CERTIFICATE OF CONFORMITY

Certificate No.	FCS202406285CA01
Product	Bluetooth Smart Switch
Brand Name	N/A
Model(s) No.	XMZ-TB10 max
Series Model	XMZ-TB20 max, XMZ-TB30 max, XMZ-TB40 max, XMZ-HTB1 max
Holder	Renqiu xinmaizhong auto parts co.ltd
Address	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, Cangzhou City, Hebei Province
Manufacturer	Renqiu xinmaizhong auto parts co.ltd
Address	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, Cangzhou City, Hebei Province
Report No.	FCS202406285E01;FCS202406285A01;FCS202406285H01; FCS202406285W01

TEST STANDARDS:

EN IEC 55014-1:2021
EN IEC 55014-2:2021
ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-17 V3.2.5 (2022-08)
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013/A2:2021/AC:2022-01
ETSI EN 300 328 V2.2.2 (2019-07)
EN 60335-1:2012/A11:2014/A13:2017/A1:2019/A14:2019/A2:2019/A15:2021
EN 62479: 2010

The applicant of the certificate is authorized to use this certificate in connection with EC declaration of conformity to the Directive. The certificate is only applicable to the equipments described above.
The submitted sample of the above equipment has been tested and found to comply with the following European Directive:

CE_RED Directive - 2014/53/EU

CE

Approved by:

Jul 03, 2024

Jack Wang/Managerial

The statement is based on a single evaluation of the sample of above mentioned product(s). It does not imply an assessment of the whole production.

Dongguan Funas Testing Technology Co.,Ltd.
Tel: 0769-27280901 **http://www.fcs-lab.com**

Declaration Of Conformity （DOC）

We (refer to below company) declare that this declaration of conformity is issued under our sole responsibility and belongs to the following product(s).

【Product Identification】

*__Product Name__: **12V/24V Low Noise Spilt Parking Air Conditioner AC Unit 10000BTU Electric Refrigeration Integrated Machine For Cab Truck Vehicle**

*__Product Identifier__:

Model/Type Number: SKU9402723+SKU94027N4

Batch Number:

Serial Number:

【Manufacturer / Responsible Economic Operator】

*__Company Name:__ RenQiuShiXinSiTeQiChePeiJian Co., Ltd

*__Company Address:__ Dajiang Village, Liangzhao Town, Renqiu City, Hebei Province, China

*__Country:__ China

*__Responsible Person__: PENG CHEN

*__Telephone:__ 13726231201

*__Email:__ sunster202@163.com

EU Representative: SUCCESS COURIER SI

EU Representative Address: CALLE RIO TORMES NUM. 1, PLANTA 1, DERECHA, OFICINA 3, Fuenlabrada, Madrid, 28947 Spain

Contact Information: 910602659

*The product of the declaration described above is in conformity with the relevant Union legislation:

Electromagnetic compatibility Directive 2014/30/EU

Restriction of the use of certain hazardous substances (RoHS) Directive 2011/65/EU

The following harmonized standards and technical specifications have been applied:

Notified body (where applicable):

Name of Notified Body (if applicable):

4 Digit Notified Body Number:

*__Signed by / on behalf of:__ Peng Chen

*__Position / Function:__ Authorised Representative

*__Signature/Date__: 2026/04/13

TEST REPORT

for

Product: Toolbox Heater
Model: XMZ-TB20
Report No.: PTC24062113501E-EM01

Issued for

Renqiu xinmaizhong auto parts co.ltd
No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, Cangzhou City, Hebei Province

Issued by

Dongguan Precise Testing & Certification Corp., Ltd.
Building D, Baoding Technology Park, Guangming Road 2, Guangming Community, Dongcheng District, Dongguan, Guangdong, China
TEL: +86-769-3880 8222
FAX: +86-769-3882 6111

Note: This report shall not be reproduced except in full, without the written approval of Dongguan Precise Testing & Certification Corp., Ltd. This document may be altered or revised by Dongguan Precise Testing & Certification Corp., Ltd. personnel only, and shall be noted in the revision section of the document. The test results presented in this report only relate to the tested sample.

TABLE OF CONTENTS

1 TEST CERTIFICATION 3
2 TEST SUMMARY 4
3 TEST SITE 5
3.1. TEST FACILITY 5
3.2. Measurement Uncertainty 5
3.3. LIST OF TEST AND MEASUREMENT INSTRUMENTS 6
4 EUT DESCRIPTION 8
5 EMI and EMS Test Results 9
5.1. Radiated Emissions (30 MHz to 1 GHz) 9
5.2. Transient Conducted Emissions Test 16
5.3 Transient Conducted Immunity 20
6. PHOTOGRAPHS OF THE TEST CONFIGURATION 23
7. PHOTOGRAPHS OF EUT 24

1 TEST CERTIFICATION

Product:	Toolbox Heater
Model:	XMZ-TB20
Applicant :	Renqiu xinmaizhong auto parts co.ltd
Address:	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, Cangzhou City, Hebei Province
Manufacturer:	GUANGDONG LENG LALA ELECTRIC TECHNOLOGY CO.,LTD
Address:	FIRST FLOOR,BUILDING,SHANGNAN VILLAGE,FUSHA TOWN,ZHONGSHAN
Test Date:	June 24, 2024 to July 18, 2024
Issue Date:	July 18, 2024
Test Voltage:	DC 12V
Applicable Standards:	EMC Directive 2004/104/EC EN 50498:2010

The above equipment has been tested by Dongguan Precise Testing & Certification Corp., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Test Engineer: Carson Zhong / Engineer

Technical Manager: Simon Pu / Manager

2 TEST SUMMARY

Electromagnetic Interference (EMI)				
Test	**Test Requirement**	**Test Method**	**Class / Severity**	**Result**
Radiated Emissions (30-1000MHz)	EN 50498:2010	2004/104/EC Clause 6.5 and 6.6	Table 1 for broad band Table 2 for narrow band	PASS
Transient Conducted Emissions	EN 50498:2010	2004/104/EC & ISO 7637-2:2011	Table 3	PASS

Electromagnetic Susceptibility (EMS)				
Test	**Test Requirement**	**Test Method**	**Class / Severity**	**Result**
Transient Conducted Immunity	EN 50498:2010	2004/104/EC & ISO 7637-2:2011	Table 4	PASS

Note: 1) **EUT:** In this whole report EUT means Equipment Under Test.
EUT can be DC 12V and DC 24V power supply. This report only records the worst mode of DC12V

3 TEST SITE

3.1. TEST FACILITY

Dongguan Precise Testing & Certification Corp., Ltd.

Address: Building D, Baoding Technology Park, Guangming Road 2, Dongcheng District, Dongguan, Guangdong, China

☆ CNAS Registration No.: CNAS L5772

☆ FCC Registration No.: 790290

☆ A2LA Certificate No.: 4408.01

☆ IC Registration No.: 12191A-1

3.2. Measurement Uncertainty

Parameter	U_{lab}	U_{cispr}
Temperature	±1° C	-
Humidity	±5%	-
DC and Low Frequency Voltages	±3%	-
Conducted Emission(9KHz-150KHz)	±3.60dB	±3.80dB
Conducted Emission(9KHz-30MHz)	±3.60dB	±3.40dB
Conducted Emission(Control port)	±3.46dB	±5.00dB
Disturbance Power	±3.68dB	±4.50dB
Loop	±4.02dB	±3.30dB
Radiated Emission(30MHz-1GHz)	±4.76dB	±6.30dB
Radiated Emission (1GHz-6GHz)	±4.44dB	±5.20dB
Radiated Emission (6GHz-18GHz)	±4.44dB	±5.50dB

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.2.1 DECISION RULE

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The Ulab is less than Ucispr, compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an adjustment is made follows： any additionan uncertaimty in the test system over and above that specified in harmonized standard should be used to tighter the test requirements-making the test harder to pass. This procedure will ensure that a test system not comliant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system comliant with harmonized standard had been used.

3.3. LIST OF TEST AND MEASUREMENT INSTRUMENTS

3.3.1. For radiated emission test (30MHz-1GHz)

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 17,2023	1 Year
Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3355	Aug. 17,2023	1 Year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	Aug. 17,2023	1 Year
Test S/W	Tonscend	JS32-RE/4.0.0.0			
ISN	SCHWARZBECK	NNBM	8124	Aug. 17,2023	1 Year

3.3.2. For ISO7637-2 Transient Conducted Immunity

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Calibration Interval
Ultra Compact Simulator	EM Test/AG	UCS 200M	V0725102618	Aug. 17,2023	1 Year
Voltage Drop Generator	EM Test/AG	VDS 200 B2	V0725102619	Aug. 17,2023	1 Year

Voltage transient emissions test system	LIONCEL	TES-200E	0190703	Aug. 17,2023	1 Year
Automobile test system	LIONCEL	LAS-7650B	201002	Aug. 17,2023	1 Year

4 EUT DESCRIPTION

Product	Toolbox Heater
Model	XMZ-TB20
Rated Supply	DC 14.5V
DC Input Lines	☐ Shielded ☒ Unshielded, ☐ Detachable ☒ Un-detachable ☐ Not applicable ☒ Length: 1.25m
USB Lines	☐ Shielded ☐ Unshielded, ☐ Detachable ☐ Un-detachable ☒ Not applicable ☐ Length:

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
USB Port	1	☐
DC Port	1	☒

Models Difference

N/A

5 EMI and EMS Test Results

5.1. Radiated Emissions (30 MHz to 1 GHz)

Result	:	**Pass**
Test Requirement	:	EN 50498
Test Method	:	Clause 6.5 and 6.6 of 2004/104/EC
Test Voltage	:	DC 12V
Frequency Range	:	30 MHz to 1 GHz
Measurement Distance	:	1 meter
Limits	:	Table 1 of EN 50498 (for broadband emissions)

Frequency range F MHz	Limits Quasi peak dBµV/m
30 to 75	62-52 [a]
75 to 400	52-63 [b]
400 to 1000	63
[a] Decreasing linearly with the log of the frequency. [b] Increasing linearly with the log of the frequency.	

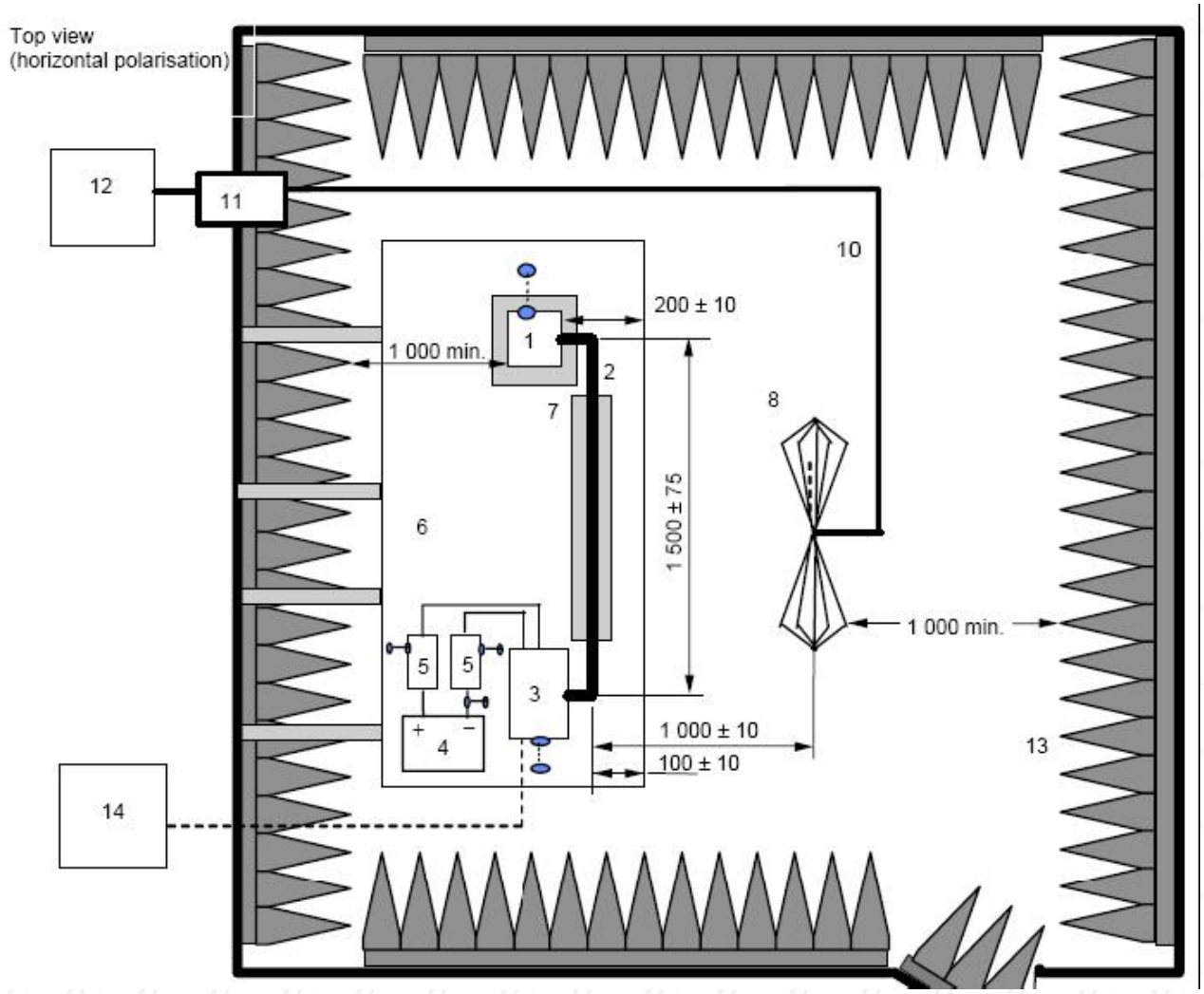
Table 2 of EN 50498 (for narrowband emissions)

Frequency range F MHz	Limits Average dBµV/m
30 to 75	52-42 [a]
75 to 400	42-53 [b]
400 to 1000	53
[a] Decreasing linearly with the log of the frequency. [b] Increasing linearly with the log of the frequency.	

Detector: : Peak for pre-scan (120 kHz resolution bandwidth)
Quasi-Peak for broadband emissions
Average for narrowband emissions

5.1.1 Test Setup and Procedure

The EUT was insulated placed 50 mm above the ground plane, the ground plan was in a height of 1 m to the reference plane of semi-anechoic chamber and with electrical connection. No additional electric connection was made between the EUT and ground plane as the EUT will not be intended to be bonded to the bodywork of the vehicle. The EUT was powered by DC 12 V and DC 24V vehicle batteries through 5 uH/50 ohm LISN.



