detector, and a 0.37 mm thick stainless liner was secured on the recess area by integral tabs and sandwiching between Control Panel and Main Enclosure.
 - A 123 by 117 by 207 mm chamber for location of Top Enclosure and Grinding Motor, also provided with two 30 mm diameter ventilation openings at sides of the integral chamber.
 - A 58 mm diameter by 20 mm deep drip head with nine 7.6 mm OD by 3.2 mm ID by 32 mm high branch drip duct.
 - An integral vapor chamber above drip head area.
 - A 19 by 13 mm opening for Main Switch.
4. Coffee Filter - Stainless steel. Removable. Measured overall 81 mm diameter by 61 mm high, 0.5 mm thick. Provided with a 50 mm diameter opening at bottom. Tightly secured with a stainless steel filter. Located in Coffee Filter Holder.
5. Coffee Filter Holder - Stainless steel. Removable. Measured overall 95 by 111 by 76 mm high, 0.65 mm thick. Provided with a 26.5 mm diameter opening for drip tap assembly, which actuated by coffee cup cover when it positioned. Secured with a thermoplastic bracket by tabs for holding. Secured to Coffee Filter Holder Bracket by physical fit.
6. Coffee Filter Holder Bracket - Stainless steel. Measured overall 106 by 106 by 18 mm, 0.8 mm thick. Secured to Main Enclosure by screws.

7. Coffee Cup - Stainless steel. Measured overall 89 mm diameter by 121 mm high. Maximum capacity 500 ml. Provided with a liner at bottom to prevent from sliding. Welded with two 10 by 6 by 12.5 mm high, 0.6 mm thick tabs for securing with Cup Handle.
8. Cup Handle - Thermoplastic. Measured overall 77 by 42 by 17 mm wide. Secured to Coffee Cup by two tabs welded on Coffee Cup.
9. Cup Cover - Thermoplastic. Measured overall 80 by 85 by 13 mm high, 2 mm thick. Provided with inclined plane and holes for coffee drip.
10. Drip Head Cover - Not shown. R/C (QMFZ2), NAN YA PLASTICS (HUI ZHOU) CORP LTD (E235269), Type 3307, rated V-0, 110°C. Measured overall 63 by 55 by 6.5 mm high, 1.5 mm thick. Secured to integral drip head of Main Enclosure by screws.
11. Drip Vapor Cover - Not shown. R/C (QMFZ2), NAN YA PLASTICS (HUI ZHOU) CORP LTD (E235269), Type 3307, rated V-0, 110°C. Measured overall 96 by 71 by 25 mm, 1.5 mm thick. Provided with an 11.5 mm OD by 8 mm ID by 14 mm long integral duct for securement of Vapor Tube. Secured to vapour chamber of Main Enclosure by screws.

ELECTRIC COFFEE MAKER, MODEL HGB-4 - FIGS. 3 THRU 5

General - Fig. 3 illustrates the back view, and Figs. 4 and 5 illustrate the side views of Electric Coffee Maker, Model HGB-4.

