



File Reference No.: 2022-01-11

Applicant: King of Fans, Inc.

Product: 60"Downey 56043

Trademark: Home Decorators Collection

Model No.: 60-DOWN

Test Standards: FCC Part 15 Subpart B

Test Result:

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

Approved By

lemy lang

Terry Tang

Manager

Dated: January 11, 2022

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: <u>info@timeway-lab.com</u>

Report No.: TW2201011E Page 2 of 23

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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)

adopt any other remedies which may be appropriate."

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

Date: 2022-01-11



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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

Product: 60"Downey 56043

Manufacturer: Chienluen Industries (zhongshan) Ltd..

Address: Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451

Trademark: Home Decorators Collection

Model Number: 60-DOWN

Rating: Input: 120V~, 60Hz, Fan W/O Light Kit: 0.6A, 40W

Rx Frequency: 433.92MHz

1.4 Submitted Sample: 1 pc

1.5 Test Duration

Date of Receipt of Application: January 04, 2022 Date of Receipt of Test Item: January 04, 2022 Date of Test: January 04, 2022 ~ January 11, 2022

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

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	2021.06.18	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2021.06.18	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2021.06.18	1Year
LISN	ESH3-Z5	100294	RS	2021.06.18	1Year
LISN	ESH3-Z5	100253	RS	2021.06.18	1Year
LISN	NNB42	00012	SCHAFFNER	2022.01.05	1Year

2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESPI 3	100379	RS	2021.06.18	1Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2021.06.18	1Year
Amplifier	BBV9743	#218	HP/Agilent	2021.06.18	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2021.07.02	3Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2021.07.02	3Year
Amplifier	8449B	3008A00160	HP/Agilent	2021.06.18	1Year

2.3 Auxiliary Equipment

Device	Manufacturer	Model	Rating

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3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

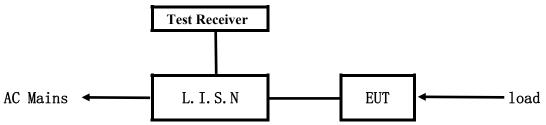
FCC Part 15 Subpart B

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4.0 Conducted Power line Test

4.1 Schematics of the test

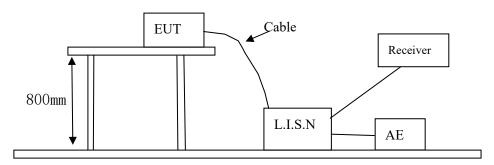


EUT: Equipment Under Test

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

Frequency	Class A Lin	nits dB(µV)	Class B Limits dB(μV)		
(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*	
$0.50 \sim 5.00$	73.00	60.00	56.00	46.00	
5.00 ~ 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.

Note: for this report, only receiving mode was tested.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

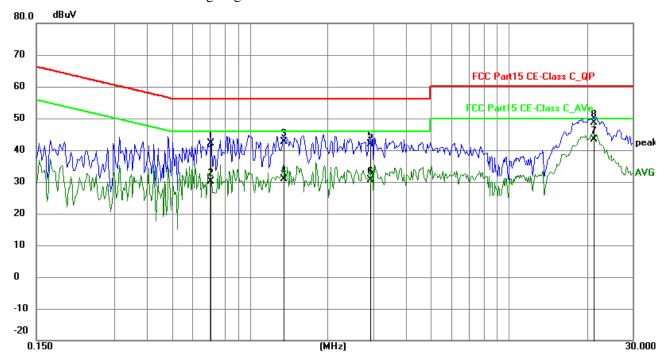
EUT Operating Environment

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Receiving Mode

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.7077	32.38	9.78	42.16	56.00	-13.84	QP	Р
2	0.7077	20.23	9.78	30.01	46.00	-15.99	AVG	Р
3	1.3512	32.94	9.79	42.73	56.00	-13.27	QP	Р
4	1.3512	21.16	9.79	30.95	46.00	-15.05	AVG	Р
5	2.9073	32.16	9.84	42.00	56.00	-14.00	QP	Р
6	2.9073	20.72	9.84	30.56	46.00	-15.44	AVG	Р
7	21.1701	32.54	10.75	43.29	60.00	-16.71	QP	Р
8	21.1701	37.94	10.75	48.69	50.00	-1.31	AVG	Р