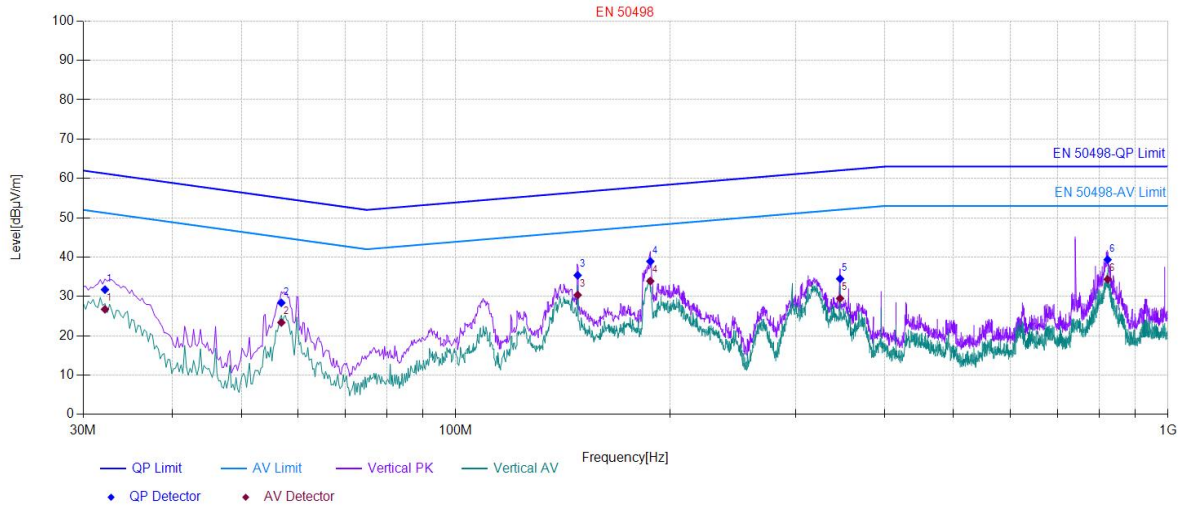
Key

1. EUT (grounded locally if required in test plan)
2. Test harness
3. Load simulator
4. Power supply (location optional)
5. Artificial network (AN)
6. Ground plane (bonded to shielded enclosure)
7. Low relative permittivity support.
8. Antenna
10. High-quality coaxial cable
11. Bulkhead connector
12. Measuring instrument
13. RF absorber material
14. Stimulation and monitoring system

Note: Test Software Name: e3, Software Version: 8.2.1.0.

5.1.2 Measurement Data

Product name	Toolbox Heater	Tested By	ZZY
Model	XMZ-TB20	Detector Function	Peak / Quasi-peak/AV
Test Mode	Working		
Environmental Conditions	24.2℃, 53 % RH, 101.2 kPa	Test Result	Pass



Test Site : 966 Chamber

Dis. / Ant. : 1m ANT-1M

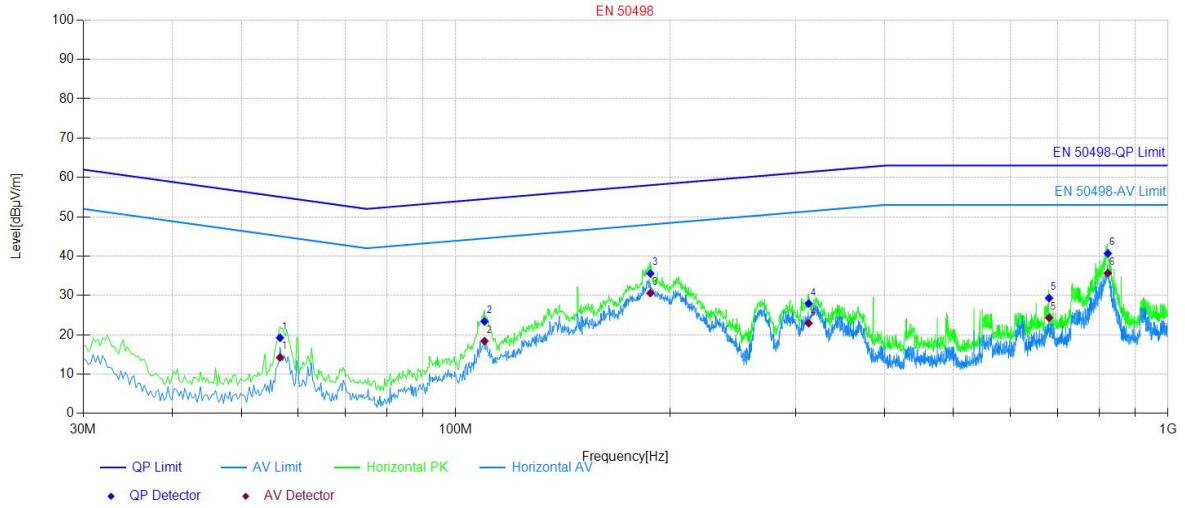
Test Phase : HORIZONTAL

Power Input : DC 12V

Note: /

NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Detector	Height [cm]	Angle [°]	Verdict
1	32.18	49.95	-18.22	31.73	61.23	29.50	QP	100	170	PASS
2	56.92	46.29	-17.92	28.37	55.01	26.64	QP	100	249	PASS
3	148.34	51.65	-16.28	35.37	56.48	21.11	QP	100	235	PASS
4	187.63	56.83	-17.92	38.91	58.03	19.12	QP	100	174	PASS
5	346.46	48.84	-14.35	34.49	62.06	27.57	QP	100	216	PASS
6	822.73	43.43	-4.09	39.34	63.00	23.66	QP	100	331	PASS

NO.	Freq. [MHz]	AV Reading [dBµV/m]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Detector	Height [cm]	Angle [°]	Verdict
1	32.18	44.95	-18.22	26.73	51.23	24.50	AV	100	170	PASS
2	56.92	41.29	-17.92	23.37	45.01	21.64	AV	100	249	PASS
3	148.34	46.65	-16.28	30.37	46.48	16.11	AV	100	235	PASS
4	187.63	51.83	-17.92	33.91	48.03	14.12	AV	100	174	PASS
5	346.46	43.84	-14.35	29.49	52.06	22.57	AV	100	216	PASS
6	822.73	38.43	-4.09	34.34	53.00	18.66	AV	100	331	PASS



Test Site : 966 Chamber
Dis. / Ant. : 1m ANT-1M
Test Phase : VERTICAL
Power Input : DC 12V
Note: /

NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Detector	Height [cm]	Angle [°]	Verdict
1	56.68	37.18	-17.93	19.25	55.06	35.81	QP	100	136	PASS
2	109.78	42.13	-18.73	23.40	54.50	31.10	QP	100	29	PASS
3	187.63	53.5	-17.92	35.58	58.03	22.45	QP	100	329	PASS
4	313.00	43.01	-15.07	27.94	61.39	33.45	QP	100	350	PASS
5	680.87	36.18	-6.86	29.32	63.00	33.68	QP	100	211	PASS
6	823.22	44.76	-4.08	40.68	63.00	22.32	QP	100	254	PASS

NO.	Freq. [MHz]	AV Reading [dBµV/m]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Detector	Height [cm]	Angle [°]	Verdict
1	56.68	32.18	-17.93	14.25	45.06	30.81	AV	100	136	PASS
2	109.78	37.13	-18.73	18.40	44.50	26.10	AV	100	29	PASS
3	187.63	48.5	-17.92	30.58	48.03	17.45	AV	100	329	PASS
4	313.00	38.01	-15.07	22.94	51.39	28.45	AV	100	350	PASS
5	680.87	31.18	-6.86	24.32	53.00	28.68	AV	100	211	PASS
6	823.22	39.76	-4.08	35.68	53.00	17.32	AV	100	254	PASS

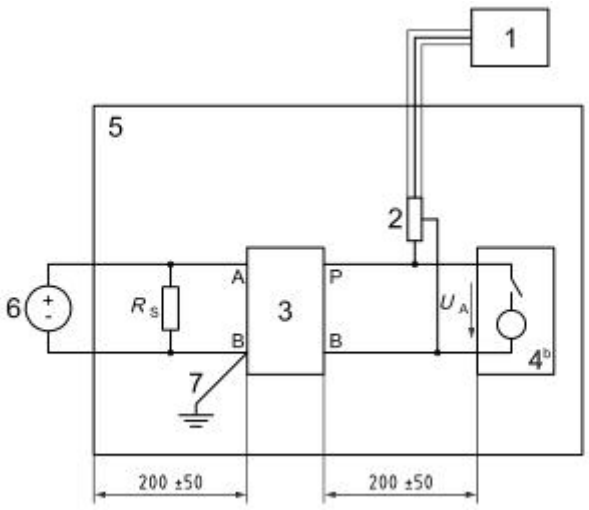
5.2. Transient Conducted Emissions Test

Result	:	**Pass**
Test Requirement	:	EN 50498
Test Method	:	Clause 7.3 2004/104/EC & ISO 7637-2
Test Voltage	:	DC 12V
Test Limit	:	Table 3 of EN50498

5.2.1 E.U.T. Operation

One mode with full load supplied by 12V battery.

5.2.2 Test Setup



1. oscilloscope or equivalent 2. voltage probe 3. artificial network
4 .DUT (source of transient) 5. ground plane 6. power supply
7 .ground connection; length <100 mm R s shunt resistance, as specified in 5.2
S switch, as specified in 5.3 U A supply voltage NOTE For A, B, and P, see Figure 3.
a Optionally with internal switch driving inductive load.
b With internal load and switch.

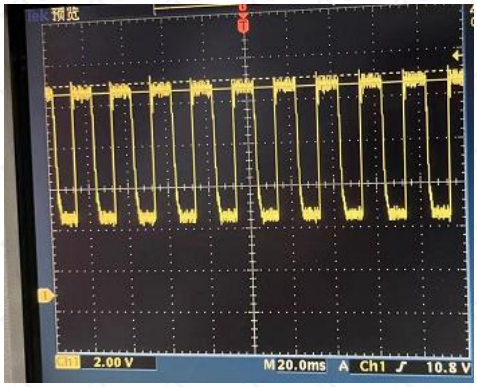
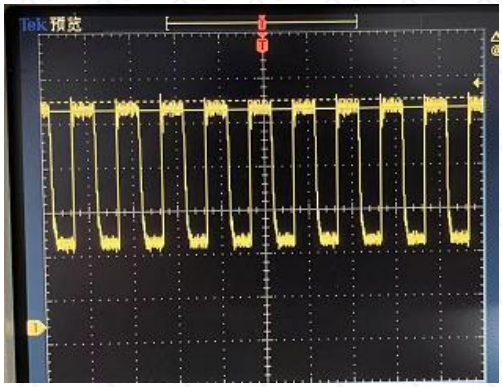
5.2.3 TEST LIMIT

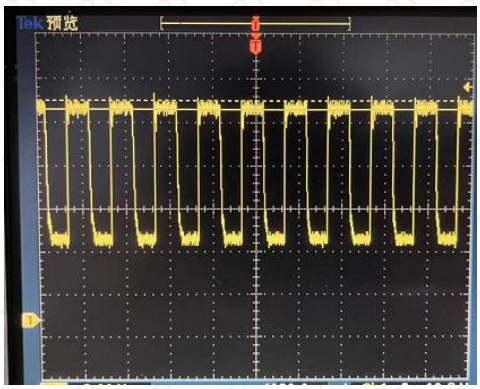
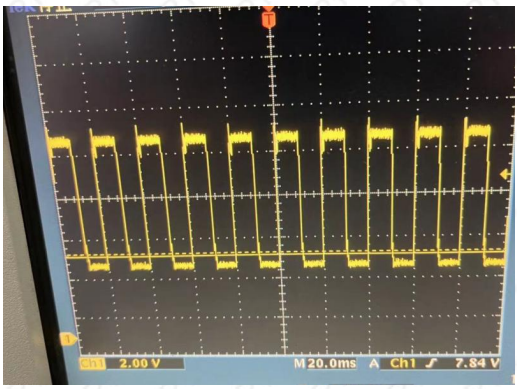
Suggested limits for the classification of 12V equipment	
Positive	+ 75 V
Negative	− 100 V

Suggested limits for the classification of 24V equipment	
Positive	+150 V
Negative	− 450 V

5.2.4 Test Result

Product	Toolbox Heater	Environmental Conditions	24.2℃, 55 % RH, 101.5kPa
Model	XMZ-TB20	Tested By	QJR
Test mode	Working	Test Result	Pass

Fast pulse			
Switch status: On->Off		Switch status: Off->On	
Max. Positive:	1.71V	Max. Positive:	1.72V
Max. Negative:	-2.73V	Max. Negative:	-2.72V
			
Slow pulse			
Switch status: On->Off		Switch status: Off->On	
Max. Positive:	1.70V	Max. Positive:	1.71V
Max. Negative:	-2.71V	Max. Negative:	-2.72V

Tek 预览
CH1 2.00 V
M 20.0ms A Ch1 7.84 V

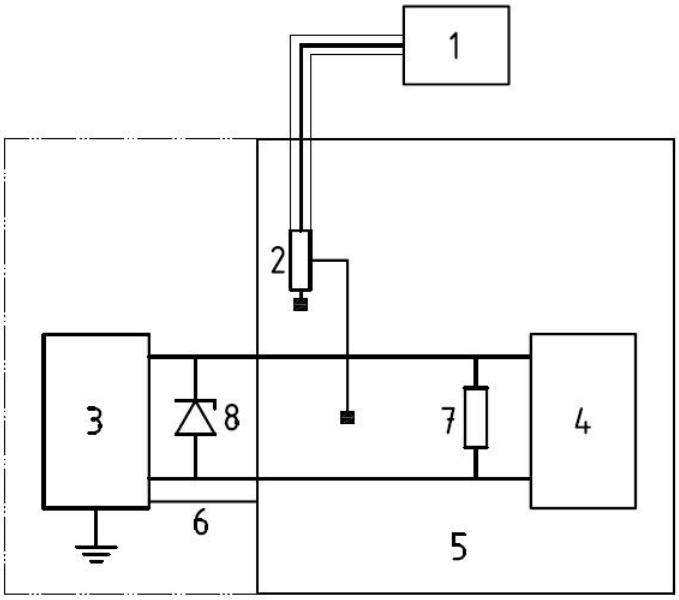
5.3 Transient Conducted Immunity

Result	:	**Pass**
Test Requirement	:	EN 50498
Test Method	:	Clause 6.8 2004/104/EC & ISO 7637-2
Test Voltage	:	DC 12V
Test Limit	:	Table 4 of EN50498

5.3.1 E.U.T. Operation

One mode with full load supplied by 12V battery.