1. Main Switch - R/C (NRNT2/8), YUEQING LUSTER ELECTRONICS CO LTD (E228788), rated 125 V, 10 A, 75°C. Secured to Main Enclosure by integral tabs.
2. Side Enclosures - Two provided. R/C (QMFZ2/8), CHI MEI CORPORATION (E56070), Type PA-765, rated V-0, 80°C. Each measured overall 224 by 40 by 336 mm high, 1.9 mm thick. Provided with an overall 80 mm diameter by 27 mm deep recess area as platform for securing to Main Body and for securement of Ventilation Covers, and provided a 40 mm diameter opening in center of recess area. Each provided with two 20 by 12 by 10 mm deep recess area for Feet. Provided with a 20 mm diameter opening on right one for passage of coffee fine/coarse adjustable shaft. Provided with a 35 mm by 6.4 mm deep recess area with a 10 mm diameter opening in center on left one for Grind Time Knob. Each secured to Bottom Cover and Main Enclosure by screws and tabs.
3. Ventilation Covers - Two provided. R/C (QMFZ2/8), CHI MEI CORPORATION (E56070), Type PA-765, rated V-0, 80°C. Each measured overall 78 mm diameter by 22 mm high, 2 mm thick. Provided with fifteen 2.4 mm wide louver ventilation openings, ranged from 29 to 73 mm long. Secured to Side Enclosures by physical fit and integral tabs.
4. Coffee Fine/Coarse Regulating Shaft - Painted steel. Measured 7 mm diameter by 132 mm long. Secured with a thermoplastic worm wheel to mesh with gear wheel of Upper grinder support of Coffee Grinder Assembly. Secured to Lower grinder support of Coffee Grinder Assembly by two thermoplastic clamps and screws.
5. Coffee Fine/Coarse Regulating Knob - Not shown. Thermoplastic. Fitted to Coffee Fine/Coarse Regulating Shaft by physical fit.
6. Grind Time Knob - Thermoplastic. Not served as electric enclosure. Secured on shaft of Potentiometer by one screw.
7. Power Supply Cord - Listed, CN, Type SVT, 3-conductor, rated No. 18 AWG, minimum 300 V, 105°C. Power Cord extends min. 0.6 m, max 2.1 m long from cord exit to the plug face. One end is terminated in molded-on grounding attachment plug. The other end connected to internal wiring by wire connector, Listed, CN, rated min. 105°C, 600 V.

ELECTRIC COFFEE MAKER, MODEL HGB-4 - FIGS. 6 THRU 8

General - Fig. 6 illustrates the top view, Fig. 7 illustrates the top view with Coffee Beans Chute Cover open, and Fig. 8 illustrates the bottom view of Electric Coffee Maker, Model HGB-4.

1. Top Enclosure - R/C (QMFZ2/8), CHI MEI CORPORATION (E56070), Type PA-765, rated V-0, 80°C. Measured overall 203 by 149 by 66 mm high, 1.8 mm thick. Provided with a 2.4 mm opening for actuating Grinding Area Interlock Switch. Provided with four 2.7 mm diameter by 3 mm high integral post, two for hinging with Coffee Beans Chute Cover, another two for hinging with Water Tank Cover. Secured to Main Enclosure by integral tabs and screws.
2. Grinding Area Interlock Switch - Not shown. R/C (WOYR2/8), YUEQING DONG NAN ELECTRONIC CO LTD (E176213), Type KW10, rated 125 V, 3 A, 85°C. Secured between Switch Bracket and Top Enclosure by two integral posts of Interlock Switch Bracket.
3. Interlock Switch Bracket - Not shown. R/C (QMFZ2/8), rated min. HB, 85°C. Measured overall 13 by 31.5 by 8 mm wide, 1.5 mm thick. Provided with an overall 4 mm diameter by 8 mm long with an integral 2 mm diameter by 6.5 mm long switch actuator for actuating the Grinding Area Interlock Switch when Coffee Beans Chute Cover positioned, the integral post was recessed in Top Enclosure for 1 mm preventing from unintentional actuating Grinding Area Interlock Switch. Secured to Top Enclosure by screws.
4. Coffee Beans Chute Cover - R/C (QMFZ2/8), CHI MEI CORPORATION (E56070), Type PA-765, rated V-0, 80°C. Measured overall 118 by 103 by 10 mm, 1.8 mm thick. Provided with one 1.8 mm diameter by 1.5 mm long integral post for actuating Grinding Area Interlock Switch. Hinged to Top Enclosure.
5. Water Tank Cover - Thermoplastic. Measured 85 by 47 by 8 mm high. Hinged to Top Enclosure.
6. Bottom Cover - R/C (QMFZ2/8), CHI MEI CORPORATION (E56070), Type PA-765, rated V-0, 80°C. Measured overall 215 by 250 by 24 mm high, 2.5 mm thick. Provided with four 27 by 5.2 mm and four 15 by 4.8 mm louver ventilation openings. Provided with an 8 mm diameter opening for passage of Power Supply Cord. Provided with two 6 by 6 by 9.8 mm high screw posts and two 1.2 mm thick ribs with 2.1 by 7.5 mm cutout for passage of Power Supply Cord.
7. Rubber Feet - Four provided. Removable. Each measured 13 by 21 by 17 mm high. Fitted in recess area of Side Enclosures.

