

1.0 Reference and Address			
Report Number	190100763SHA-001	Original Issued: 25-Feb-2019	Revised: None
Standard(s)	Standard For Safety For Electric Clothes Washing Machines And Extractors [UL 2157:2015 Ed.3] Electric Clothes Washing Machines And Extractors [CSA C22.2#169:2015 Ed.4]		
Applicant	Cixi Hengma Electrical Technology Co., LTD	Manufacturer	Cixi Hengma Electrical Technology Co., LTD
Address	Industrial Development West Zone, Guanhaiwei Town, Cixi City, Zhejiang Province	Address	Industrial Development West Zone, Guanhaiwei Town, Cixi City, Zhejiang Province
Country	CHINA	Country	CHINA
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2.0 Product Description	
Product	Nonautomatic washing machine
Brand name	NA
Description	The products covered in the report are cord-connected stationary washing machine for household indoor use. It is intended to be connected to 110-120V 60Hz power supply.
Models	XPB followed by 46, 40, 36 or 30; followed by one character; followed by 1298, 1288, 1218 or 1208; followed by SA, SB, A or B
Model Similarity	All the models are similar in construction and with the same electrical component except for the capacity and appearance. Refer to Illustration 3 for details.
Ratings	110-120V, 60Hz, Refer to Illustration 3 for details.
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External View-XPB46-1298SA