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

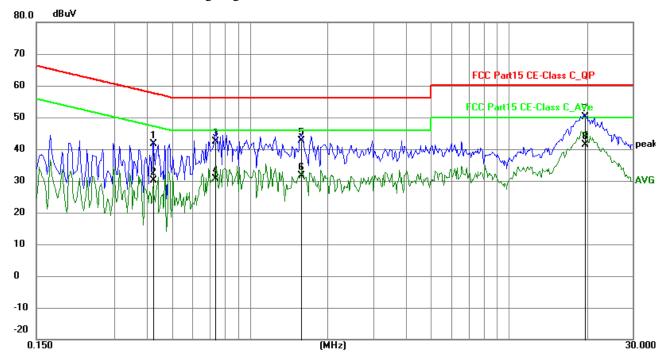
EUT Operating Environment

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Receiving Mode

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4230	31.97	9.76	41.73	57.39	-15.66	QP	Р
2	0.4230	20.29	9.76	30.05	47.39	-17.34	AVG	Р
3	0.7389	32.65	9.78	42.43	56.00	-13.57	QP	Р
4	0.7389	20.83	9.78	30.61	46.00	-15.39	AVG	Р
5	1.5696	32.75	9.80	42.55	56.00	-13.45	QP	Р
6	1.5696	21.90	9.80	31.70	46.00	-14.30	AVG	Р
7	19.5360	39.58	10.65	50.23	60.00	-9.77	QP	Р
8	19.5360	30.64	10.65	41.29	50.00	-8.71	AVG	П

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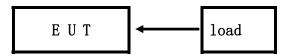
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

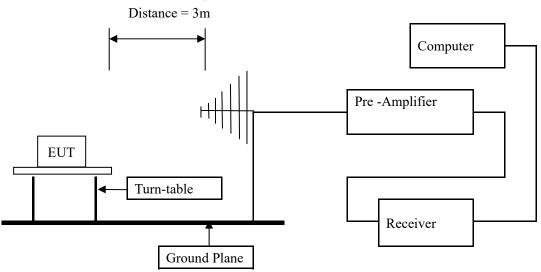


5.2 Test Method and test Procedure:

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=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

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

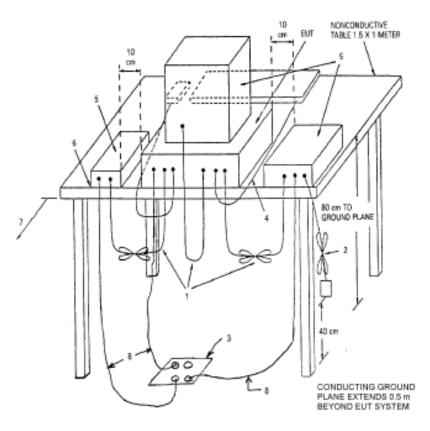
Block diagram of Test setup



[&]quot;The report refers only to the sample tested and does not apply to the bulk production.

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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ 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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A: Radiated Disturbance (30MHz----1000MHz)

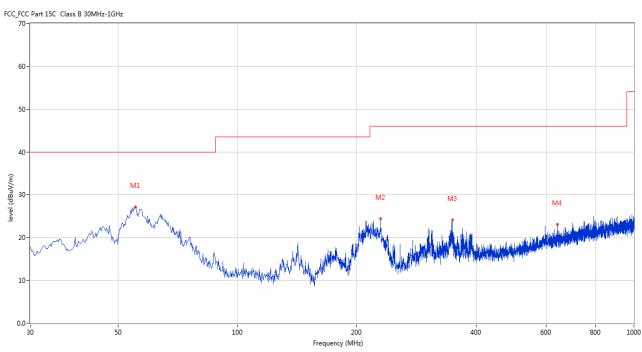
Project Number: CASE1 Test Time: 2022-01-08 15.19.46

EUT Name: 60"Downey 56043 Test Engineer: Vincent

FCC PART 15B Manufacturer: Chienluen Industries (zhongshan) Ltd.. Test Standard:

Model: 60"Downey 56043 Work Addition: Receiving

Temp.(°C): 25 Load: 65% Remark: Hum.:



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	55.214	27.18	-11.83	40.0	-12.82	Peak	29.00	100	Horizontal	Pass
2	229.770	24.36	-12.68	46.0	-21.64	Peak	49.00	100	Horizontal	Pass
3	349.293	24.18	-9.41	46.0	-21.82	Peak	29.00	100	Horizontal	Pass
4	640.462	23.09	-4.79	46.0	-22.91	Peak	5.00	100	Horizontal	Pass

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Radiated Disturbance (30MHz----1000MHz)

Test Time: Project Number: CASE1 2022-01-08 15.20.34

EUT Name: 60"Downey 56043 Test Engineer: Vincent

Test Standard: FCC PART 15B Manufacturer: Chienluen Industries (zhongshan) Ltd..