5.3.2 Test Setup



Key

1. oscilloscope
2. voltage probe
3. test pulse generator with internal power supply resistance *R*i
4. EUT
5. ground plane
6. Ground connection
7. optional resistor (*R*v)a
8. optional diode bridge

a For simulation of vehicle system loading for load dump test pulses 5a and 5b only. If used, the value of *R*v shall be specified in the test plan (typical value 0,7 ohm to 40 ohm).

b For simulation of load dump waveform for alternator with centralized load dump suppression for pulse 5b only.

5.3.3 Transient Conducted Immunity Limits

Test pulse number	Immunity test level	Functional status for systems	
		Related to immunity-related functions	Not related to immunity-related functions
1	III	C	D
2a	III	B	D
2b	III	C	D
3a	III	A	D
3b	III	A	D
4	III	B for ESA which must be operational during engine start phases or C for other ESAs	D

Performance Criteria Description in A.4 of ISO 7637-2

Criterion A:

all functions of a device/system perform as designed during and after exposure to disturbance.

Criterion B:

all functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.

Criterion C:

one or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.

Criterion D:

one or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple “operator/use” action.

Criterion E:

one or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

5.3.4 Test Result

Product	Toolbox Heater	**Environmental Conditions**	24.2℃, 55 % RH, 101.5kPa
Model	XMZ-TB20	**Tested By**	QJR
Test mode	Working	**Test Result**	Pass

For 12V System:

Test pulse number	Immunity Test Level for 12V(min. voltage)	Number of pulses / duration	Required functional status	Functional status of the systems during the test
1	-75 V	5000	D	B
2a	+37V	5000	D	B
2b	+10V	10	D	A
3a	-112V	1h	D	B
3b	+75 V	1h	D	A
4	-6 V	1	D	A

6. PHOTOGRAPHS OF THE TEST CONFIGURATION

Transient Conducted Immunity

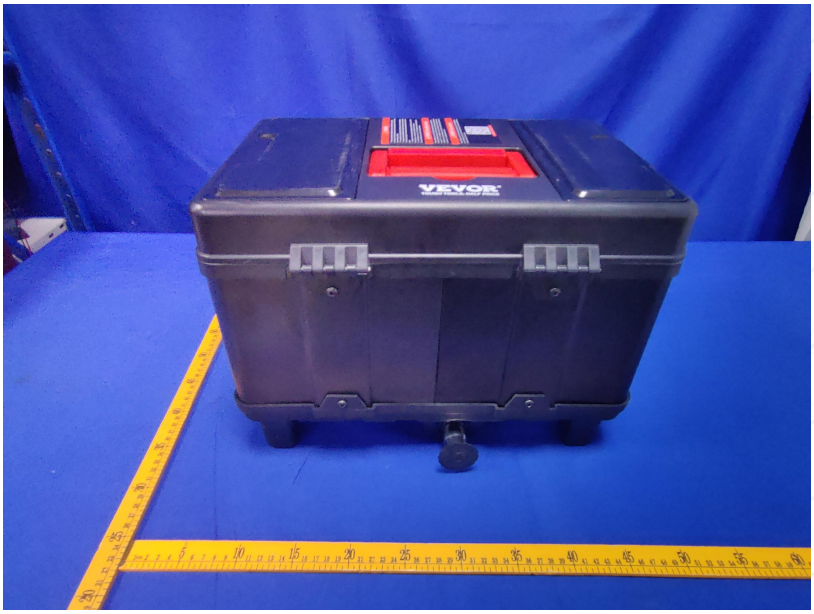


Transient Conducted Emissions



7. PHOTOGRAPHS OF EUT

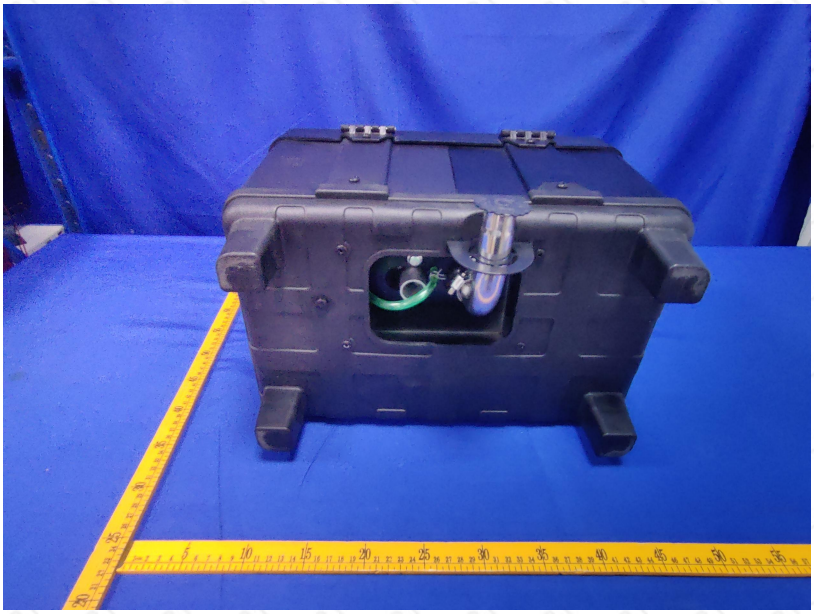









VEVOR







---------- The end of report ----------

中国认可
国际互认
检测
TESTING
CNAS L5772

Test Report

Report No.: PTC24062113502C-EN01 **Issue Date:** Jul. 22, 2024

Applicant: Renqiu xinmaizhong auto parts co.ltd

Address: No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, Cangzhou City, Hebei Province

The following merchandise was (were) submitted and identified by client as:

Sample Name:	Toolbox Heater
Model:	Main test model: XMZ-TB20 Series model: XMZ-TB10, XMZ-TB30, XMZ-TB40, XMZ-HTB1, XMZ-TB11, XMZ-TB22, XMZ-TB33, XMZ-TB44, XMZ-HTB2, XMZ-TB12, XMZ-TB13, XMZ-TB14, XMZ-TB15, XMZ-HTB3, XMZ-TB10 pro, XMZ-TB20 pro, XMZ-TB30 pro, XMZ-TB40 pro, XMZ-HTB1 pro, XMZ-TB10 max, XMZ-TB20 max, XMZ-TB30 max, XMZ-TB40 max, XMZ-HTB1 max
Manufacturer:	Renqiu xinmaizhong auto parts co.ltd
Address:	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, Cangzhou City, Hebei Province
Sample Received Date:	Jun. 25, 2024 & Jul. 19, 2024
Completed Date:	Jul. 22, 2024

Remark:The sample of No.19 was submitted at Jul. 19, 2024.

Test Requested: As specified by client, with reference to RoHS Directive 2011/65/EU and its subsequent amendments regulation EU No.2015/863.(Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr^{6+}), PBBs and PBDEs, Phthalates (DBP, BBP,DEHP,DIBP))

Conclusion(s): According to the test results of below test parameters, the tested materials of submitted samples complied with the requirements for RoHS Directive 2011/65/EU and its subsequent amendments regulation EU No.2015/863.

Test Result(s) and Test Method(s):Please refer to next page(s).

PRECISE TESTING & CERTIFICATION (GUANGDONG) CO., LTD.

Prepared by: Anne Checked by:Crystal Approved by: Miya

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Precise Testing & Certification (Guangdong) Co., Ltd. (PTC)

Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

Tel: 86-769-38808222 Fax: 86-769-38826111 http:// www.ptc-testing.com

Test Report

Test Result(s):

1.1) RoHS Directive 2011/65/EU -(Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr^{6+}) /PBBs/PBDEs)

Test Method: IEC 62321-3-1: 2013, IEC 62321-6:2015, analyzed by EDXRF & GC-MS.

No.	Materials Description	EDXRF Result(s) (mg/kg)					Chemical Result (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
1	Black plastic (body shell)	BL	BL	BL	BL	BL	--	PASS
2	Red plastic (handle)	BL	BL	BL	BL	BL	--	PASS
3	Black grey plastic (button switch)	BL	BL	BL	BL	BL	--	PASS
4	Silver metal (shaft, button switch)	BL	BL	BL	BL	--	--	PASS
5	Silver metal (tube)	BL	BL	BL	BL	--	--	PASS
6	Green transparent plastic (pipe)	BL	BL	BL	BL	BL	--	PASS
7	Black plastic (filter)	BL	BL	BL	BL	BL	--	PASS
8	Black plastic (screen box)	BL	BL	BL	BL	BL	--	PASS
9	Black plastic (can body)	BL	BL	BL	BL	BL	--	PASS
10	White plastic (can body)	BL	BL	BL	BL	BL	--	PASS
11	Black plastic (cover)	BL	BL	BL	BL	BL	--	PASS
12	Silver metal (nut, body)	BL	BL	BL	BL	--	--	PASS
13	Silver metal (long screw)	BL	BL	BL	BL	--	--	PASS
14	Silver metal with black coating (screw)	BL	BL	BL	BL	--	--	PASS
15	Silver metal with blue plating (screw)	BL	BL	BL	BL	--	--	PASS
16	Copper metal(wire)	BL	BL	BL	BL	--	--	PASS
17	Black plastic (terminal)	BL	BL	BL	BL	BL	--	PASS
18	Green PCB (PCB “YAH-A2100D-V0.1”)	BL	BL	BL	BL	IN	PBBs:N.D. PBDEs:N.D.	PASS
19	Silver solder (PCB "YAH-A2100D-V0.1", semi-product)	BL	BL	BL	BL	--	--	PASS
20	Black body (resistor, PCB “YAH-A2100D-V0.1”)	BL	BL	BL	BL	BL	--	PASS

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Test Report

No.	Materials Description	EDXRF Result(s) (mg/kg)					Chemical Result (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
21	Black body (triode, PCB "YAH-A2100D-V0.1")	BL	BL	BL	BL	BL	--	PASS
22	Black body (IC, PCB "YAH-A2100D-V0.1")	BL	BL	BL	BL	BL	--	PASS
23	Brown body (capacitor, PCB "YAH-A2100D-V0.1")	BL	BL	BL	BL	BL	--	PASS
24	Beige plastic (terminal, PCB "YAH-A2100D-V0.1")	BL	BL	BL	BL	BL	--	PASS
25	Dark gold metal (coil, PCB "YAH-A2100D-V0.1")	BL	BL	BL	BL	--	--	PASS
26	Silver metal with black coating (capacitor shell, PCB "YAH-A2100D-V0.1")	BL	BL	BL	BL	--	--	PASS
27	Black plastic (capacitor bottom, PCB "YAH-A2100D-V0.1")	BL	BL	BL	BL	BL	--	PASS
28	Black plastic with silver coating (rotary switch shell, PCB "YAH-A2100D-V0.1")	BL	BL	BL	BL	BL	--	PASS
29	Beige plastic (rotary switch base, PCB "YAH-A2100D-V0.1")	BL	BL	BL	BL	BL	--	PASS
30	Silver metal (rotary switch base, PCB "YAH-A2100D-V0.1")	BL	BL	BL	BL	--	--	PASS

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Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected
3. The result are obtained by EDXRF for primary screening, if the result exceeds the below limit (BL), and further chemical testing.
4. For EDXRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine.
5. As per client's requirement, the material No. 19 was tested in semi-product.

Screening limits in mg/kg for regulated elements in various matrices

Elements	Polymer	Metal	Composite Materials
Pb	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(500-3σ)<X<(1500+3σ)≤ OL
Cd	BL≤(70-3σ)<X<(130+3σ)≤ OL	BL≤(70-3σ)<X<(130+3σ)≤ OL	LOD<X<(150+3σ)≤OL
Hg	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(500-3σ)<X<(1500+3σ)≤ OL
Cr	BL≤(700-3σ)<X	BL≤(700-3σ)<X	BL≤(500-3σ)<X
Br	BL≤(300-3σ)<X	--	BL≤(250-3σ)<X

BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection

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Test Report

Chemical Testing - Detection Limit & 2011/65/EU Limit:

Name of Chemicals	Method Detection Limit (mg/kg)	2011/65/EU Limit (mg/kg)
Lead (Pb)	5	1000
Cadmium (Cd)	5	100
Mercury (Hg)	5	1000
Chromium VI (Cr VI)	Non-metal: 5 Metal: Negative	Non-metal: 1000 Metal: Negative
Polybromobiphenyls (PBBs) -Bromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromobiphenyl (NonaBB) -Decabromobiphenyl (DecaBB)	Each 5	Sum: 1 000
Polybromodiphenyl ethers (PBDEs) -Bromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	Each 5	Sum: 1 000

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Test Report

Test Result(s):

1.2) RoHS Directive 2011/65/EU and its subsequent amendments regulation EU No.2015/863 - (Phthalates DIBP,DBP, BBP, DEHP)

Method: IEC 62321-8: 2017, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit(s) (mg/kg)	1000	1000	1000	1000	
MDL (mg/kg)	50	50	50	50	
Material No.	Result (mg/kg)				
1+2+3	N.D.	N.D.	N.D.	N.D.	PASS
6+7+8	N.D.	N.D.	N.D.	N.D.	PASS
9+10+11	N.D.	N.D.	N.D.	N.D.	PASS
17+18+24	N.D.	N.D.	N.D.	N.D.	PASS
27+28+29	N.D.	N.D.	N.D.	N.D.	PASS
20+21+22	N.D.	N.D.	N.D.	N.D.	PASS
23	N.D.	N.D.	N.D.	N.D.	PASS