Photo 2 - External View-XPB46-1298SB



3.0 Product Photographs

Photo 3 - Sample Rear View_ XPB46-1298SA;XPB46-1298SB



Photo 4- External View_XPB36-1288SA



3.0 Product Photographs

Photo 5 - External View_XPB36-1288SB



Photo 6 - Sample Rear View_XPB36-1288SA; XPB36-1288SB



3.0 Product Photographs

Photo 7 - External View_XPB30-1288SA



Photo 8 - External View_XPB30-1288SB



3.0 Product Photographs

Photo 9 - Sample Rear View_XPB30-1288SA; XPB30-1288SB



Photo 10 - External View_XPB46-1218A



3.0 Product Photographs

Photo 11 - External view_XPB40-1218A



Photo 12 - External view_XPB30-1208B



3.0 Product Photographs

Photo 13 - External View_XPB36-1208A



Photo 14 - External View_XPB30-1208A



3.0 Product Photographs

Photo 15- Sample rear view_XPB46-1218A; XPB40-1218A



Photo 16 - Sample rear view_XPB30-1208B;XPB30-1208A; XPB36-1208A



3.0 Product Photographs

Photo 17- Sample display panel view



Photo 18 - Sample display panel view



3.0 Product Photographs

Photo 19 - Sample internal view



Photo 20 - Sample internal view



3.0 Product Photographs

Photo 21 - Sample water level view

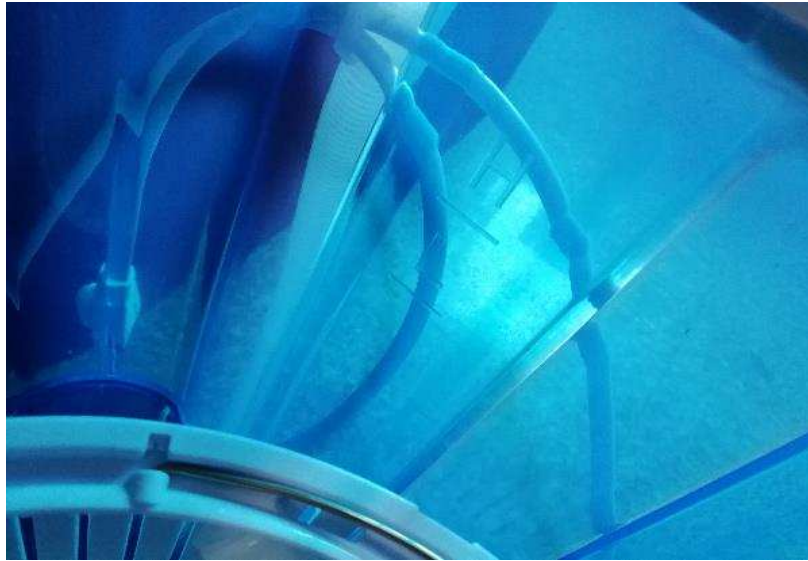
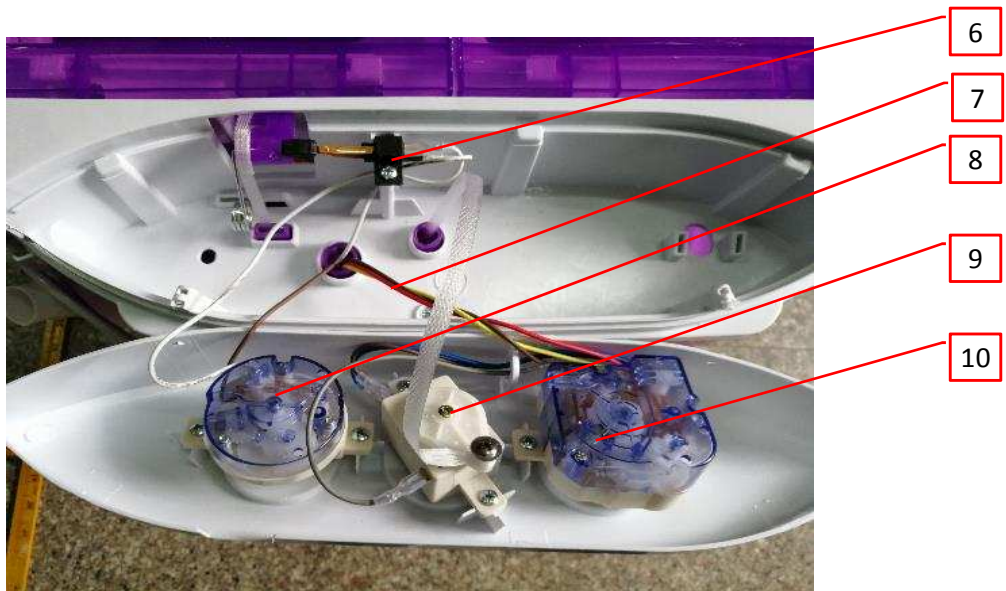


Photo 22 - Sample Internal view



3.0 Product Photographs

Photo 23 - Sample Internal view



Photo 24 - Sample Internal view



3.0 Product Photographs

Photo 25 - Sample Internal view



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Photo 26 - Sample Earthing Connection



