



Report	No.:	FCC 2005004
File Re	ference No.:	2020-05-19
Applica	int:	King of Fans, Inc.
Product	::	60in Asbury
Brand N	Name:	Hampton Bay
Model	No.:	60-ABR
Test Sta	indards:	FCC Part 15 Subpart B
Test R	esult:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility
Approv	ed By	

leng long

Terry Tong

Manager

Dated:

May 19, 2020

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES.

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

 Tel
 (755) 83448688
 Fax
 (755) 83442996
 Email: info@timeway-lab.com



# **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

# CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

# FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

# Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

# A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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#### 1.0 General Details

#### 1.1 Test Lab Details

Name :	SHENZHEN TIMEWAY TESTING LABORATORIES.
Address:	Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le
	Village, Nanshan District, Shenzhen, China
Telephone:	(755) 83448688
Fax:	(755) 83442996

### 1.2 Applicant Details

Applicant:	King of Fans, Inc.
Address:	1951 N.W. 22nd Street, Fort Lauderdale, FL33311, USA
Telephone:	954-484-7500
Fax:	954-784-7602

### 1.3 Description of EUT

1	
Product:	60in Asbury
Manufacturer:	Chienluen Industries (zhongshan) Ltd
Address:	Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451
Brand Name:	Hampton Bay
Model Number:	60-ABR
Rating : Input: 12	0V, 60Hz, Fan W/O Light Kit: 0.65A, 78W; Fan W/Light Kit: 2.15A, 258W
Rx Frequency: 30	)3.9MHz

### 1.4 Submitted Sample: 1 Sample

1.5 Test Duration

Date of Receipt of Application: May 06, 2020 Date of Receipt of Test Item: May 06, 2020 Date of Test: May 06, 2020 ~ May 19, 2020

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB

1.7 Test Engineer

The sample tested by

Print Name: Leo Lau

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### 2.0 List of Measurement Equipment

#### 2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESH3	860905/006	RS	2019.06.21	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2019.06.21	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2019.06.21	1Year
LISN	ESH3-Z5	100294	RS	2019.06.21	1Year
LISN	ESH3-Z5	100253	RS	2019.06.21	1Year
LISN	NNB42	00012	SCHAFFNER	2020.01.07	1Year

#### 2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESPI 3	100379	RS	2019.06.21	1Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2019.06.21	1Year
Amplifier	BBV9743	#218	HP/Agilent	2019.06.21	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2018.07.04	3Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2018.07.09	3Year
Amplifier	8449B	3008A00160	HP/Agilent	2019.06.21	1Year

### 2.3 Auxiliary Equipment

Device	Manufacturer	Model	Rating
N/A			

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### 3.0 Technical Details

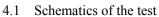
- 3.1 Investigations Requested Perform Electromagnetic Interference [EMI] tests for FCC Requirement.
- 3.2 Test Standards FCC Part 15 Subpart B

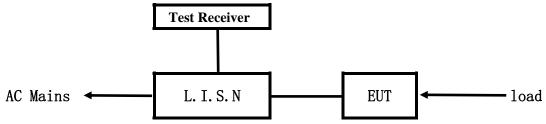
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#### 4.0 Conducted Power line Test



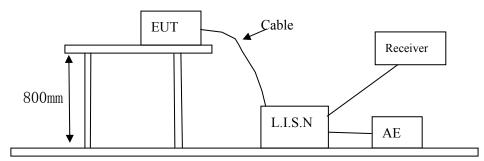


EUT: Equipment Under Test

### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 -2014. Cables and peripherals were moved to find the maximum emission levels for each frequency. Test Voltage: 120V~, 60Hz

Block diagram of Test setup



4.3 Power line conducted Emission Limit

	Class A Li	mits dB(µV)	Class B Limits dB(µV)		
Frequency(MHz)	Quasi-peak Level Average Level		Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.00	66.00	66.00~56.00*	56.00~46.00*	
$0.50~\sim~5.~0$	73.00	60.00	56.00	46.00	
$5.00 \sim 30.00$	73.00	60.00	60.00	50.00	