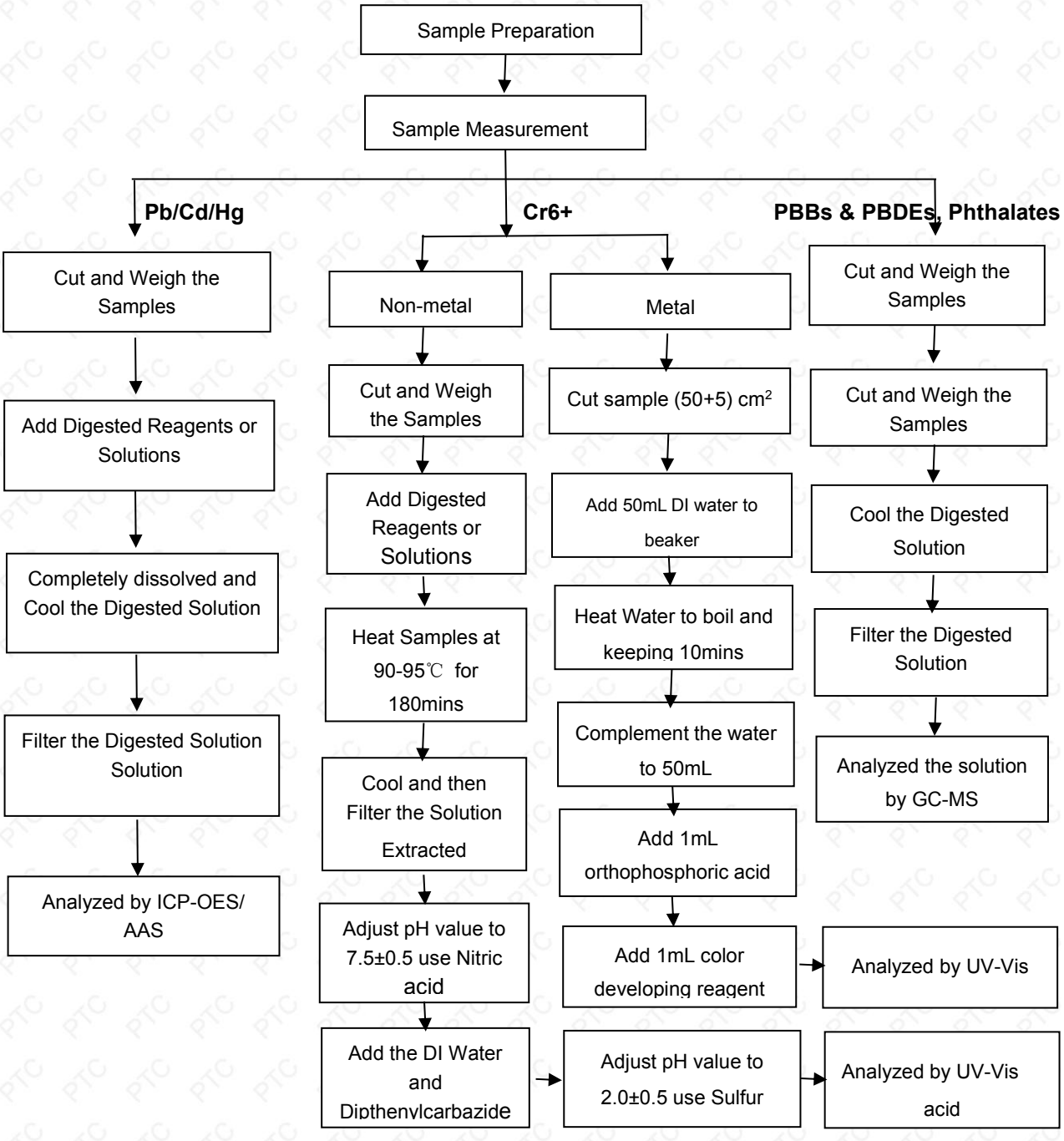
Note: 1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< MDL).
3. MDL = Method Detection Limit.

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Test Material List The following materials apply only to the samples submitted for phthalates testing.	
Material No.	**Description (Location)**
1	Black plastic (body shell)
2	Red plastic (handle)
3	Black grey plastic (button switch)
6	Green transparent plastic (pipe)
7	Black plastic (filter)
8	Black plastic (screen box)
9	Black plastic (can body)
10	White plastic (can body)
11	Black plastic (cover)
17	Black plastic (terminal)
18	Green PCB (PCB “YAH-A2100D-V0.1”)
20	Black body (resistor, PCB “YAH-A2100D-V0.1”)
21	Black body (triode, PCB “YAH-A2100D-V0.1”)
22	Black body (IC, PCB “YAH-A2100D-V0.1”)
23	Brown body (capacitor, PCB “YAH-A2100D-V0.1”)
24	Beige plastic (terminal, PCB “YAH-A2100D-V0.1”)
27	Black plastic (capacitor bottom, PCB “YAH-A2100D-V0.1”)
28	Black plastic with silver coating (rotary switch shell, PCB “YAH-A2100D-V0.1”)
29	Beige plastic (rotary switch base, PCB “YAH-A2100D-V0.1”)

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs , PhthalatesTesting Flow Chart



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Photo(s) of test Sample:



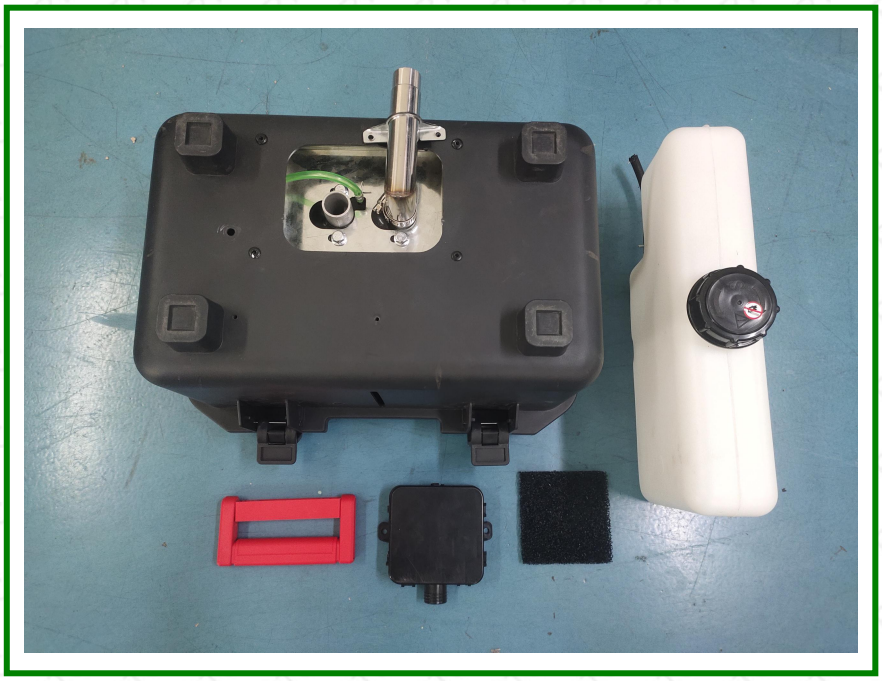


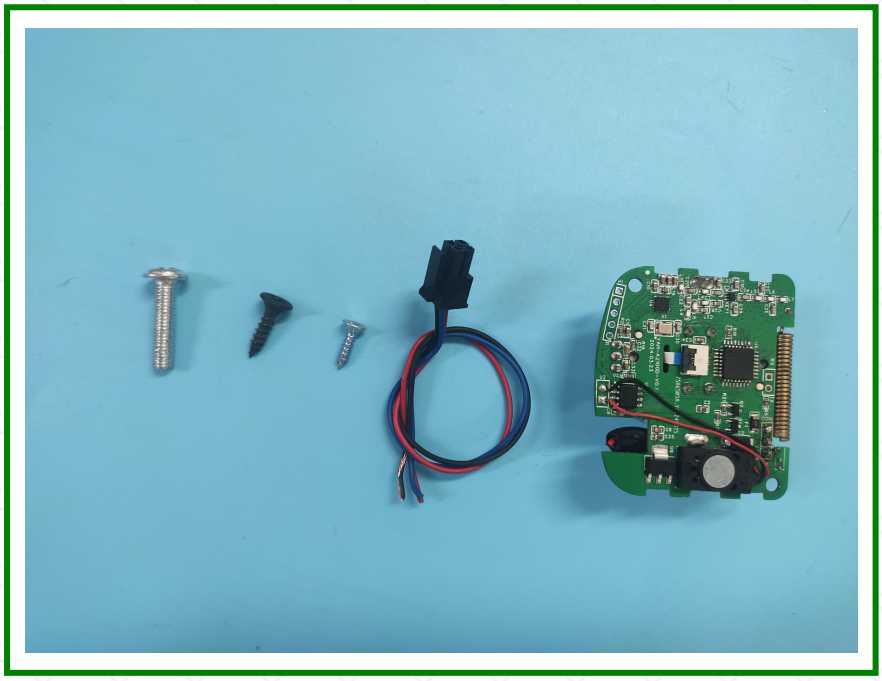
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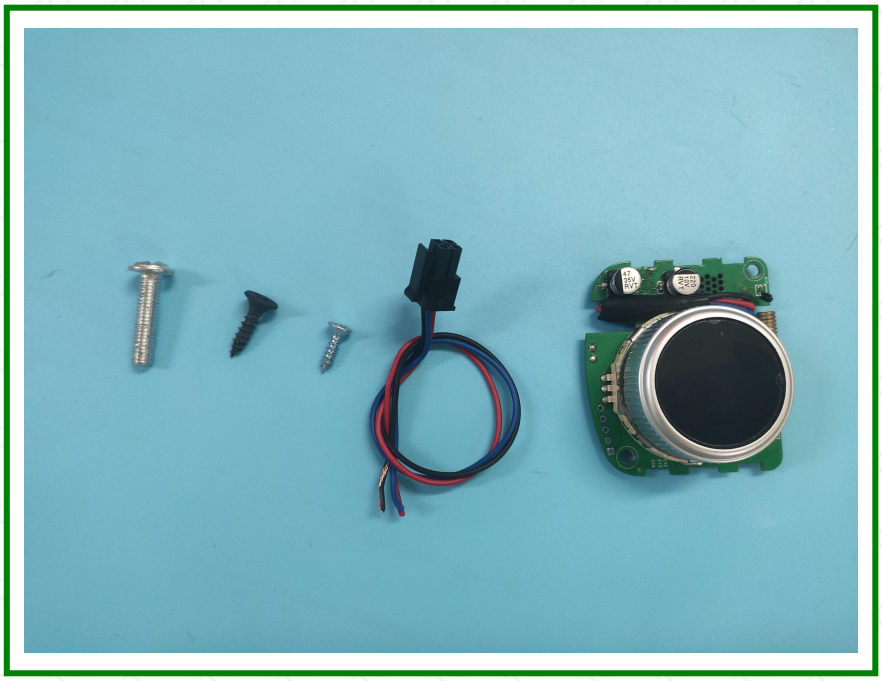


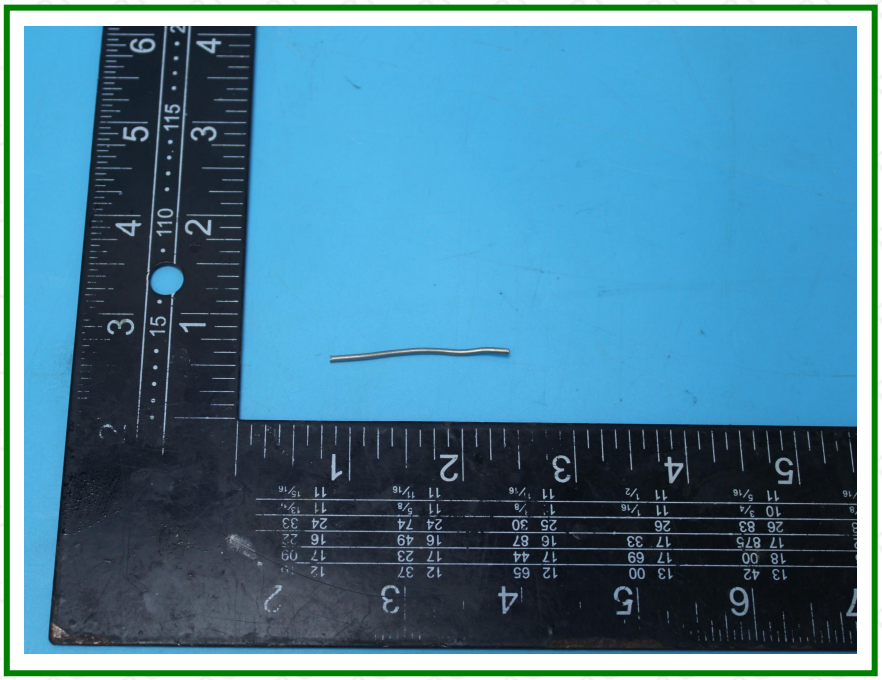
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End of Report

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Precise Testing & Certification (Guangdong) Co., Ltd. (PTC)

Description of the PTC24062113502C-EN01 test report

Photo(s) of other Sample:





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Repubblica di San Marino
Autorità per l'Omologazione
Republic of San Marino
Authority for Homologation

Via III Settembre, 99
47891 Dogana - Repubblica di San Marino

Comunicazione
Communication

E57	Concernente [2/] *Concerning* [2/]	**Il rilascio dell'omologazione** ***Approval granted*** ~~L'estensione dell'omologazione~~ ~~*Approval extended*~~ ~~Il rifiuto dell'omologazione~~ ~~*Approval refused*~~ ~~La revoca dell'omologazione~~ ~~*Approval withdrawn*~~ ~~La cessazione definitiva della produzione~~ ~~*Production definitively discontinued*~~

of a type of ~~electrical~~/electronic sub-assembly [(2)] with regard to Regulation no. 10.

Omologazione N. ***Approval No.***	**E57*10R07/01*2700**	**Estensione N.** ***Extension No.***	**00**

Marchio di omologazione Approval mark	E57 **10R-07 2700**

1. Make (trade name of manufacturer): Renqiu Xinmaizhong Auto Parts Co., Ltd
2. Type and general commercial description(s): Type: XMZ-TB10
   general commercial description(s):
   Diesel air heater
3. Means of identification of type, if marked on the ~~vehicle~~/component/~~separate technical unit~~ [(2)] Approval mark

3.1 Location of that marking: See information document

4.	Category of vehicle:	N/A
5.	Name and address of manufacturer:	Renqiu Xinmaizhong Auto Parts Co., Ltd No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China
6.	In the case of components and separate technical units, location and method of affixing of the approval mark:	See information document
7.	Address(es) of assembly plant(s):	Renqiu Xinmaizhong Auto Parts Co., Ltd No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China
8.	Additional information (where applicable):	See appendix below
9.	Technical Service responsible for carrying out the tests:	AUTOMOTIVE TECHNICAL SERVICE S.r.l. Via Consiglio dei Sessanta, 99 47891-DOGANA - Repubblica di San Marino
10.	Date of test report:	05/08/2026
11.	No. of test report:	ATS-SM-IR-10-37840
12.	Remarks (if any):	See appendix below
13.	Place:	Dogana – Repubblica di San Marino
14.	Date:	13/08/2026
15.	Signature:	AUTORITÀ PER L'OMOLOGAZIONE E57 Repubblica di San Marino Ing. Marco Conti Direttore Generale General Director
16.	The index to the information package lodged with the Approval Authority, which may be obtained on request, is attached.	
17.	Reasons for extension:	Not Applicable

(2) Strike out what does not apply.