3.0 Product Photographs

Photo 27 - Sample Bottom View _all models with molten metal



Photo 28 - Sample Bottom Inner View



3.0 Product Photographs

Photo 29 - Washing motor



Photo 30 - Inner view of washing motor



3.0 Product Photographs

Photo 31 - Spinning motor



Photo 32 - Inner view of spinning motor



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
1	1	Enclosure	HANWHA TOTAL PETROCHEMICAL CO LTD	FB72+	PP, rated V-0, RTI(65, 65, 65), HWI(3), HAI(2), Min.3 mm thick.	cURus
1	2	Lid	CHI MEI CORPORATION	PA758H	ABS, rated HB, RTI(60, 60, 60), Min. 2.5mm thickness	cURus
1	3	Knob& Display panel	CHI MEI CORPORATION	PA-765B	ABS, rated V-0, RTI(80, 65, 80), HWI(2), HAI(0), Min. 2.54mm thickness.	cURus
3	4	Power Cord	Various	SJT	3×18AWG, 300V, 105°C, VW-1, min.1.5 m length	cULus
3	5	Plug	Various	Various	Config NEMA 5-15P, rated 125V, 15A.	cULus
22	6	Safty switch	Ningbo Zhenhai Sanyun Electric Factory	KT	Marked:220-250V, 3A, 1E4 Tested: 120V, 60Hz, 3A, 1E4 Refer to 190101268SHA-001	See 5.0
22	7	Internal wire	Various	1015	18AWG, VW-1, 600V, 105°C	cURus
22	8	Spinning Timer	Cixi City Songkai Electrical Factory	DXT5	Marked: 220-250V, 3.5A, 1E4 Tested: 120V, 60Hz, 3.5A, 1E4 Refer to 190101588SHA-001	See 5.0
22	9	Select switch	Cixi City Songkai Electrical Factory	XZK	Marked: 220-250V, 3.5A, 1E4 Tested: 120V, 60Hz, 3.5A, 1E4 Refer to 190101589SHA-001	See 5.0
22	10	Washing Timer	Cixi City Songkai Electrical Factory	DXT15	Marked: 220-250V, 3.5A, 1E4 Tested: 120V, 60Hz, 3.5A, 1E4 Refer to 190101588SHA-001	See 5.0
24	11	Wire connector	HEAVY POWER CO., LTD.	CE2 CE5	Rated 600V, 105°C	cURus
24	12	Spin Motor	SUZHOU RONGBO ELECTRIC APPLIANCE CO., LTD	YYG-35	110V, 60Hz, 35W, 1.4A, Class B	See 5.0
24	13	Brake mechanism	Various	Various	Employed to stop the rotation of the basket.	NR
24	14	Wash Motor	SUZHOU RONGBO ELECTRIC APPLIANCE CO., LTD	XD-90	110V, 60Hz, 90W, 2.5A, Class B	See 5.0
24	15	Combined Capacitor for wash/spin motor	NINGGUO LONGCH ELECTRIC CO., LTD	CBB60	AC 250V, 50/60Hz, 22+14uF±5%, 40/85/21	cURus
			ZHUJI WATER CONSERVANCY CAPACITOR FACTORY			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
25	16	Capacitor for wash motor	NINGGUO LONGCH ELECTRIC CO., LTD	CBB60	AC 450V, 50/60Hz, 22uF±5%, 40/85/21	cURus
			ZHUJI WATER CONSERVANCY CAPACITOR FACTORY			cURus
3	17	Label (not shown)	Avery (China) Co., Ltd.	S333	Rated -40-80°C, 3 mil synthetic paper/S333	cURus

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

CONTACTS

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
22	6	Safty switch	Ningbo Zhenhai Sanyun Electric Factory	KT

Electrical Rating: Marked:220-250V, 3A, 1E4; Tested: 120V, 60Hz, 3A, 1E4

Component Standard used: UL61058-1, UL 61058-1-1 and CSA C22.2 #61058-1, C22.2#61058-1-1

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Spring abutment	Jiangyin Jihua New Material Co., Ltd.	PBT4306G30	Thickness>1.6mm, V-0, E139063
Contacts	Various	Various	Copper

VERIFICATION PROCESS

Frequency: Annual	Test Site: CEC	Number of samples to test: 1
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Test Name	Test Parameters			
	Volts	Current	Power factor	Number of cycles
Overload Cycling	-	-	-	-
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Basic insulation		1300	1minute

CONTACTS

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
22	8	Spinning Timer	Cixi City Songkai Electrical Factory	DXT5

Electrical Rating: Marked: 220-250V, 3.5A, 1E4; Tested: 120V, 60Hz, 3.5A, 1E4

Component Standard used: UL60730-1, UL60730-2-7 and CSA E60730-1, CSA E730-2-7

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Cover	Jiangyin Jihua New Material Co., Ltd.	PCxh66(aa)	Thickness>1.6mm, V-0, E139063
Body		PBT4306G30	Thickness>1.6mm, V-0, E139063
Push rod			
Spring base			
Wire	Various	1015	18AWG, VW-1, 600V, 105°C

VERIFICATION PROCESS

Frequency: Annual	Test Site: CEC	Number of samples to test: 1
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Test Name	Test Parameters			
	Volts	Current	Power factor	Number of cycles
Overload Cycling	-	-	-	-
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Basic insulation		1320	1minute