Notes: 1. \*decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

#### 4.4 Test Results

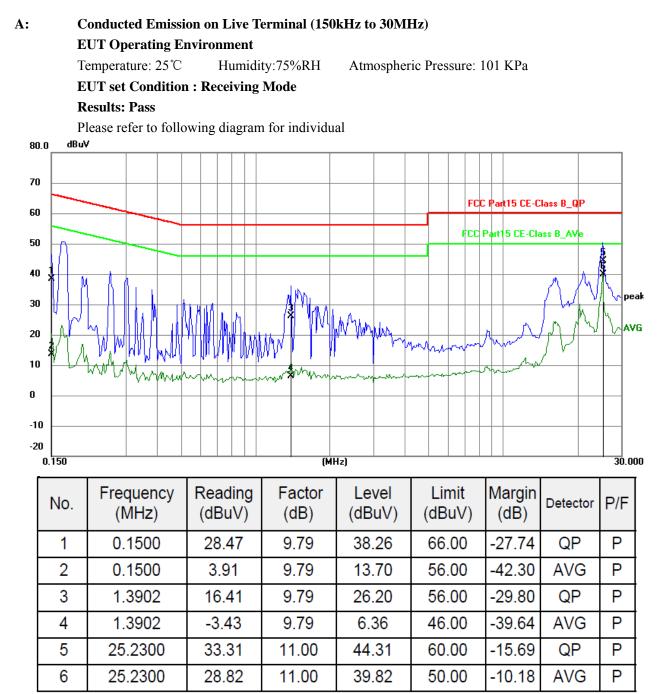
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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Ρ