ELECTRIC COFFEE MAKER, MODEL HGB-4 - FIGS. 9 AND 10

General - Figs. 9 and 10 illustrate the interior views with Side Enclosures removed, of Electric Coffee Maker, Model HGB-4.

1. Heater - Sheath type. Rated 120 V, 750 W. Measured overall 90 by 89 by 23 mm high. Heating element is constructed of resistance wire embedded in magnesium oxide filler, encased in 0.6 mm thick by 6.6 mm OD copper-clad steel sheath, and then encased in aluminium sheath. Terminated in steel cold pins, each 2 mm diameter, extended 26 mm long from silicone rubber end seal. Each cold pin is welded with a 13.6 by 6 by 0.8 mm thick stainless steel tab for crimp-connection with Internal Wiring. Each end of heating element is provided with a silicone rubber end seal, wrapped over the cold pins for humidity protection. Provided with integral water pipe above heating element, measures 9.6 mm OD, 6.7 mm ID. Provided with a 4 by 3.2 mm deep channel between heater sheath and integral water pipe for securement of Thermal Cutoff. Secured to Heater Support by an overall 12 by 3.5 by 86 mm long, 0.8 mm thick galvanized steel clamp, which secured to Heater Support by two screws. See ILL. 4 for dimension drawing of Heater.
2. Heater Support - R/C (QMFZ2), SHANGHAI EUROPEAN-ASIAN SYNTHETIC MATERIAL CO LTD (E176036), Type EA-5555J, rated min. V-0, 150°C. Measured overall 97.5 by 90 by 34 mm, 2.8 mm thick. Secured with three overall 18 by 1.6 by 7 mm high, 1 mm thick steel plate served as spacer from Heater. Secured to Main Enclosure by a washer and a screw, and secured to Bottom Cover by two screws.
3. Thermostat - R/C (XAPX2/8), THERM-O-DISC INC, SUB OF EMERSON ELECTRIC CO (E19279), Type 36TMH01, rated 120 V, 15 A, calibrated operating temperature 140°C, maximum normal temperature (Tmax) - 220°C, maximum dry operation temperature (Tdry) - 260°C. Secured to Heater by Thermostat Mounting Bracket.
4. Thermostat Bracket - Tempered steel. Measured overall 23 by 21 by 35 mm, 0.4 mm thick. Provided with an integral 6 mm wide bent tab for securement of Thermostat. Tightly secured to integral channel of Heater.
5. Water Tubes - Three segments provided. R/C (QMFZ2), DONG JUE FINE CHEMICALS (NANJING) CO LTD (E236040), Type NE-Z160, rated 150°C. One is 12.4 mm OD by 8.4 mm ID by 69 mm long, connected between water tank of Main Enclosure and integral pipe of Heater, provided with minimum 12 mm long overlapping area and a steel clamp at each end. One is 11 mm OD by 6 mm ID by 428 mm long, secured between integral pipe of Heater and drip head of Main Enclosure, provided with minimum 12 mm long overlapping area and secured by an 8 mm wide by 0.6 mm thick steel hoop and screw at each end. Another is 12 mm OD by 8 mm ID by 200 mm long, secured between vapour chamber of Main Enclosure and water tank of Main Enclosure, provided with minimum 12 mm long overlapping area at each end.

6. Potentiometer - Rated 10K 2W. Secured to by one washer and one screw and prevent from turning by integral tabs. Served for adjusting grinding time.
7. Thermal Cutoffs - Two provided, located at the ungrounded conductor. Each, R/C (XCMQ2/8), THERM-O-DISC INC, SUB OF EMERSON ELECTRIC CO (E40667), Type G4AXX240C, CH rated, rated 120 V, 15 A, functioning temperature 240°C. The leads of each unit are crimp-connected to Internal Wiring, totally encased in sleeving, R/C (UZFT2/8), rated 300 V, 200°C. Secured to integral channel of Heater by three steel clamps, each measured 22 by 12 by 8 mm wide, 0.5 mm thick.
8. Capacitor (C) - R/C (CZDS2/8), rated 250 V, 12 uF. Secured to Main Enclosure by one screw and two ribs of Main Enclosure.
9. Detectors - Two pairs provided. Each secured mechanically prior soldering to PWB, R/C (ZPMV2), rated min. V-0, 130°C, suitable for direct support of live parts, measured 20.5 by 15 by 1.6 mm thick. For detecting if Coffee Filter and Coffee Cup located in place separately. Each secured to Main Enclosure by screws.
10. Main PWB - R/C (ZPMV2), rated min. V-0, 130°C, suitable for direct support of live parts. Measured 133 by 53 by 1.6 mm thick. Secured to Main Enclosure by screws. See ILL. 3 for PWB circuit traces and component layout for detailed circuit components except following:

Relays - Two provided. R/C (NRNT2/8), NINGBO SONGLE RELAY CO LTD (E167996), Type SRD-12VDC-SL-C, rated 10 A, 125 V. Class A insulation system.

Fuse - Listed (JDYX), CNL, rated 125 V, 10 A.

Transformer - R/C (XOKV2/8), DONGGUAN YINLI ELECTRONICS CO LTD (E226968), Type YL-35-150200B, rated input 120 V, 60 Hz, output 15 V, 200 mA, Class A insulation system. Secured to Bottom Cover by screws.
11. Transformer Leads - R/C (AVLV2/8), rated min. 22 AWG, 300 V, 90°C.
12. Cable Ties - R/C (ZODZ2), rated min. 85°C.
13. Internal Wiring - R/C (AVLV2/8). For primary circuit, rated min. 18 AWG, 300 V, 200°C for Heater connection and min. 16 AWG, 300 V, 105°C for others. For secondary circuit, rated min. 26 AWG, 300 V, 90°C.
14. Cord Clamp - R/C (QMPZ2), UBE INDUSTRIES LTD (E48133), Type 1013B, rated V-2, 65°C. Measured overall 27 by 4 by 11 mm wide, 1.5 mm thick. Provided with 7.5 by 1.5 mm cutout for passage of Power Supply Cord. Secured to Bottom Cover by screws.
15. Strain Relief Means - Combined by integral posts and ribs of Bottom Cover, and Cord Clamp, and the 8 mm diameter opening on Bottom Cover.

ELECTRIC COFFEE MAKER, MODEL HGB-4 - FIG. 11

General - Fig. 11 illustrates the Coffee Grinder Assembly and Grinding Motor of Electric Coffee Maker, Model HGB-4.

1. Coffee Grinder Assembly - Consists of following parts:
 - a. Upper grinder support - Cast aluminium. Measured overall 65 mm diameter by 28 mm high. Provided with gear wheel on top rim for adjusting coffee fine/coarse. Secured to Lower grinder support by integral thread.
 - b. Upper grinder/Lower grinder - Galvanized steel. Each measured overall 45 mm diameter by 7.3 mm high. Secured to Upper grinder support and Lower grinder support by screws separately.
 - c. Lower grinder support - Cast aluminium. Measured overall 101 by 93 by 61 mm high. Provided with an integral channel for exit of grinded coffee powder. Provided with two integral arm for securing with Coffee Fine/Coarse Regulating Shaft. Secured to Main Enclosure by four screws, and four 15 mm diameter by 20 mm high rubber pad was secured between Lower grinder support and Main Enclosure.
2. Grinding Motor - R/C (XEW2/8), CHINA HANGYU GROUP CO LTD (E309806), Type YY-50-1. Secured to Lower grinder support of Coffee Grinder Assembly by screws.
3. Bonding Conductors - Two provided. Green with or without one or more yellow strips. One is R/C (AVLV2/8), rated 300 V, 200°C, connected to Power Supply Cord and Heater. Another is R/C (AVLV2/8), rated 300 V, 105°C, wrapped with R/C (UZFT2/8), 300 V, 200°C sleeving, connected to Power Supply Cord and dead metal of Grinding Motor.

TEST RECORD NO. 1

SAMPLES:

Representative production samples of Electric Coffee Maker, Model HGB-4 were submitted by the manufacturer.