5.0 Critical Unlisted CEC Components

CONTACTS

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
22	9	Select switch	Cixi City Songkai Electrical Factory	XZK
Electrical Rating: Marked: 220-250V, 3.5A, 1E4; Tested: 120V, 60Hz, 3.5A, 1E4				
Component Standard used: UL61058-1, UL 61058-1-1 and CSA C22.2 #61058-1, C22.2#61058-1-1				

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Cover	Jiangyin Jihua	PCxh66(aa)	Thickness>1.6mm, V-0, E139063
Body	New Material Co., Ltd.	PBT4306G30	Thickness>1.6mm, V-0, E139063
Push rod			

VERIFICATION PROCESS

Frequency: Annual	Test Site: CEC	Number of samples to test: 1	
Test Name	Test Parameters		
Overload Cycling	Volts	Current	Power factor
	-	-	-
Dielectric Strength	Apply voltage Between		Test Voltage
	Basic insulation		1300
			Test Time
			1minute

CONTACTS

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
22	10	Washing Timer	Cixi City Songkai Electrical Factory	DXT15
Electrical Rating: Marked: 220-250V, 3.5A, 1E4; Tested: 120V, 60Hz, 3.5A, 1E4				
Component Standard used: UL60730-1, UL60730-2-7 and CSA E60730-1, CSA E730-2-7				

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Cover	Jiangyin Jihua	PCxh66(aa)	Thickness>1.6mm, V-0, E139063
Body			
Push rod	New Material Co., Ltd.	PBT4306G30	Thickness>1.6mm, V-0, E139063
Spring base			
Wire	Various	1015	18AWG, VW-1, 600V, 105°C

VERIFICATION PROCESS

Frequency: Annual	Test Site: CEC	Number of samples to test: 1	
Test Name	Test Parameters		
Overload Cycling	Volts	Current	Power factor
	-	-	-
Dielectric Strength	Apply voltage Between		Test Voltage
	Basic Insualtion		1320
			Test Time
			1minute

5.0 Critical Unlisted CEC Components

INSULATED COIL

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
24	12	Spin Motor	SUZHOU RONGBO ELECTRIC APPLIANCE CO., LTD	YYG-35
Electrical Rating: 110V, 60Hz, 35W, 1.4A				Insulation class B
Component Standard used: UL 1004-1&-3, CSA G22.2 No. 77				

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Systems, Electrical Insulation	WENDENG ALLWIN MOTORS MFG CO LTD	ALLWIN-130	Class 130(B), E333012
Protective device	CHANG ZHOU CITY TONG LI ELECTRONICS CO LTD	KW series	135°C, E221946
	CHANGZHOU DESHENG HENGHUI ELECTRONICS CO LTD	BW-A Series	135°C, E343123
	JIANGSU CHANGSHENG ELECTRIC APPLIANCE CO LTD	BW Series	135°C, E214731

WINDING(S) RESISTANCE

Winding Designation	Wire Size	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Blue-White	Φ0.65mm	Copper	720	-	-	15.1
Blue-Grey	Φ0.57mm	Copper	820	-	-	18.1

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
	Winding to rotor	1240V	60s
	Winding to stator	1240V	60s

5.0 Critical Unlisted CEC Components

INSULATED COIL

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
24	14	Wash Motor	SUZHOU RONGBO ELECTRIC APPLIANCE CO., LTD	XD-90
Electrical Rating: 110V, 60Hz, 90W, 2.5A				Insulation class B
Component Standard used: UL 1004-1&-3, CSA C22.2 No. 77				

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Systems, Electrical Insulation	WENDENG ALLWIN MOTORS MFG CO LTD	ALLWIN-130	Class 130(B), E333012
Protective device	CHANG ZHOU CITY TONG LI ELECTRONICS CO LTD	KW series	135°C, E221946
	CHANGZHOU DESHENG HENGHUI ELECTRONICS CO LTD	BW-A Series	135°C, E343123
	JIANGSU CHANGSHENG ELECTRIC APPLIANCE CO LTD	BW Series	135°C, E214731

WINDING(S) RESISTANCE

Winding Designation	Wire Size	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Blue-Yellow	Φ0.60mm	Copper	800	-	-	11.85
Blue-Red	Φ0.60mm	Copper	800	-	-	11.81

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
	Winding to rotor	1240V	60s
	Winding to stator	1240V	60s

6.0 Critical Features

Recognized Component - 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.