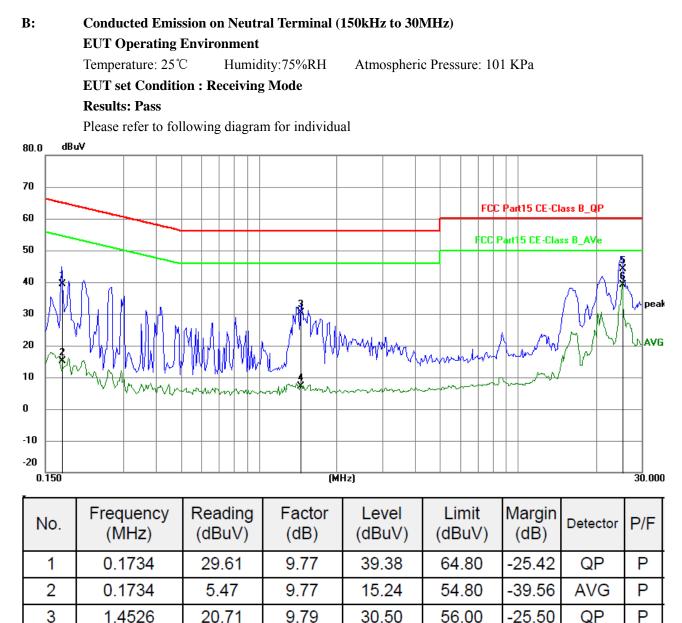
Ρ

Ρ

AVG

QP

AVG



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-2.57

33.07

28.11

9.79

11.00

11.00

4

5

6

1.4526

25.2300

25.2300

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7.22

44.07

39.11

46.00

60.00

50.00

-38.78

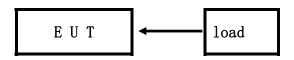
-15.93

-10.89



#### 5.0 Radiated Disturbance Test

5.1 Schematics of the test

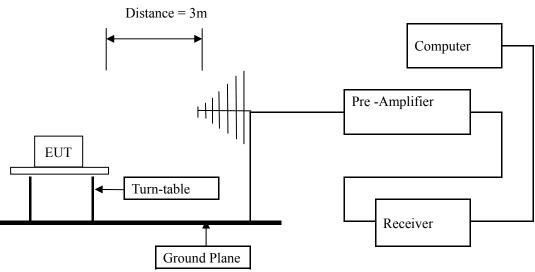


# 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

**Block diagram of Test setup** 



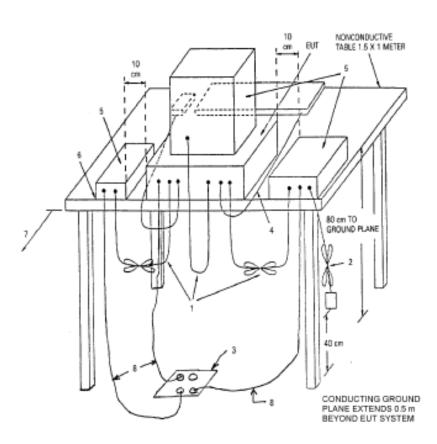
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#### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

#### 5.4 Test result

The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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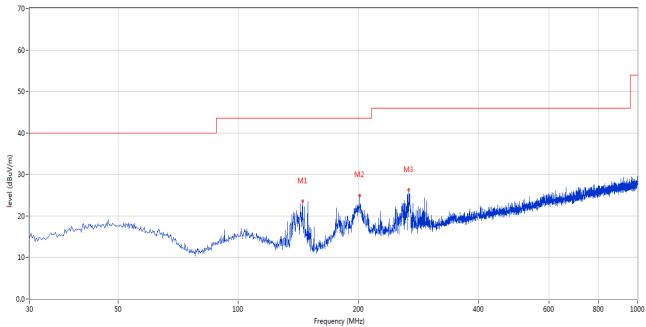
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#### Radiated Disturbance (30MHz----1000MHz) A:

Project Number:	CASE3	Test Time:	2020-05-15_13.52.58
EUT Name:	60in A sbury	Test Engineer:	KENT
Manufacturer:	King of Fans,Inc.	Test Standard:	FCC PART 15B
Model:	60-ABR	Work Addition:	WORKING
Temp.(℃):	25	Load:	
Hum.:	65%	Remark:	

FCC FCC Part 15B Class B 30MHz-1GHz



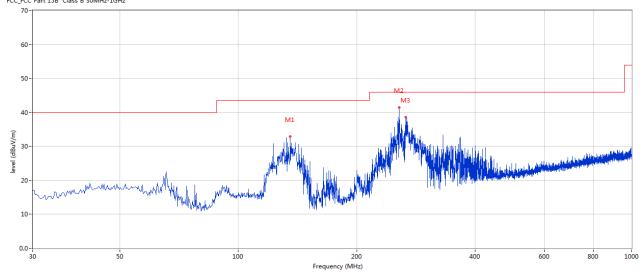
No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	144.916	23.56	-17.22	43.5	-19.94	Peak	58.00	200	н	Pass
2	201.647	24.97	-13.41	43.5	-18.53	Peak	300.00	100	н	Pass
3	267.348	26.31	-11.74	46.0	-19.69	Peak	262.00	100	н	Pass

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#### Radiated Disturbance (30MHz----1000MHz) **B**:

Project Number:	CASE3	Test Time:	2020-05-15_13.55.31
EUT Name:	60in A sbury	Test Engineer:	KENT
Manufacturer:	King of Fans,Inc.	Test Standard:	FCC PART 15B
Model:	60-ABR	Work Addition:	WORKING
Temp.(℃):	25	Load:	
	059/	Demerly	
Hum.:	65%	Remark:	
FCC_FCC Part 15B Class B 30MHz-3	lGHz		