GENERAL:

Test results relate only to the items tested.

The test methods and results of the below tests have been reviewed and found in accordance with the requirements in Household Electric Coffee Makers and Brewing-Type Appliances, UL 1082, Fifth Edition, with revision pages dated January 30, 2006; and the Canadian Standard for Household Cooking and Liquid-Heating Appliances, CAN/CSA-C22.2 No.64-M91, sixth edition.

The following tests conducted in accordance with UL 1082 were considered representative of the tests required by Canadian National Standard, CAN/CSA C22.2 No. 64-M91.

UL Standard Tests	UL Standards Clause	Canadian Standard Tests	Canadian Standard Clause
Power Input	30	Rating	6.2.1
Leakage Current	31	-	6.8
Operational Test	32	-	-
Normal Temp. - DTCM	SA14	Temperature (Normal)	6.3
Normal Temp. - Coffee Grinder	36 of UL982	Temperature (Normal)	6.3
Dielectric Voltage Withstand	35	Dielectric Strength	6.5
Leakage Current as a Result of Moisture	SA15	-	-
Strain Relief	37	-	4.6.4
Oven Conditioning	UL746C, Clause 61	-	-
Strain Relief after Oven Conditioning	UL746C, Clause 31	-	-
Push Back Relief	37A	-	-
Impact (Polymeric)	UL746C, Clause 22	Physical Abuse	6.13
Metal Enclosure Impact	38	Physical Abuse	6.13

UL Standard Tests	UL Standards Clause	Canadian Standard Tests	Canadian Standard Clause
Stability Test	SA16.3	-	6.15
DRY OPERATION	SA19.3	Temperature (Abnormal)	-
Overfill - DCM (SA19.4)	SA19.4	-	-
Overvoltage	SA19.4.2	-	-
Operation Degradation	SA12	-	-
Operation Degradation - Overfill	SA12.3	-	-
Fusible Devices	SA19.4.3	Fusible Links	6.11
Automatic Controls(50 cycles Overload)	45.1	Overload	6.10.3
Hydrostatic Pressure (Water connections)	SA6	-	-
Component Failure	44 of UL 1082	-	19.11.2-19.13 of C22.2 No. 1335.1
Starting Current Test	34 of UL982	STARTING OF MOTOR-OPERATED APPLIANCES	9 of C22.2 No. 1335.1
Temperature Test, 127 V Operation	36.1 of UL982	Heating (Normal Temperature)	11 of C22.2 No. 1335.1
Abnormal Operation Test (For Polymeric Enclosure)	58.11 of UL982	Lock Rotor Test	19.7.2 of C22.2 No. 1335.1
OVEN TEST FOR POLYMERIC COIL FORMS AND POLYMERIC INSULATING MATERIALS:	60.2 of UL982	-	-
RUNNING BURNOUT TEST FOR POLYMERIC COIL FORMS AND POLYMERIC INSULATING MATERIALS:	60.4 of UL982	-	-
RESISTANCE TO GROUNDING TEST:	29.2 of UL1082	-	-
GASKETS AND SEALS - (SEAL AGING AND LEAKAGE CURRENT TEST)	43.2.6	-	-
OVERVOLTAGE TEST:	24.2 of UL982	-	19.10 of C22.2 No. 1335.1

The following additional tests were conducted in accordance with Canadian National Standard, CAN/CSA C22.2 No. 64-M91:

- Cord Flexing, Clause 6.6
- C-UL Grounding Impedance, Clause 4.21

Test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standards mentioned above.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the Standard for Household Electric Coffee Makers and Brewing-Type Appliances, UL 1082, Fifth Edition, dated November 22, 1996, with revision pages dated January 30, 2006; and the Canadian Standard for Household Cooking and Liquid-Heating Appliances, CAN/CSA-C22.2 No.64-M91, sixth edition, Last Revised date February 2003 and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

CONCLUSION

Samples of the products covered by this Report have been found to comply with the requirements covering the category and the products are judged to be eligible for Listing and Follow-Up Service. The manufacturer is authorized to use the UL Mark on such products which comply with the Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the UL Mark are considered as Listed by Underwriters Laboratories Inc. Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

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