Appendix to type-approval communication form No. E57*10R07/01*2700*00

concerning the type-approval of an ~~electrical~~/electronic sub-assembly under Regulation No. 10

1. Additional information:

1.1. Electrical system rated voltage:	DC 12V. ~~pos~~/neg ground(2)
1.2. This ESA can be used on any vehicle type with the following restrictions:	None
1.2.1. Installation conditions, if any:	None
1.3. This ESA can be used only on the following vehicle type:	Not Applicable
1.3.1. Installation conditions, if any:	Not Applicable
1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from Annex 9):	20-6000MHz
1.5. Laboratory accredited to ISO 17025 and recognised by the Approval Authority responsible for carrying out the tests:	GuangZhou ShunTai Quality Technical Service Co., Ltd. Room 101, Factory Building 1, No.63, Punan Road, Huangpu District, Guangzhou, Guangdong, China

2. Remarks: None

(2) Strike out what does not apply.

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Allegato *Enclosure*				
Al certificato di omologazione ECE N. *To ECE approval certificate No.*		**E57*10R07/01*2700*00**		
Indice del fascicolo di omologazione *Index to the information package*				
Data *Date of issue*	**13/08/2026**	**Data ultima modifica** *Last amendment date*	--	
1.	***Clausole di garanzia e istruzioni sul diritto di presentare ricorso*** *Collateral clauses and instruction on right to appeal*			
2.	**Rapporto(i) Finale di Ispezione No.** *Test report(s) No.*	**ATS-SM-IR-10-37840**	**Data** *Date*	**05/08/2026**
3.	**Scheda informativa N.** *Information document No.*	**XMZ-TB10-R10-00**	**Data** *Date*	**20/07/2026**
			Data ultima modifica *Last amendment date*	--

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Clausole di garanzia e istruzioni sul diritto di presentare ricorso

Clausole di garanzia

La produzione in serie deve essere esattamente conforme ai documenti di omologazione. Le variazioni di produzione in serie sono consentite solo con il consenso espresso del **Autorità per l'Omologazione**.

Le variazioni del nome della società, l'indirizzo e lo stabilimento di produzione, nonché una delle parti che hanno l'autorità alla consegna o eventuali rappresentanti nominati al momento del rilascio dell'omologazione, devono essere immediatamente comunicate al **Autorità per l'Omologazione**. La violazione di queste regole può portare al ritiro dell'omologazione ed inoltre può essere legalmente perseguita.

L'omologazione decade se viene restituita o ritirata o se il tipo omologato non è più conforme ai requisiti di legge. La revoca può essere fatta se non esistono più i requisiti richiesti per il rilascio e la continuazione dell'omologazione, se il titolare dell'omologazione viola gli obblighi dettati dall'omologazione, anche nel caso in cui gli obblighi derivino dalle condizioni assegnate all'interno dell'omologazione, o se è accertato che il tipo approvato non è conforme ai requisiti di sicurezza del traffico e di tutela dell'ambiente.

L'**Autorità per l'Omologazione** può verificare la corretta applicazione della delega conferita rilasciata nella presente omologazione, in qualsiasi momento. In particolare, questo include la verifica della produzione, che sia conforme, nonché le misure di controllo di conformità della produzione. Per questo, possono essere presi dei campioni dalla produzione. I dipendenti o rappresentanti dell'**Autorità per l'Omologazione** possono avere accesso senza ostacoli agli impianti di produzione e stoccaggio.

La delega conferita contenuta nella presente omologazione non è trasferibile. I diritti del marchio di terzi non sono interessati da questa omologazione.

Istruzione su diritto di ricorso

Questa omologazione è appellabile entro un mese dalla notifica. Il ricorso deve essere presentato per iscritto o come una domanda inviata all' **Autorità per l'Omologazione** - Via III Settembre, 99 - 47891 Dogana - Repubblica di San Marino.

********** **********

Collateral clauses and instruction on right to appeal

Collateral clauses

*The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the **Authority for Homologation**.*

*Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorized representative named when the approval was granted is to be immediately disclosed to the **Authority for Homologation**. Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.*

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

*The **Authority for Homologation** may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the **Authority for Homologation** may get unhindered access to the production and storage facilities.*

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

*This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Authority for Homologation** - Via III Settembre, 99 - 47891 Dogana - Repubblica di San Marino.*

E57*10R07/01*2700*00

Inspection Report

No. ATS-SM-IR-10-37840

Inspection concerning ~~vehicles~~ / components with regard to:

Uniform provisions concerning Electromagnetic Compatibility (EMC) for M, N, O, L vehicle categories

performed according to

ECE Regulation No. 10

as last amended by

07 series of amendments (supplement 1)

of the Economic Commission for Europe

Approval status	
ECE	Number of approval
	E57*10R07/01*2700*00

0. General information

0.1.	Make (trade name of manufacturer):	Renqiu Xinmaizhong Auto Parts Co., Ltd
0.2.	Type:	XMZ-TB10
0.2.1.	Variant(s):	See information document
0.3.	Name and address of manufacturer:	Renqiu Xinmaizhong Auto Parts Co., Ltd No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China
0.3.1	Name and address of manufacturer's authorized representative:	N/A
0.3.2.	Production plant(s) address(es):	Renqiu Xinmaizhong Auto Parts Co., Ltd No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China
0.4.	Information document:	
	No:	XMZ-TB10-R10-00
	Date of issue:	20/07/2026
	Date of last change:	--
0.5.	Position of the approval mark:	See Drawings of the ESA
0.6	Vehicle category(ies)	N/A
	(or, if not applicable, vehicle categories which the component(s) is (are) suitable for):	M, N, O
0.7	Reason(s) for extension of approval	N/A

1. Tested object(s)

1.1	Worst case configuration: (justification of the determination)	All supplementary models have the same functions, PCB layout, circuit schematics, and key components as the main model.The only differences between them are in appearance and color, which do not affect EMC test results. Model XMZ-TB10 was tested.
1.2	Description: ~~Vehicle~~ / Object	
1.2.1	Make:	Renqiu Xinmaizhong Auto Parts Co., Ltd
1.2.2.	Manufacturer:	Renqiu Xinmaizhong Auto Parts Co., Ltd
1.2.3.	Type / ~~Variant~~	XMZ-TB10
1.2.4.	~~Vehicle VIN number~~ / component identification:	
1.2.4.1	Place of marking:	See information document
1.2.5.	Main characteristics	See information document
1.3	Remarks	---

2. Test records

2.1	Conformity with the information document	SI / YES [X] NO [ ] NR / NA [ ]

2.2 Testing conditions

2.2.0	Prior to test commencement, the inspector verified that the test setup, including measuring equipment, calibration status, supply voltage and environmental conditions, was established and compliant with the requirements set forth in the applicable regulation.	Conform / ~~Not conform~~ / ~~Not applicable~~
2.2.1	Broadband electromagnetic interference generated by ESAs	
2.2.1.1	Method of measurement:	Measured by the method described in Annex 7 of ECE Regulation No. 10.
2.2.1.2	Results:	Conform / ~~Not Conform~~ (Test data see Appendix 2)
2.2.2.	Narrowband electromagnetic interference generated by ESAs	
2.2.2.1.	Method of measurement:	Measured by the method described in Annex 8 of ECE Regulation No. 10.
2.2.2.2.	Results:	Conform / ~~Not Conform~~ (Test data see Appendix 2)
2.2.3	Immunity of ESAs to electromagnetic radiation:	
2.2.3.1.	Method of measurement:	Measured by the method described in Annex 9 of ECE Regulation No. 10.
2.2.3.2.	Performance criteria:	ECE Regulation No. 10.
2.2.3.3.	Results:	Conform / ~~Not Conform~~ (Test data see Appendix 2)
2.2.4.	Immunity of ESAs to transient disturbances	

2.2.4.1.	Method of measurement:	Measured by the method described in Annex 10 of ECE Regulation No. 10.
2.2.4.2.	Results:	Conform / ~~Not Conform~~ (Test data see Appendix 2)
2.2.5.	Emission of transient conducted disturbances generated by ESAs	
2.2.5.1.	Method of measurement:	Measured by the method described in Annex 10 of ECE Regulation No. 10.
2.2.5.2.	Results:	Conform / ~~Not Conform~~ (Test data see Annex 2)
2.3	Equipment for measuring and testing:	See Appendix 4

The testing conditions provided for by the Regulation have been verified.

3. Other information

Place of inspection:	GuangZhou ShunTai Quality Technical Service Co., Ltd. Room 101, Factory Building 1, No.63, Punan Road, Huangpu District, Guangzhou, Guangdong, China	
Date of inspection:	23/07/2026	
Technical service representative:	**Senior Inspector** Lily Li	**Junior Inspector (if applicable)** N/A
Manufacturer's representative:	N/A	
Remarks:	None	

3.1 Appendix

1.	List of modifications	See the Appendix 1
2.	Test Data	See the Appendix 2
3.	Sample Photo(s)	See the Appendix 3
4.	List of main test equipment	See the Appendix 4

3.2 Enclosures

Information Folder	XMZ-TB10-R10-00 20/07/2026

4. Statement of conformity

The information document as given in paragraph 0.4 and the type described there are in compliance with the test specification mentioned above.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved and cover all variants / versions described in the information folder

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025 and EN ISO/IEC 17020 / R10-07 ECE/UN.

The tested object complies / ~~not complies~~ with the prescriptions of the R10-07 ECE/UN.

The inspection report comprises pages 1 to 21.

The test results relates only to the product tested.

I shall not be reproduced except in full, without written approval of the Technical Service.

Dogana, Repubblica di San Marino, 05/08/2026

Number of project and protocol	***Originality Check*** (*) **ATS-SM-PR-37840**	**Automotive Technical Service S.r.l.** ***Inspector*** (Lily Li) **Automotive Technical Service S.r.l.** ***Technical supervisor*** (Eng. Matteo Zivelonghi)	AUTOMOTIVE TECHNICAL SERVICE S.r.l. · Via Consiglio dei Sessanta, 99 · 47891 RSM ATS Technical Service RSMAO-01

(*) To check the originality of documents, scan the QR Code or connect to the site https://www.ats.sm/originality-control-atp-adr-tyapp/ and follow the instruction in it.

Appendix 1

List of modifications **~~Applicable~~ / Not Applicable** **Appendix 1**

More details for application of **Date : --**

Correction of : -

Modification of : -

Addition of : -

Deletion of : -

Appendix 2

Test data	Applicable / ~~Not Applicable~~	Appendix 2

1 Test object(s)

1.1.	Commercial description:	Diesel air heater
1.2.	Type:	XMZ-TB10
1.2.1.	Variants:	See information document
1.3.	Technical data of the tested ESA type	See information document
1.3.1.	Electrical system rated voltage:	DC 12V
1.3.2.	This ESA can be used on any vehicle type with the following restrictions:	N/A
1.3.3	Installation conditions:	N/A
1.3.4	This ESA can be used on the following vehicle types:	N/A
1.3.5	Installation conditions	N/A

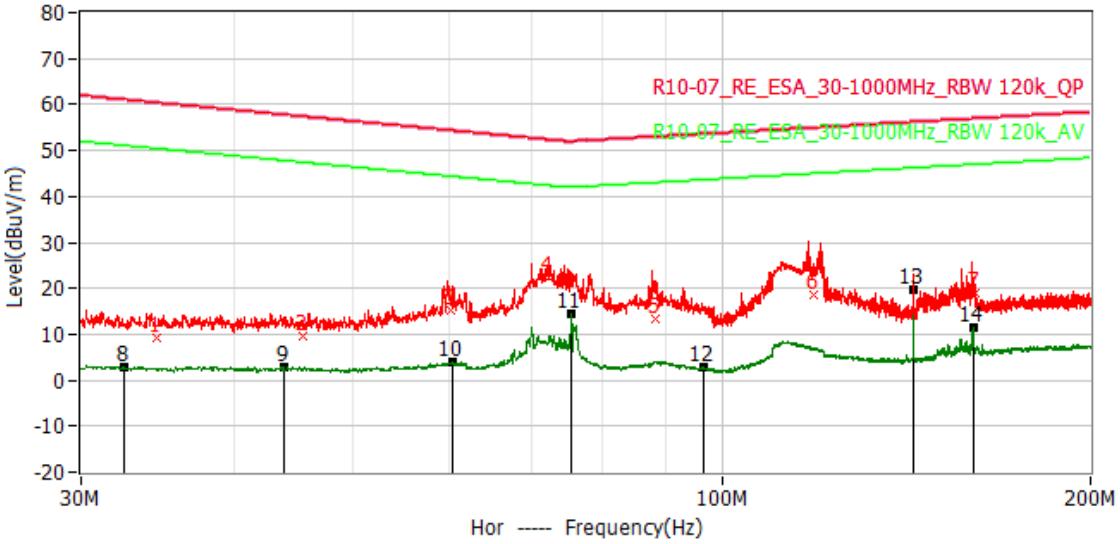
Test data **Appendix 2**

Test results (DC 12V)

1. Broadband / narrowband electromagnetic interference generated by ESAs

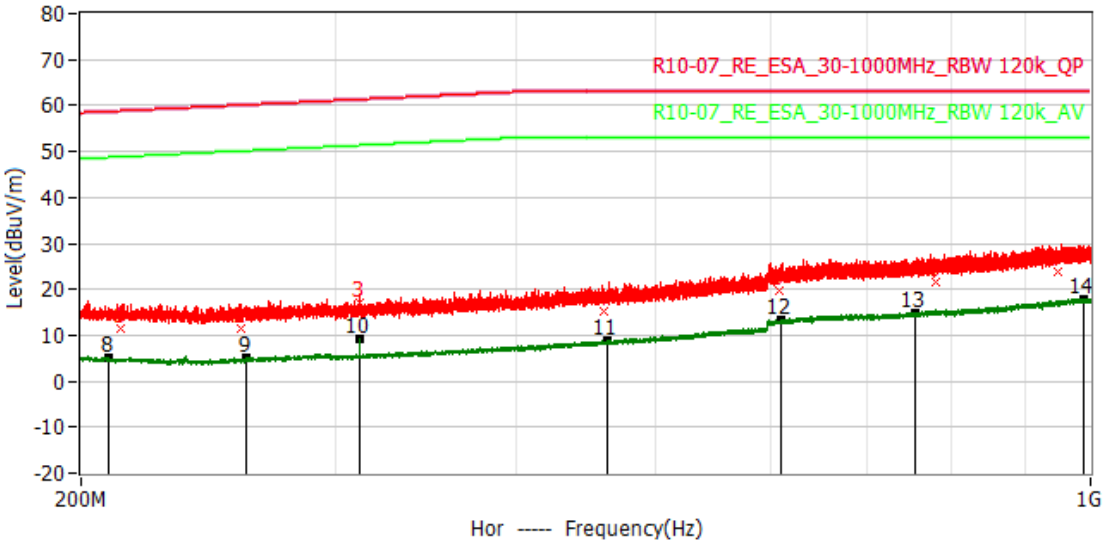
Radiated broadband electromagnetic Emissions	:	as shown in table 1
Radiated narrow band electromagnetic Emissions	:	as shown in table 2
Antenna position	:	horizontal and vertical
Rated voltage	:	DC 12V