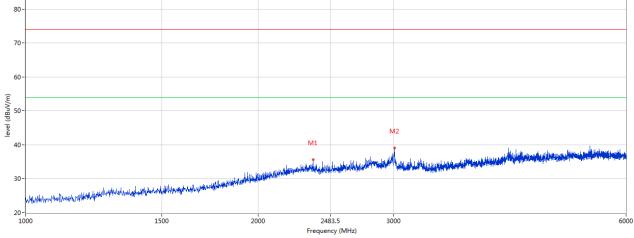


No.	Frequen	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	cy (MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
		)		)	(dB)					
1	135.461	32.86	-17.16	43.5	-10.64	Peak	29.00	100	V	Pass
2	256.681	41.49	-11.98	46.0	-4.51	Peak	0.00	200	V	Pass
3	266.621	38.54	-11.77	46.0	-7.46	Peak	253.00	200	V	Pass

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# C: Radiated Disturbance (1000MHz----5000MHz) EUT Operating Environment Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa EUT set Condition: Receiving Mode Equipment Level: Class B Results: Pass Please refer to following diagram for individual FCC Part 158 Class B 1GHz-6GHz 90 80-

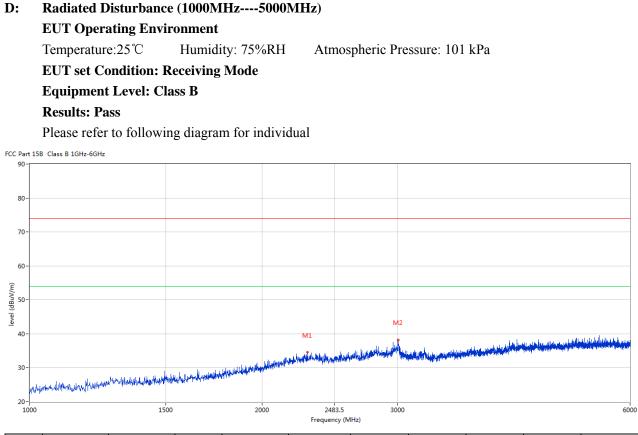


No.	Frequenc	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	y (MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2358.410	35.57	-3.41	74.0	-38.43	Peak	134.00	100	Н	Pass
2	3008.248	39.06	-2.60	74.0	-34.94	Peak	356.00	100	Н	Pass

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No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	2289.678	34.50	-3.20	74.0	-39.50	Peak	172.00	100	V	Pass
2	3002.000	38.24	-2.63	74.0	-35.76	Peak	0.00	100	V	Pass

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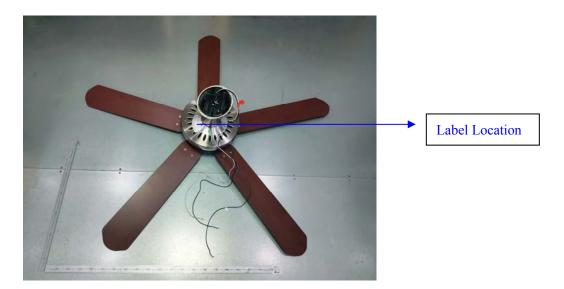


#### 6.0 FCC Label

#### FCC ID: RGB-60ABRC2-

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.