Listed Component - 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.

Unlisted Component - 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.

Critical Features/Components - 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.

Construction Details - 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. Spacing - In primary circuits, 1.6 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 6.3 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - 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. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a metal enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord.
6. Polarized Connection - NA
7. Internal Wiring - 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. All wiring is minimum 18 AWG, with a minimum rating of 600V, 105°C.
8. Schematics - NA
9. Markings - The product is marked on a labeling system as described in item no. 17 of Section 4.0 as follows: Product name, manufacturer's name or brand name, model number, voltage, frequency, rated power, serial number etc. Please refer to section 2 & Illustration No. 3 for details.
cETLus recognized logo shall also be in the marking label, with statement of "Conforms to UL Std. 2157 Certified to CSA Std. No. C22.2 No. 169" near it.
The control number 5013687 should be under the cETLus recognized logo.
Notes for cETLus recognized logo:
a) The letters of "Conforms to UL Std. 2157", "Certified to CSA Std. C22.2 No. 169" are not less than 1.5mm in height.
b) The cETLus logo is not less than 8.5mm in width and 8mm in height, "C" , "US" and control number are not less than 2 mm in height.
c) The letter "Intertek" is not less than 3mm in height.
Products are required to have markings in both French and English when they are shipped to Canada markets. It is the responsibility of the Applicant to determine any such requirement and provide bilingual markings, where applicable, in accordance with the Provincial Regulatory Authorities.
10. Cautionary Markings - The following are required on product body (WARNING/CAUTION in below not less than 2.4mm height, and the translations in French are just for reference):
Refer to Illustration No. 1 for details.
11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.
Refer to Illustration No. 2a-2d for details.

7.0 Illustrations

Illustration No. 1_ Caution marking

WARNING—1

To reduce the risk of electric shock, disconnect this appliance from the power supply before attempting any user maintenance. Turning the controls to the OFF position does not disconnect this appliance from the power supply.

AVERTISSEMENT—1

Pour réduire le risque de choc électrique, débrancher l'appareil de l'alimentation électrique avant l'entretien de l'utilisateur. Mettre le contrôle à la position OFF ne débranche pas l'appareil de l'alimentation électrique.

WARNING—2

Do not use this appliance to wash clothes soaked,spotted or washed in gasoline,dry cleaning solvents or any other exposure or flammable substances that could ignite and explode.

AVERTISSEMENT—2

Ne pas utiliser cet appareil pour laver les vêtements trempés, tachés ou déjà lavés dans l'essence, dans des solvants de nettoyage à sec ou toute autre substance explosive ou inflammable qui pourraient prendre feu et exploser.

7.0 Illustrations

Illustration 2a_instruction (partial contents)

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2) Principle of circuit diagram -----	
3) Self-checking of faults -----	
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7.0 Illustrations

Illustration No. 2b_instruction (partial contents)

2、 WASHING SAFETY WARNINGS

WARNING

1. Do not use the washing machine under unattended conditions. Please pull out the power supply after the laundry is completed.
2. The connection of the power cord of this machine is Y connection. When the power cord of your washing machine is damaged, you must go to the repair point set by our company to replace it. Or replace it with a corresponding professional service outlet.
3. When the washing machine is installed on the floor with carpet, the carpet must not block the vent.
4. This product should not be used by young children or people with disabilities unless it is under the guidance of the guardian to ensure that they can use the product safely. Children must be supervised to ensure that they can operate the product on their own.
5. If the appliance is wired through a patch panel or portable power unit, the patch panel or portable power unit must be placed in a location that is not wet and is not easily splashed by water.

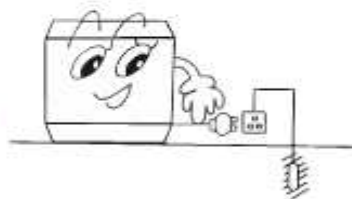


For up-drain washer, when insert the water into the washing tub, please do not leave until the water level reaches the anticipate level, then turn off the tap.