Horizontal Polarity Test Result Diagram (Broadband and Narrow band)



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1	34.56MHz	60.46	9.32	-51.14	-4.38	13.70	QP	Hor
2	45.54MHz	57.44	9.49	-47.95	-3.91	13.40	QP	Hor
3	60.03MHz	54.43	15.05	-39.38	2.55	12.50	QP	Hor
4	72.21MHz	52.41	22.20	-30.21	10.10	12.10	QP	Hor
5	88.20MHz	53.07	13.23	-39.84	1.13	12.10	QP	Hor
6	118.80MHz	55.02	18.75	-36.27	4.95	13.80	QP	Hor
7	161.07MHz	57.02	19.02	-38.00	3.12	15.90	QP	Hor
8*	32.49MHz	51.13	2.83	-48.30	-10.86	13.69	AV	Hor
9*	43.86MHz	47.85	2.77	-45.08	-10.74	13.51	AV	Hor
10*	60.36MHz	44.37	3.89	-40.48	-8.61	12.50	AV	Hor
11*	75.39MHz	42.03	14.56	-27.47	2.69	11.87	AV	Hor
12*	96.66MHz	43.67	2.76	-40.91	-9.69	12.45	AV	Hor
13*	143.40MHz	46.26	19.57	-26.69	4.41	15.16	AV	Hor
14*	160.50MHz	47.00	11.51	-35.49	-4.36	15.87	AV	Hor

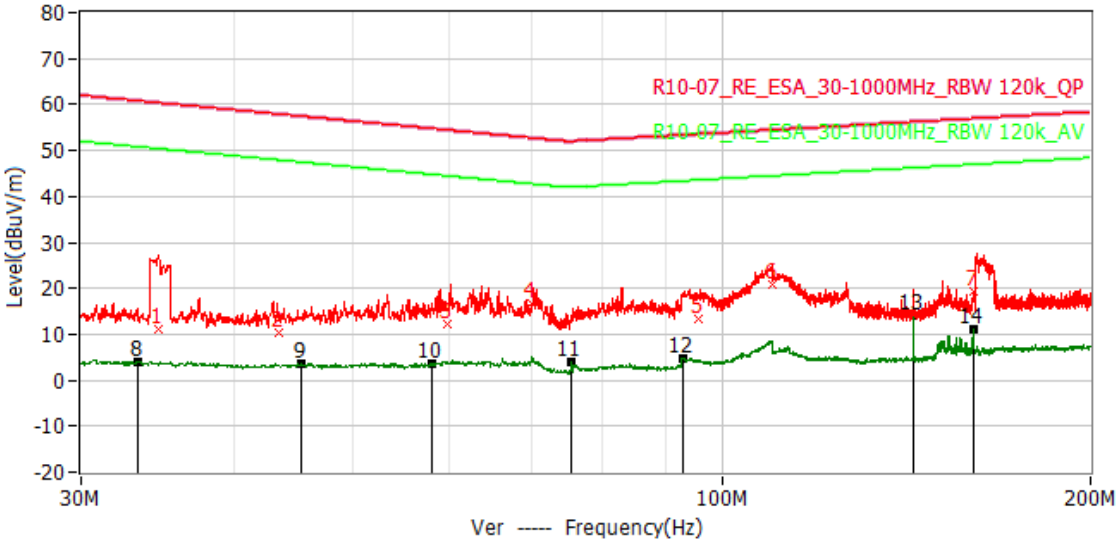
Inspection Report	ATS-SM-IR-10-37840
Of:	05/08/2026
Type:	XMZ-TB10
Manufacturer:	Renqiu Xinmaizhong Auto Parts Co., Ltd



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1	213.20MHz	58.87	11.46	-47.41	-3.74	15.20	QP	Hor
2	258.14MHz	60.12	11.44	-48.68	-3.76	15.20	QP	Hor
3	311.99MHz	61.37	17.22	-44.15	0.82	16.40	QP	Hor
4	460.07MHz	63.00	15.12	-47.88	-3.88	19.00	QP	Hor
5	608.63MHz	63.00	19.66	-43.34	-1.74	21.40	QP	Hor
6	781.73MHz	63.00	21.60	-41.40	-2.10	23.70	QP	Hor
7	948.56MHz	63.00	23.77	-39.23	-2.03	25.80	QP	Hor
8*	208.94MHz	48.73	5.14	-43.59	-10.14	15.28	AV	Hor
9*	260.54MHz	50.18	4.99	-45.19	-10.28	15.27	AV	Hor
10*	311.99MHz	51.37	9.34	-42.03	-7.05	16.39	AV	Hor
11*	462.47MHz	53.00	8.92	-44.08	-10.16	19.08	AV	Hor
12*	611.15MHz	53.00	13.38	-39.62	-8.08	21.46	AV	Hor
13*	757.04MHz	53.00	14.86	-38.14	-8.56	23.42	AV	Hor
14*	988.25MHz	53.00	17.97	-35.03	-8.22	26.19	AV	Hor

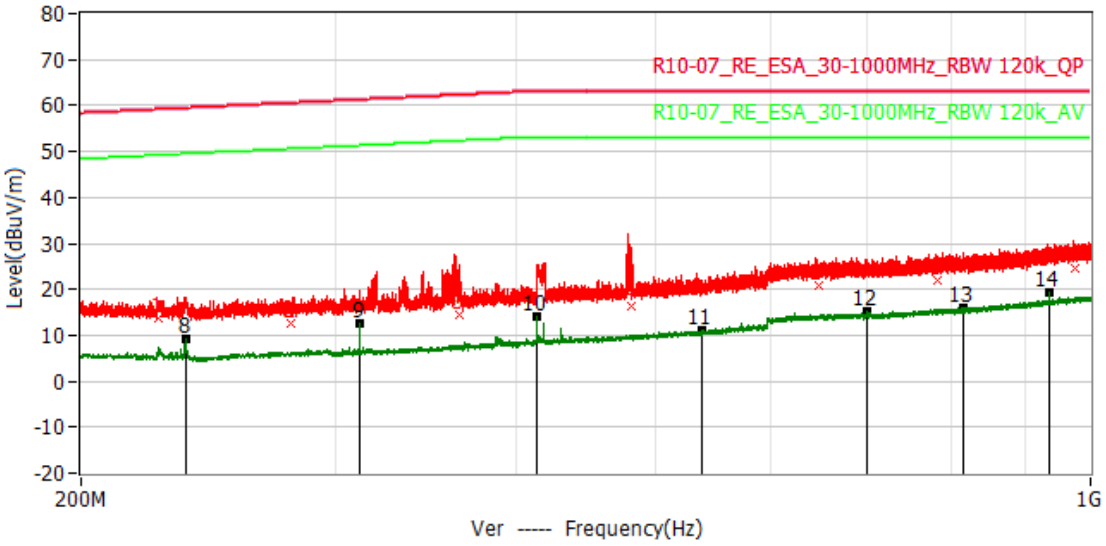
The ESA is deemed to conform to the requirements in respect of this frequency band according to 6.5.2.2 and 6.6.2.2. of Regulation 10.07/ECE.

Vertical Polarity Test Result Diagram (Broadband and Narrow band)



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1	34.74MHz	60.40	11.14	-49.26	-3.26	14.40	QP	Ver
2	43.47MHz	57.95	10.33	-47.62	-3.67	14.00	QP	Ver
3	59.67MHz	54.50	12.31	-42.19	-0.69	13.00	QP	Ver
4	70.05MHz	52.75	16.57	-36.18	3.87	12.70	QP	Ver
5	95.64MHz	53.60	13.15	-40.45	0.15	13.00	QP	Ver
6	109.83MHz	54.51	20.66	-33.85	7.26	13.40	QP	Ver
7	160.74MHz	57.01	19.16	-37.85	3.46	15.70	QP	Ver
8*	33.36MHz	50.84	3.93	-46.91	-10.48	14.41	AV	Ver
9*	45.36MHz	47.49	3.54	-43.95	-10.40	13.94	AV	Ver
10*	58.02MHz	44.80	3.74	-41.06	-9.40	13.14	AV	Ver
11*	75.39MHz	42.03	3.91	-38.12	-8.34	12.25	AV	Ver
12*	93.06MHz	43.42	4.84	-38.58	-8.03	12.87	AV	Ver
13*	143.40MHz	46.26	14.08	-32.18	-1.31	15.39	AV	Ver
14*	160.50MHz	47.00	11.10	-35.90	-4.53	15.63	AV	Ver

Inspection Report	ATS-SM-IR-10-37840
Of:	05/08/2026
Type:	XMZ-TB10
Manufacturer:	Renqiu Xinmaizhong Auto Parts Co., Ltd



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1	226.52MHz	59.26	13.88	-45.38	-1.82	15.70	QP	Ver
2	279.53MHz	60.65	12.77	-47.88	-3.73	16.50	QP	Ver
3	365.69MHz	62.41	14.46	-47.95	-3.54	18.00	QP	Ver
4	480.59MHz	63.00	16.36	-46.64	-3.54	19.90	QP	Ver
5	649.25MHz	63.00	20.67	-42.33	-1.83	22.50	QP	Ver
6	783.05MHz	63.00	21.92	-41.08	-2.08	24.00	QP	Ver
7	974.60MHz	63.00	24.51	-38.49	-1.79	26.30	QP	Ver
8*	236.60MHz	49.55	9.09	-40.46	-6.45	15.54	AV	Ver
9*	311.99MHz	51.37	12.53	-38.84	-4.61	17.14	AV	Ver
10*	413.24MHz	53.00	13.96	-39.04	-5.01	18.97	AV	Ver
11*	537.50MHz	53.00	10.94	-42.06	-9.71	20.65	AV	Ver
12*	699.38MHz	53.00	15.32	-37.68	-7.64	22.96	AV	Ver
13*	816.17MHz	53.00	15.91	-37.09	-8.48	24.39	AV	Ver
14*	935.96MHz	53.00	19.33	-33.67	-6.60	25.93	AV	Ver

The ESA is deemed to conform to the requirements in respect of this frequency band according to 6.5.2.2 and 6.6.2.2. of Regulation 10.07/ECE.

Test data **Appendix 2**

2. Immunity of ESAs to electromagnetic radiation

Test method : ISO 11452-2:2019; ISO 11452-4:2020

Measurement result:

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20-400	60mA	AM	150mm	/	Pass*
380-2000	30V/m	PM3	1000mm	Vertical	Pass*
2000-2700	10V/m	PM3	1000mm	Vertical	Pass*
2700-3100	10V/m	PM2	1000mm	Vertical	Pass*
3100-6000	10V/m	PM3	1000mm	Vertical	Pass*

Remark:

** no degradation of performance of 'immunity-related functions.*

3. Immunity of ESAs to transient disturbances

Test method : ISO 7637-2:2004 for pulse 4 and ISO 7637-2:2011 for pulses 1, 2a, 2b, 3a and 3b

Measurement result:

Test pulse	Test level	Number of pulse / test time	Burst cycle / pulse Repetition time	Required minimum function status*	Status of function true value (mode 1)	Result
1	-75V	500pulse	0.5s	Ⅲ	Ⅱ	Pass
2a	+37 V	500pulse	0.2s	Ⅰ	Ⅰ	Pass
2b	+10 V	10pulse	0.5s	Ⅱ	Ⅱ	Pass
3a	-112V	1h	90ms	Ⅰ	Ⅰ	Pass
3b	+75 V	1h	90ms	Ⅰ	Ⅰ	Pass
4	-6V	1pulse	/	B (for ESA which must be operational during engine start phases) C (for other ESA)	A	Pass

Remark:

** Class A: all functions of a device/system perform as designed during and after exposure to disturbance.*

Class B: all functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.

Class C: one or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.

Class D: one or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.

Class E: one or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

Class I: The function performs as designed during and after the test.

Class II: The function does not perform as designed during the test, but returns automatically to normal operation after the test.

Class III: The function does not perform as designed during the test and does not return to normal operation without a simple driver/passenger intervention, such as turning off/on the DUT, or cycling the ignition switch after the disturbance is removed.