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#### 7.0 Photo of testing

**Conducted Emissions** 



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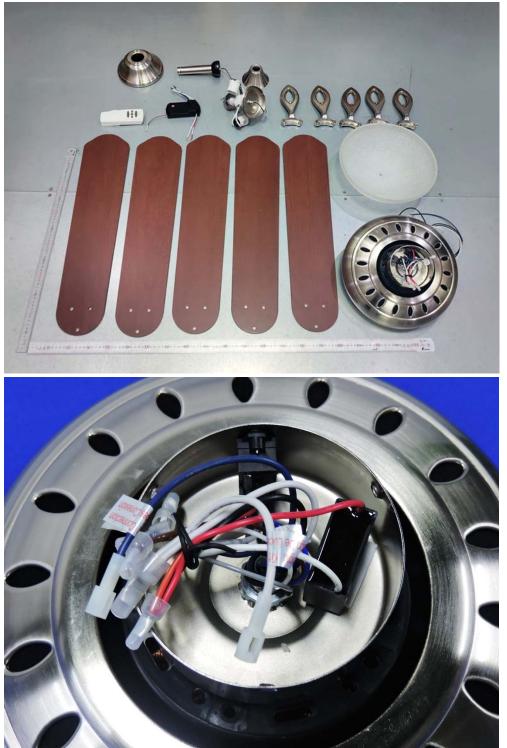
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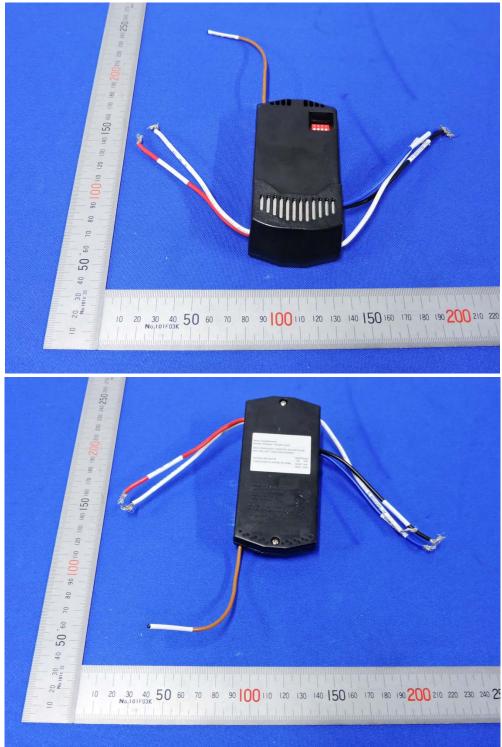
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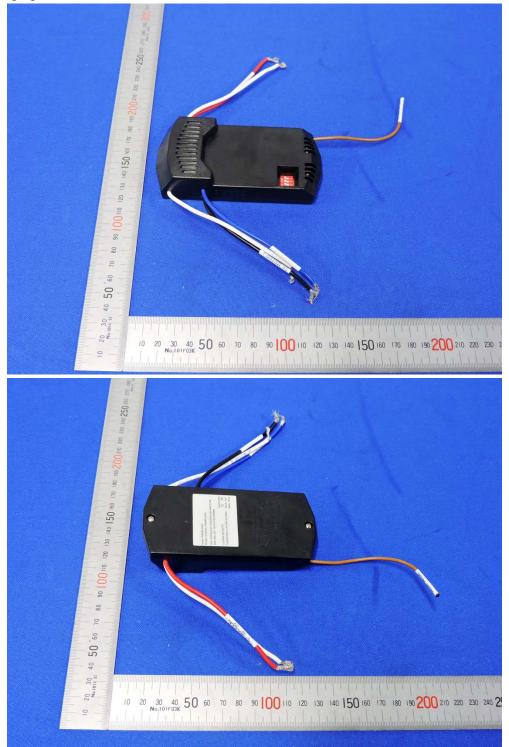