3、 INSTRUCTIONS FOR USE

1) 、 Installation Notes

1. Install the inlet hose. The max water pressure permitted is 0.6MPa, the min is 0.03MPa.
2. Be sure the earthing is ok and insert the plug. And the earthing should not join with gas pipe or water hose.
3. Lay down the drain hose.(Down drain)
4. Put up the drain hose.(Up drain)
5. Please keep machine level, otherwise it will cause an abnormal sound.






7.0 Illustrations

Illustration No. 2c_instruction (partial contents)

2) 、 Operation Guide:

Attention before washing

Be sure of the special request of clothes. the	The quantity of the Clothes should not exceed the rated value. The big clothes like jeans should be put in loosely.	
Take coins, sand and hairpins out of the clothes		
Fasten the buttons and the zippers.	When the pulsator is running, the buttons may cause sound. For safe, put the clothes with button in the middle of the cloth.	

3) 、 Washing precautions :

- The rated capacity of washing, spinning refers to the max weight of the dry clothes. The weight of the clothes to be washed should be below the rated capacity. .
- The capacity will be affected by the thickness, size and type of the clothes. .
- If the weight of the clothes is below 2kg, do not select the high water level, so as to prevent splashing of water. .

Illustration No. 2d_instruction (partial contents)

IMPORTANT SAFETY INSTRUCTIONS

WARNING – To reduce the risk of fire, electric shock, or injury to persons when using your appliance, follow basic precautions, including the following:

- 1) Read all instructions before using the appliance.
- 2) Do not wash articles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, dry-cleaning solvents, or other flammable or explosive substances, as they give off vapours that could ignite or explode.
- 3) Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapours that could ignite or explode.
- 4) Under certain conditions, hydrogen gas may be produced in a hot-water system that has not been used for 2 weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot-water system has not been used for such a period, before using a washing machine, turn on all hot-water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. As the gas is flammable, do not smoke or use an open flame during this time.
- 5) Do not allow children to play on or in the appliance. Close supervision of children is necessary when the appliance is used near children.
- 6) Before the appliance is removed from service or discarded, remove the door.
- 7) Do not reach into the appliance if the tub or agitator is moving.
- 8) Do not install or store this appliance where it will be exposed to the weather.
- 9) Do not tamper with controls.
- 10) Do not repair or replace any part of the appliance or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that you understand and have the skills to carry out.

GROUNDING INSTRUCTIONS

This appliance must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING – Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the appliance is properly grounded.

Do not modify the plug provided with the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

“WARNING – To reduce the risk of fire, electric shock, or injury to persons, read the IMPORTANT SAFETY INSTRUCTIONS before operating this appliance”.


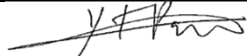
7.0 Illustrations

Illustration No. 3- Products Parameters Table

Model	Rated Power/ (W)		Washing motor	Spinning motor	Size (W*D*H) (mm*mm*mm)	Washing Capacity (kg)	Spinning capacity (kg)
	Wash	Spin					
XPB46-1298SA	300	250	Same motor and same rated	Same motor and same rated	620*365*730	4.6	3.0
XPB46-1298SB	300	250			620*365*730	4.6	3.0
XPB36-1288SA	300	250			590*355*675	3.6	2.0
XPB36-1288SB	300	250			590*355*675	3.6	2.0
XPB30-1288SA	300	250			555*375*590	3.0	1.5
XPB30-1288SB	300	250			555*375*590	3.0	1.5
XPB46-1218A	300	250		Without spinning motor	430*385*655	4.6	--
XPB40-1218A	300	250			390*360*650	4.0	--
XPB30-1208B	300	250			365*365*515	3.0	--
XPB36-1208A	300	250			365*365*515	3.6	--
XPB30-1208A	300	250			335*340*510	4.0	--