Model: 60"Downey 56043 Work Addition: Receiving

Temp.(°C): 25 Load: Hum.: 65% Remark:

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50-								
50-								
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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	30.988	42.53	-14.59	40.0	2.53	Peak	9.00	110	Vertical	N/A
1*	30.988	36.66	-14.59	40.0	-3.34	QP	9.00	110	Vertical	Pass
2	35.824	41.10	-13.84	40.0	1.10	Peak	135.00	100	Vertical	N/A
2*	35.824	36.17	-13.84	40.0	-3.83	QP	135.00	100	Vertical	Pass
3	44.061	35.08	-11.47	40.0	-4.92	Peak	232.00	100	Vertical	Pass
4	55.214	31.86	-11.83	40.0	-8.14	Peak	174.00	100	Vertical	Pass
5	88.428	25.47	-15.55	43.5	-18.03	Peak	188.00	100	Vertical	Pass
6	227.831	21.03	-12.78	46.0	-24.97	Peak	47.00	100	Vertical	Pass

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C: Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

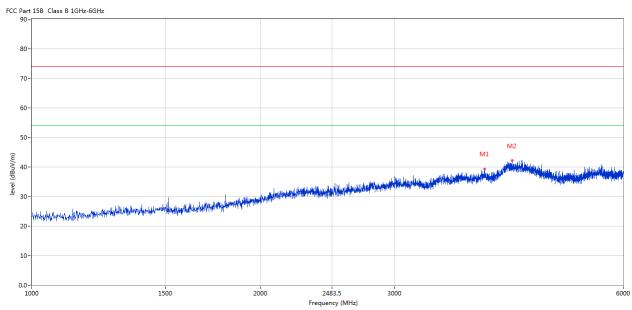
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	3940.515	39.32	0.97	74.0	-34.68	Peak	3.00	100	Horizontal	Pass
2	4287.928	42.12	1.81	74.0	-31.88	Peak	8.00	100	Horizontal	Pass

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D: Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

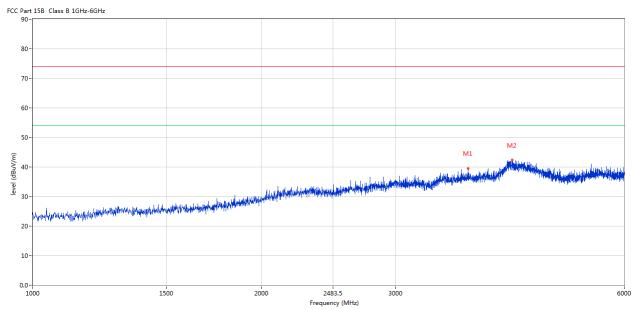
Atmospheric Pressure: 101 kPa Temperature:25°C Humidity: 75%RH

EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	3739.315	39.52	-0.01	74.0	-34.48	Peak	9.00	100	Vertical	Pass
2	4274.181	42.31	1.78	74.0	-31.69	Peak	5.00	100	Vertical	Pass

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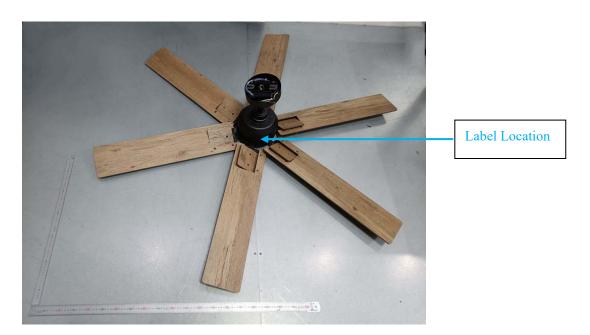


6.0 FCC Label

FCC ID: RGB-60-DOWND

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.



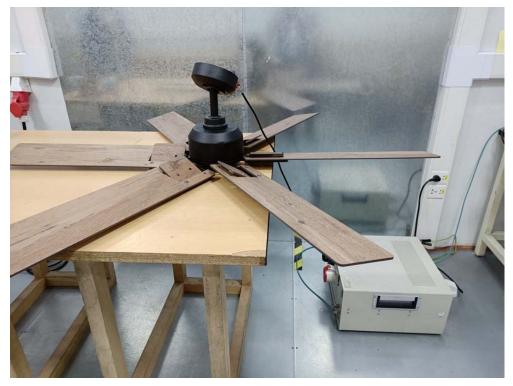
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7.0 Photo of testing