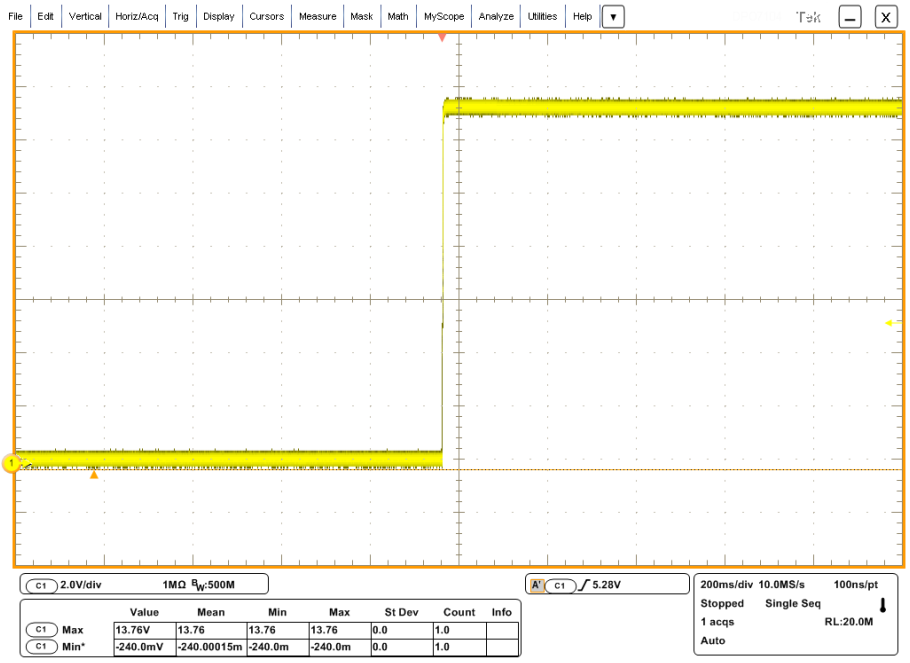
Test data **Appendix 2**

4. Emission of transient conducted disturbances generated by ESAs

Test method : ISO 7637-2: 2011

12V systems	Connection Disconnection Permanent	Polarity of pulse amplitude	Maximum allowed value for vehicles with 12V systems	Measured Pulse amplitude True Value
Slow	Switch off --> on	Positive	+75V	+0.26V
	Switch on -->off	Negative	-100V	-13.74V
Fast	Switch off --> on	Positive	+75V	0.00V
	Switch on -->off	Negative	-100V	-13.74V

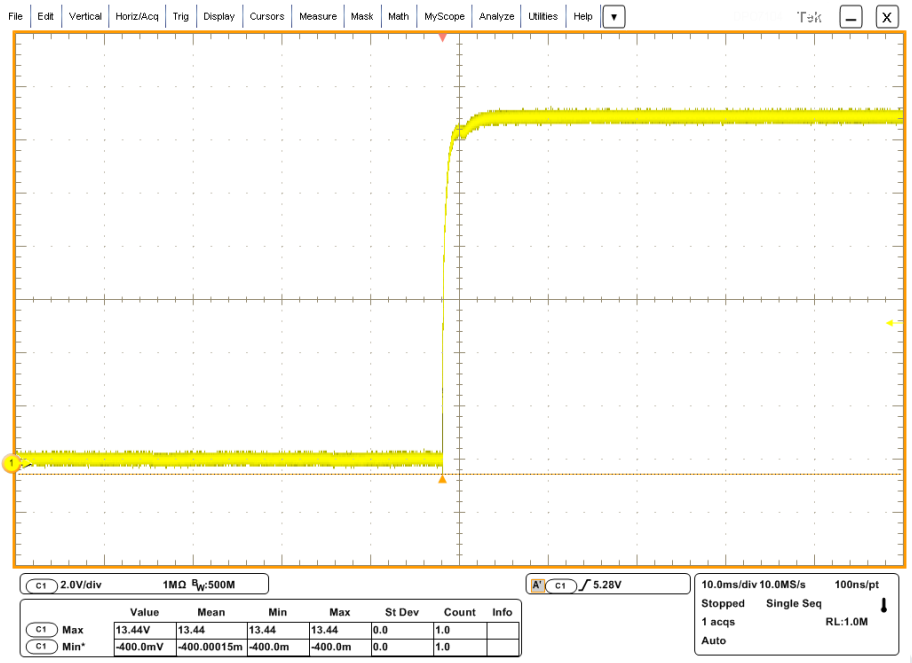
Slow Pulse: OFF-->ON Data Graph



Slow Pulse: ON-->OFF Data Graph



Fast Pulse: OFF-->ON Data Graph

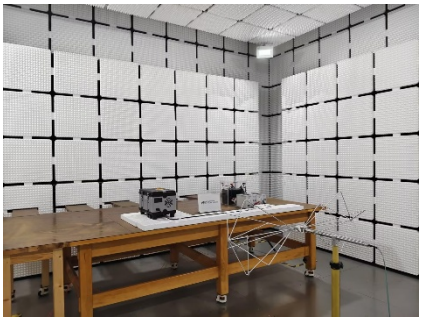


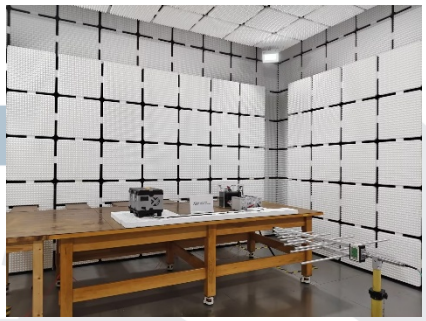
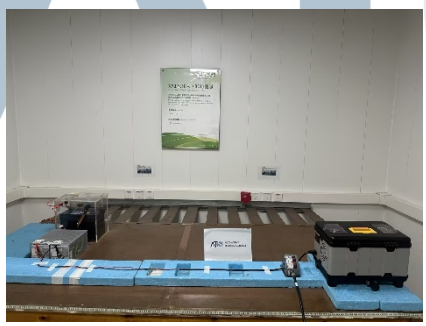
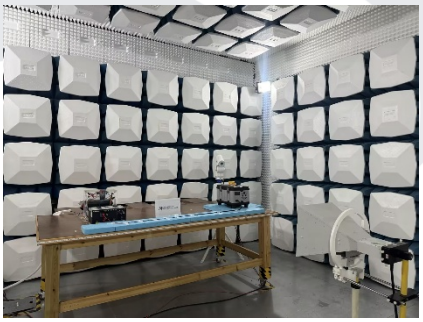
Fast Pulse: ON-->OFF Data Graph



Appendix 3

Sample photos **Applicable / ~~Not Applicable~~** **Appendix 3**



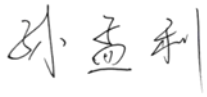
Appendix 4

List of main equipment **Applicable / ~~Not Applicable~~** **Appendix 4**

Equipment	Serial / Certificate No.	Calibration due*
ALSE ROOM	CN 2GB240719117044-0041B	18/08/2027
Injection probe	CN Q12630650010	03/06/2027
Artificial mains network	CN Q12630650008	03/06/2027
Artificial mains network	CN Q12630650009	03/06/2027
Scanning receiver	CN Q12630650021	03/06/2027
Signal data line fault simulator	CN J202512292928A-0009	07/01/2027
Receiver	CN J202512292928A-0001	07/01/2027
Oscilloscope	CN J202512292928A-0011	07/01/2027
Amplifier	CN 2GB25120252649-0004	01/12/2026
Supply Voltage Change Simulator	CN 2GB25120252649-0001	01/12/2026

All the instruments have been calibrated and are in the period of validity.

Information document no. XMZ-TB10-R10-00 relating to type-approval of an electronic subassembly with respect to electromagnetic compatibility (UN Regulation No. 10.07 to Supplement 1)

Type	:	XMZ-TB10
Manufacturer	:	Renqiu Xinmaizhong Auto Parts Co., Ltd
Authorized person	:	
Date	:	20/07/2026

INDEX

2 Index

3 General

5 Drawings of the ESA

7 Electronic block diagram

9 List of main components constituting the ESA

GENERAL

1. Make (trade name of manufacturer):Assistant Telematics
Renqiu Xinmaizhong Auto Parts Co., Ltd

2. Type: **XMZ-TB10**

Type XMZ-TB10 has variants as below:
TB10 WF, TB10 F, TB10 H, XMZ-TB20, XMZ-TB30, XMZ-TB40, XMZ-TB20PRO, XMZ-W-D1, XMZ-W-D2, XMZ-W-D3, XMZ-W-D4, XMZ-W-D5, XMZ-W-D6, XMZ-W-D7, TP G1, TP BW, TP PRO, TP W1, TP B2, TP B3, TP 1, TP B1

The above supplementary models have the same functions, PCB layout, circuit schematics, and key components as the main model.The only differences between them are in appearance and color.

General commercial description(s):
Diesel air heater

3. Means of identification of type, if marked on the component:
Approval mark

3.1 Location of that marking:
Stuck on the enclosure, See Drawings of the ESA.

4. Name and address of manufacturer:
Renqiu Xinmaizhong Auto Parts Co., Ltd
No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China

Name and address of authorised representative, if any:**N/A**

5. In the case of components and separate technical units, location and method of affixing of the approval mark:
Stuck on the enclosure, See Drawings of the ESA.

6. Address(es) of assembly plant(s):
Renqiu Xinmaizhong Auto Parts Co., Ltd
No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China

7. This ESA shall be approved as a component.

8. Any restrictions of use and conditions for fitting:
N/A

9. Electrical system rated voltage:
DC 12V, negative ground.

Appendix 1: Description of the ESA chosen to represent the type (electronic block diagram and list of main component constituting the ESA (e.g. make and type of microprocessor, crystal, etc.).
See electronic block diagram and list of main component constituting the ESA for details.

Appendix 2: Relevant test report(s) supplied by the manufacturer from a test laboratory accredited to ISO 17025 and recognized by the Type Approval Authority for the purpose of drawing up the type approval certificate.
N/A

Only applicable for charging systems: **N/A**

10. Charger:
N/A

11. Charging current:
N/A

12. Maximal nominal current (in each mode if necessary) :
N/A

13. Nominal charging voltage:
N/A

14. Basic ESA interface functions:
N/A

15. Minimum R_{sce} value (see paragraph 7.11. of this Regulation):
N/A

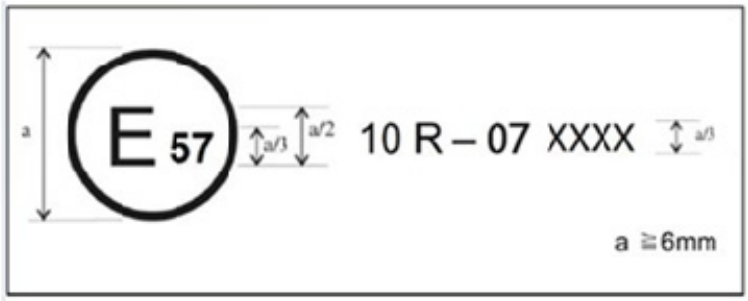
Information document No.	: XMZ-TB10-R10-00
Manufacturer	: Renqiu Xinmaizhong Auto Parts Co., Ltd
Regulation	: R10.07 to Supplement 1