8.0 Test Summary				
Evaluation Period	2019-01-15 to 2019-02-22		Project No.	190100763SHA
Sample Rec. Date	10-Jan-2019	Condition	Prototype	Sample ID. 0190110-42-***
Test Location	Intertek Testing Services Shanghai Limited			
Test Procedure	Testing Lab			
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 2157:2015 Ed.3 CSA C22.2#169:2015 Ed.4 Clause			
Starting of motor-operated appliances	7			
Power input and current	8			
Heating	9			
Leakage current	10			
Moisture resistance	11			
Electric strength	13			
Abnormal operation	14			
Stability and Mechanical hazards	15			
Supply connection and external flexible cords	20			
Provision for grounding	22			
Polymeric materials	26			
Test Description	UL 1004-1:2012 Ed.2+R:24Aug2017 UL 1004-3:2015 Ed.2 Clause		CSA C22.2#77:2014 Ed.8 Clause	
Dielectric Voltage Withstand Test	37		6.5	
Locked-Rotor Temperature Test	8		6.4	
Locked-Rotor Endurance Test	9		6.6	
Test Description	UL 61058-1:2017 Ed.5; UL 61058-1-1:2017 Ed.1; CSA C22.2#61058-1:2017 Ed.3; CSA C22.2#61058-1-1:2017 Ed.1 Clause			
Legibility and durability of marking	8.8			
Conductor escape test (TT1)	11.7			
Terminal displacement test (TT2)	11.8			
Protection against humid conditions	14.3			
Insulation resistance and dielectric strength	15			
Heating test for contacts and terminals	16.2			
Heating test for other parts	16.3			
Endurance test	17			
Heating test after endurance test	17.6.2&16.3			
Dielectric strength after endurance test	17.6.3&15.4			
Pull and push test	18.3&18.5			
Ball pressure test	22.1			
Glow-wire test	21.2			
				Reviewed by: Kent Wu

8.0 Test Summary	
Test Description	UL 60730-1:2016 Ed.5; UL 60730-2-7:2014 Ed.2+ R:31Jul2014; CSA E60730-1:2015 Ed.5 ; (R2013) [CSA E730-2-7:1994 Ed.1+A1] Clause
Indelibility of markings	Annex A
Inaccessibility of live parts	8.1.9
Protection against humid conditions	12.2
Electric strength and insulation resistance	13
Heating test	14
Environmental stress	16
Endurance test	17
Dielectric strength after endurance	17.5 and 13.2
Heating test after endurance test	17.14 and 14
Impact test	18.2
Push and pull test for actuating member	18.9
Resistance to heat, fire and tracking	21
	Reviewed by: Kent Wu

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:	Leo Liu	Reviewed by:	Yuetao Pan
Title:	Engineer	Title:	Reviewer
Signature:		Signature:	

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	Cixi Hengma Electrical Technology Co., LTD
Address	Industrial Development West Zone, Guanhaiwei Town, Cixi City, Zhejiang Province
Country	CHINA
Product	Nonautomatic washing machine

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.

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.

Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation

Ship the samples to:
Intertek Testing Services Shanghai Limited
ETL Component Evaluation Center
Building No. 86, 1198 Qinzhou Road (North)
Shanghai 200233, China
Attn: Ms. Angela Han

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
- Grounding Continuity Test
- Plumbing System Leakage Test

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, contractors, 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.	1200V AC	1 s
	or	
	1000V AC	60 s

11.2 Grounding Continuity Test

Method

Each product listed below shall be subjected to a test to determine that there is continuity between accessible dead-metal parts of the product and the grounding pin or blade of the attachment plug.

If all accessible dead metal is connected, only a single test need be performed. A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate grounding continuity.

Products Requiring Grounding Continuity Test:

All products covered by this Report.

11.3 Plumbing System Leakage Test

Method

The manufacturer shall determine that the plumbing system of each appliance produced not leak.
The test shall consist of filling the appliance with a sufficient amount of water and operating the appliance in a manner that will permit any leakage from the plumbing system to be observed.

Products Requiring Pressure Tests for Leakage and Strength:

All products covered by this Report.