Conducted Emissions



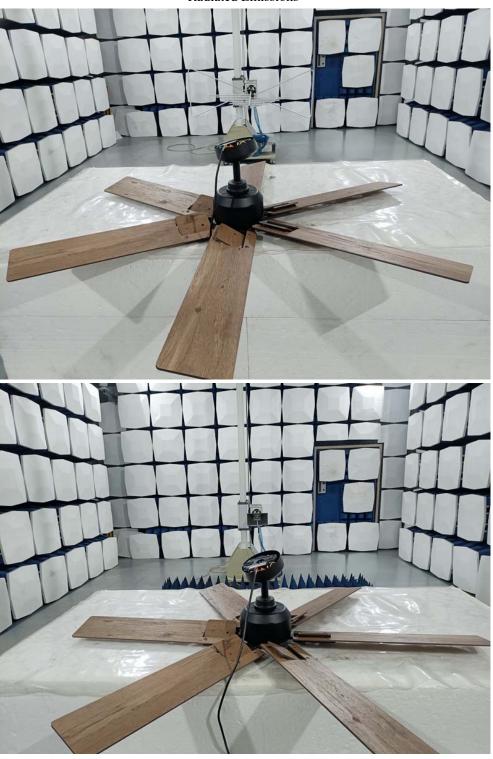
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Radiated Emissions



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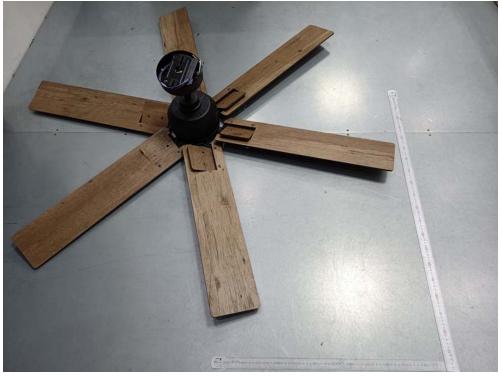
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Photographs – EUT





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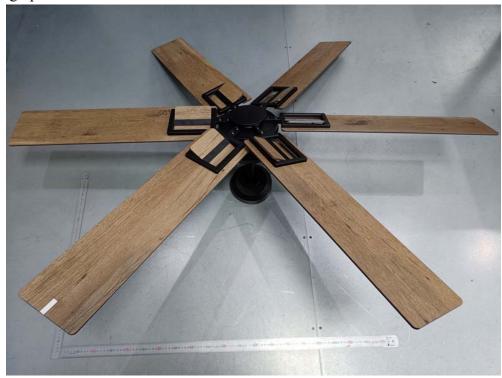
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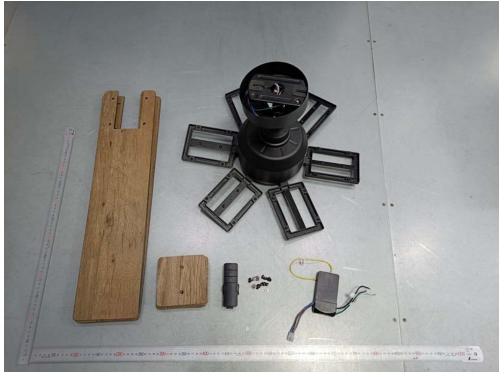
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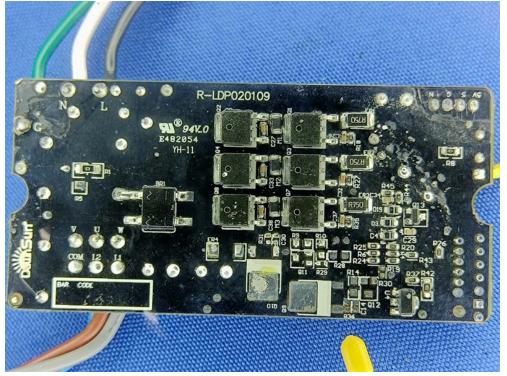
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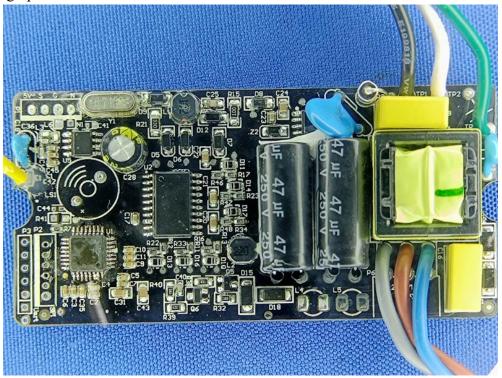
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End of The Report