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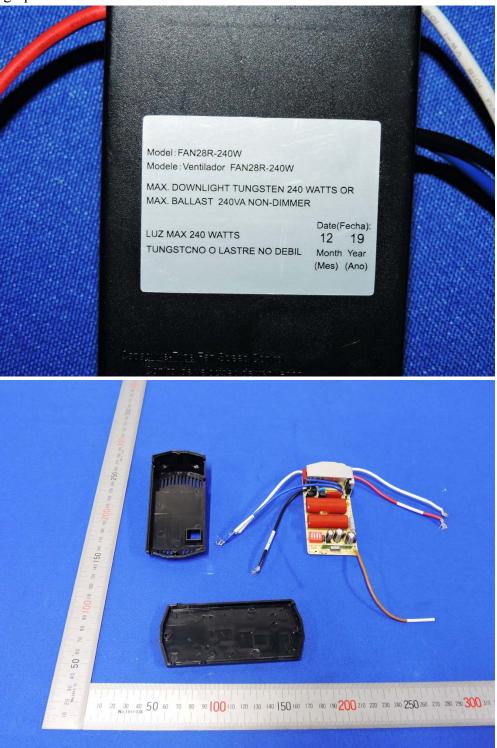
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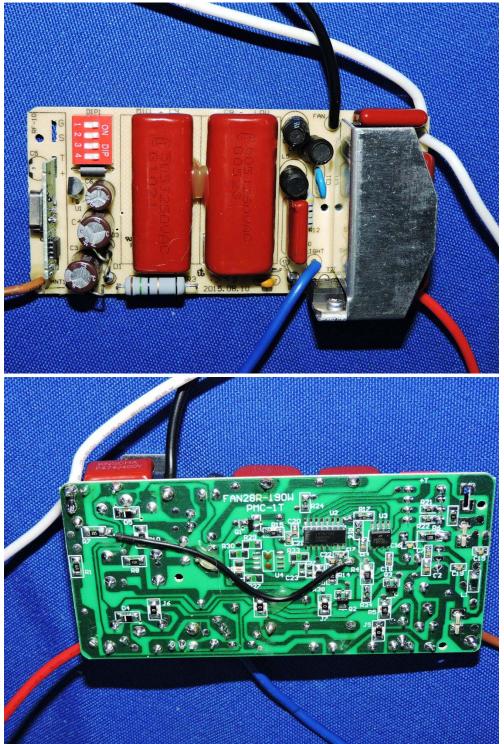
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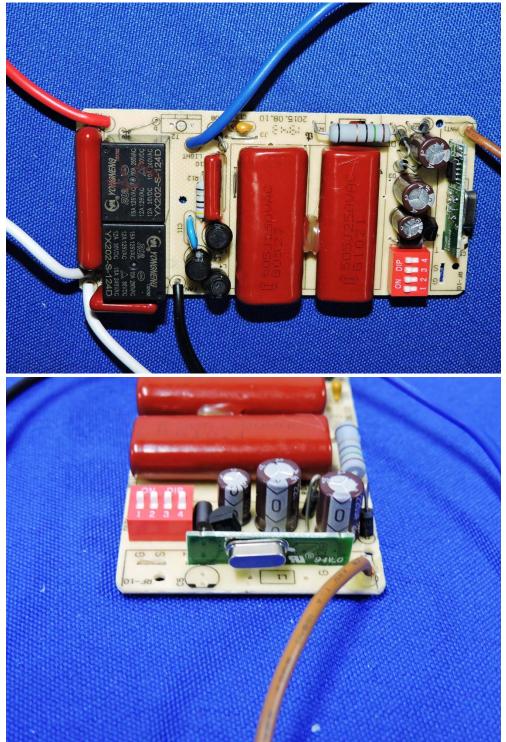
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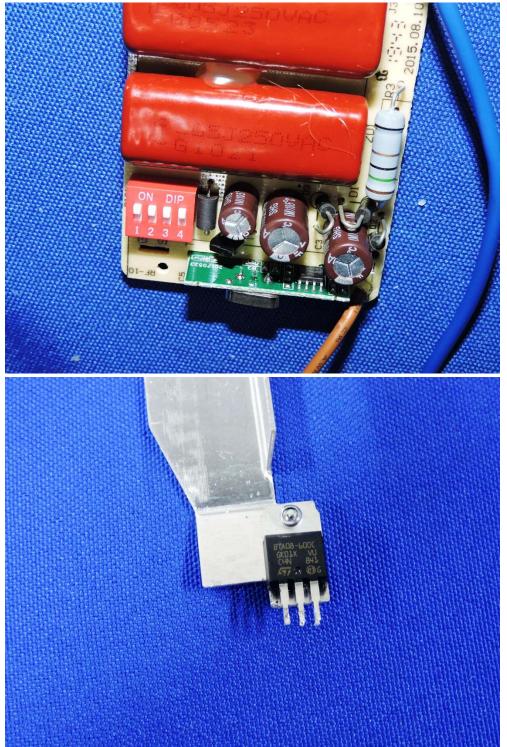
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