Drawings of the ESA

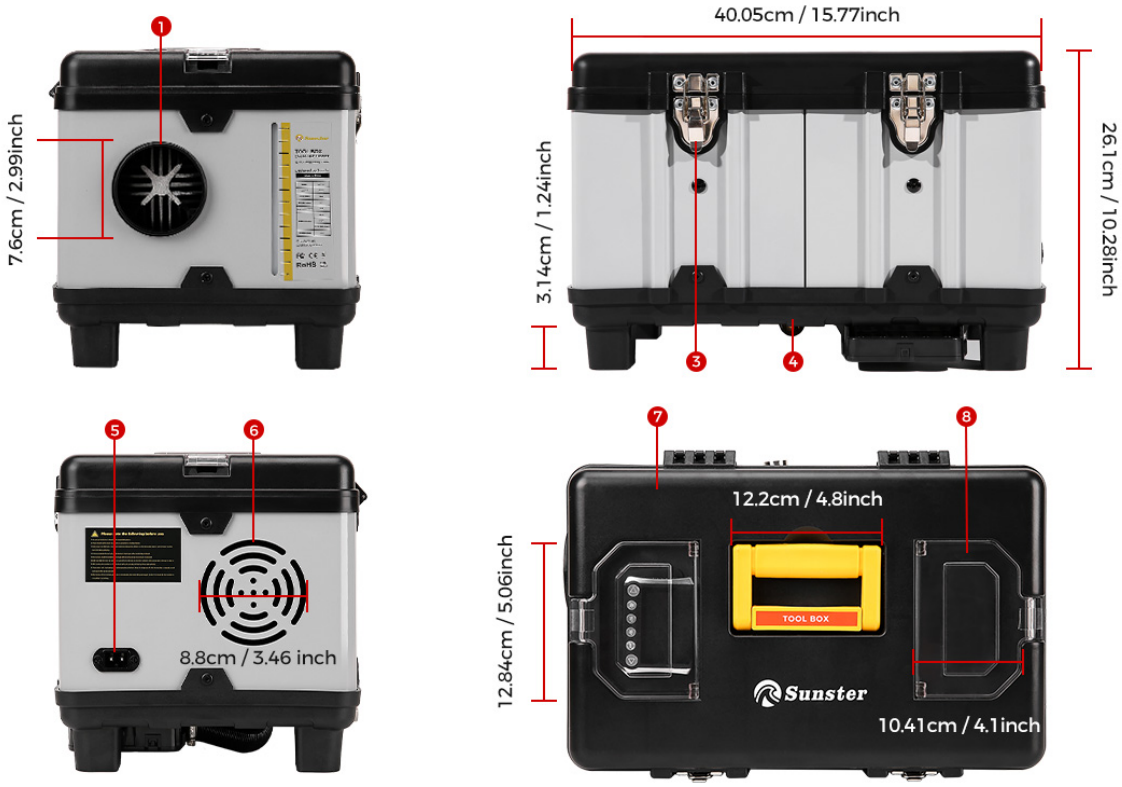
Location of the ECE approval mark



Example of approval mark

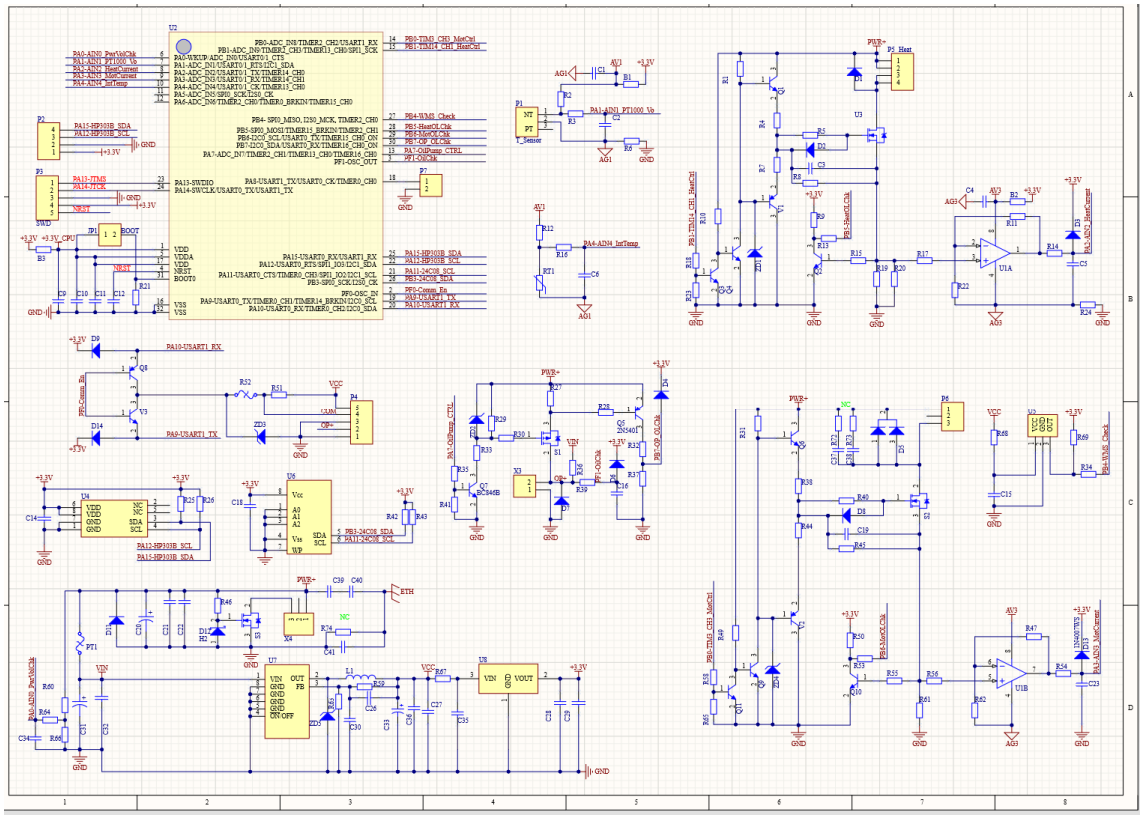


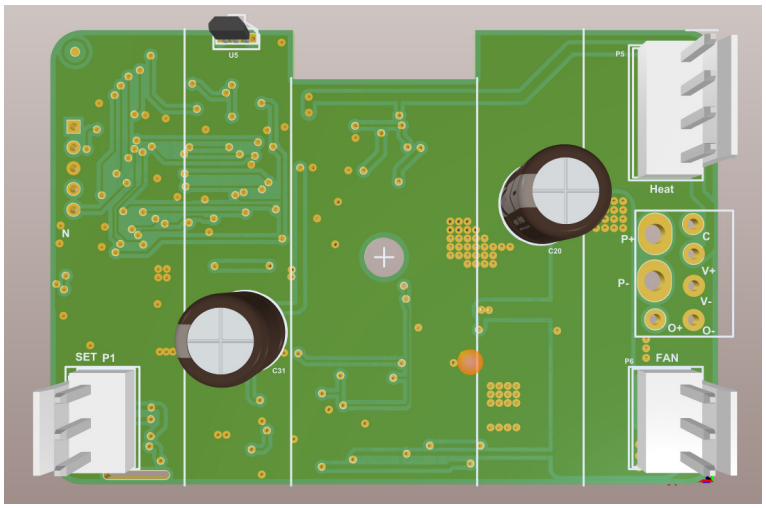
E57*10R07/01*2700*00

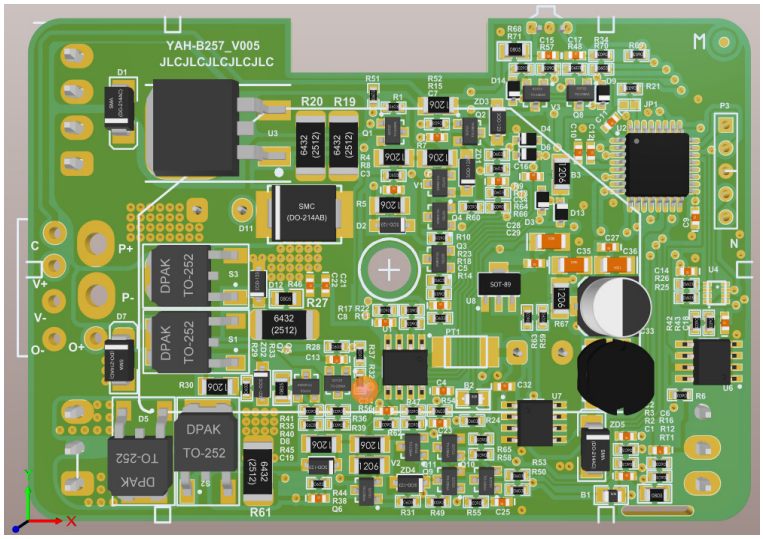


Unite: cm / inch

Electronic Block Diagram




Heat
SET P1
FAN
P+
P-
C
V+
V-
O+
O-
N


YAH-B257_V005
JLCJLCJLCJLCJLC
DPAK
TO-252
SMC
(DO-214AB)
6432
(2512)
R20
R19
R27
R61
P+
P-
V+
V-
O+
O-
C
N
M

List of main component constituting the ESA

Name	Specification	Qty.
Toolbox lid (black)	With handle and transparent flip-top window	1
Toolbox lower housing	Integrated housing, cooling fan opening	1
Yellow plastic handle assembly	Includes hinge and snap-on base	1
Transparent viewing window cover (2 pieces)	PC transparent flip cover	2
Box support feet	Rubber anti-slip feet	4
Metal lock on the box	Side buckle	2
Cooling fan mesh cover	Circular grille	1
AC power DC input socket	DC female connector	1
Nameplate warning sticker	English Warning Tag	1
Diesel heater core	12V/24V Universal Combustion Chamber Assembly	1
Built-in 6L plastic fuel tank	With oil level markings and fuel tank cap	1
Silent electromagnetic oil pump	22ml pulse oil pump	1
Oil pump shock absorber sleeve	Silicone shock absorbers	1
Intake air filter assembly	Air intake filter	1
Internal oil pipes and clamps	Diesel-resistant rubber hose	1 set
Motherboard driver wiring harness assembly	Internal wiring harness	1 set
LCD Controller	Bluetooth display	1
Wireless remote control	4-key RF remote control	1
Main control circuit board	Heater driver motherboard	1
DC power adapter	110~240V input, 12V DC output	1
Display extension control line	Display extension harness	1
Stainless steel silencer	Exhaust noise reduction	1
Metal exhaust pipe	Corrugated stainless steel exhaust pipe	1
High-temperature resistant fiberglass insulation sleeve	Encased exhaust pipe	1 meter
75mm Hot Air Corrugated Pipe	Hot air output duct	1
Stainless steel hose clamp ring	Secure the air ducts and exhaust pipes.	4 pieces
Oil filter (diesel filter)	filter element	1
Complete set of mounting screws and brackets	Fixed hardware	1 set
Instruction manual (Chinese and English)	User Manual	1 copy
Product outer color box	Printed box	1
Pearl cotton lining	Whole machine anti-vibration positioning	1 set

E57*10R07/01*2700*00

Repubblica di San Marino
Autorità per l'Omologazione
Republic of San Marino
Authority for Homologation

Via III Settembre, 99
47891 Dogana - Repubblica di San Marino

Comunicazione
Communication

E57	Concernente [2/] *Concerning [2/]*	**Il rilascio dell'omologazione** ***Approval granted*** ~~L'estensione dell'omologazione~~ ~~*Approval extended*~~ ~~Il rifiuto dell'omologazione~~ ~~*Approval refused*~~ ~~La revoca dell'omologazione~~ ~~*Approval withdrawn*~~ ~~La cessazione definitiva della produzione~~ ~~*Production definitively discontinued*~~

of a component type pursuant to Regulation No. 122

Omologazione N. ***Approval No.***	**E57*122R00/07*0263**	**Estensione N.** ***Extension No.***	**00**

Marchio di omologazione ***Approval mark***	E57 **122R – 00 0263**

Reason for extension: Not Applicable

SECTION I

GENERAL

1.1. Make (trade name of manufacturer): Renqiu Xinmaizhong Auto Parts Co., Ltd

1.2. Type: XMZ-TB10

1.3. Means of identification of type, if marked on the device [b/]: Approval mark

1.3.1.	Location of that marking:	See information document.
1.4.	Name and address of manufacturer:	Renqiu Xinmaizhong Auto Parts Co., Ltd No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China
1.5.	Location of the ECE approval mark:	See information document.
1.6.	Address(es) of assembly plant(s):	Renqiu Xinmaizhong Auto Parts Co., Ltd No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China

SECTION II

1.	Additional information: (where applicable):	
2.	Technical Service responsible for carrying out the tests:	**AUTOMOTIVE TECHNICAL SERVICE S.r.l.** Via Consiglio dei Sessanta, 99 47891 – DOGANA Repubblica di San Marino
3.	Date of test report:	05/08/2026
4.	Number of test report:	ATS-SM-IR-122-37834
5.	Remarks (if any):	None
6.	Place:	DOGANA – Repubblica di San Marino
7.	Date:	13/08/2026
8.	Signature:	AUTORITA' PER L'OMOLOGAZIONE E57 Repubblica di San Marino Ing. Marco Conti Direttore Generale General Director

9. The index to the information package lodged with the approval authority, which may be obtained on request, is attached.

(2) Strike out what does not apply (there are cases where nothing needs to be deleted, when more than one entry is applicable)

(b/) If the means of identification of type contains characters not relevant to describe the vehicle, component or separate technical unit types covered in this information document, such characters shall be represented in the documentation by the symbol "?" (e.g. ABC??123??)

Allegato *Enclosure*				
Al certificato di omologazione ECE N. *To ECE approval certificate No.*		**E57*122R00/07*0263*00**		
Indice del fascicolo di omologazione *Index to the information package*				
Data *Date of issue*	**13/08/2026**	**Data ultima modifica** *Last amendment date*	--	
1.	**Clausole di garanzia e istruzioni sul diritto di presentare ricorso** *Collateral clauses and instruction on right to appeal*			
2.	**Rapporto(i) Finale di Ispezione N.** *Inspection Report(s) No.*	**ATS-SM-IR-122-37834**	**Data** *Date*	**05/08/2026**
3.	**Scheda informativa N.** *Information document No.*	**XMZ-TB10-R122-00**	**Data** *Date*	**20/07/2026**
			Data ultima modifica *Last amendment date*	--

LIBERTAS
REPUBBLICA
DI SAN MARINO

Clausole di garanzia e istruzioni sul diritto di presentare ricorso

Clausole di garanzia

La produzione in serie deve essere esattamente conforme ai documenti di omologazione. Le variazioni di produzione in serie sono consentite solo con il consenso espresso dell'**Autorità per l'Omologazione**.

Le variazioni del nome della società, l'indirizzo e lo stabilimento di produzione, nonché una delle parti che hanno l'autorità alla consegna o eventuali rappresentanti nominati al momento del rilascio dell'omologazione, devono essere immediatamente comunicate all'**Autorità per l'Omologazione**. La violazione di queste regole può portare al ritiro dell'omologazione ed inoltre può essere legalmente perseguita.

L'omologazione decade se viene restituita o ritirata o se il tipo omologato non è più conforme ai requisiti di legge. La revoca può essere fatta se non esistono più i requisiti richiesti per il rilascio e la continuazione dell'omologazione, se il titolare dell'omologazione viola gli obblighi dettati dall'omologazione, anche nel caso in cui gli obblighi derivino dalle condizioni assegnate all'interno dell'omologazione, o se è accertato che il tipo approvato non è conforme ai requisiti di sicurezza del traffico e di tutela dell'ambiente.

L'**Autorità per l'Omologazione** può verificare la corretta applicazione della delega conferita rilasciata nella presente omologazione, in qualsiasi momento. In particolare, questo include la verifica della produzione, che sia conforme, nonché le misure di controllo di conformità della produzione. Per questo, possono essere presi dei campioni dalla produzione. I dipendenti o rappresentanti dell'**Autorità per l'Omologazione** possono avere accesso senza ostacoli agli impianti di produzione e stoccaggio.

La delega conferita contenuta nella presente omologazione non è trasferibile. I diritti del marchio di terzi non sono interessati da questa omologazione.

Istruzione su diritto di ricorso

Questa omologazione è appellabile entro un mese dalla notifica. Il ricorso deve essere presentato per iscritto o come una domanda inviata all'**Autorità per l'Omologazione** - Via III Settembre, 99 - 47891 Dogana - Repubblica di San Marino.

********** **********

Collateral clauses and instruction on right to appeal

Collateral clauses

*The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the **Authority for Homologation**.*

*Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorized representative named when the approval was granted is to be immediately disclosed to the **Authority for Homologation.** Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.*

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

*The **Authority for Homologation** may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the **Authority for Homologation** may get unhindered access to the production and storage facilities.*

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

*This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Authority for Homologation** – Via III Settembre, 99 - 47891 Dogana - Repubblica di San Marino.*

Inspection Report

No. ATS-SM-IR-122-37834

Inspection concerning ~~vehicles~~ / components with regard to:

Uniform provisions concerning the approval of vehicles of categories M, N and O with regard to their heating systems

~~Part I: Approval of a vehicle type with regard to its heating system~~

Part II: Approval of a heating system with regard to its operational safety

performed according to

ECE Regulation No. 122

as last amended by

00 series of amendments (supplement 07)

of the Economic Commission for Europe

Approval status	
	Number of approval
ECE	**E57*122R00/07*0263*00**

0. General information

0.1.	Make (trade name of manufacturer):	Renqiu Xinmaizhong Auto Parts Co., Ltd
0.2.	Type:	XMZ-TB10
0.2.1.	Variant(s):	See information document
0.3.	Name and address of manufacturer:	Renqiu Xinmaizhong Auto Parts Co., Ltd No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China
0.3.1	Name and address of manufacturer's authorized representative:	N/A
0.3.2.	Production plant(s) address(es):	Renqiu Xinmaizhong Auto Parts Co., Ltd No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China
0.4.	Information document:	
	No:	XMZ-TB10-R122-00
	Date of issue:	20/07/2026
	Date of last change:	--
0.5.	Position of the approval mark:	See information document
0.6	Vehicle category(ies)	N/A
	(or, if not applicable, vehicle categories which the component(s) is (are) suitable for):	M, N, O
0.7	Reason(s) for extension of approval	N/A

1. Tested object(s)

1.1	Worst case configuration: (justification of the determination)	All variants have the same energy, transfer medium and vehicle location, the differences among them are appearance and color, which do not affect the test results. Model XMZ-TB10 was tested.
1.2	Description: ~~Vehicle~~ / Object	
1.2.1	Make:	Renqiu Xinmaizhong Auto Parts Co., Ltd
1.2.2.	Manufacturer:	Renqiu Xinmaizhong Auto Parts Co., Ltd
1.2.3.	Type / ~~Variant~~	XMZ-TB10
1.2.4.	~~Vehicle VIN number~~ / component identification:	
1.2.4.1	Place of marking:	See information document
1.2.5.	Main characteristics	
	Heating Principle	See information document
	Gas pressure:	See information document
	Nominal Heat Input:	See information document
1.3	Remarks	None

2. Test records

2.1	Conformity with the information document	SI / YES	X	NO		NR / NA	

2.2 Testing conditions

2.2.0	Prior to test commencement, the inspector verified that the test setup, including measuring equipment, calibration status, supply voltage and environmental conditions, was established and compliant with the requirements set forth in the applicable regulation.	Conform / ~~Not conform~~ / ~~Not applicable~~

The testing conditions provided for by the Regulation have been verified.

2.3	Equipment for measuring and testing:	See Appendix 3

2.4.	**Test Results**	**Fulfilled?** Yes / No / N/A
Below items are from legislation		
6.2.	**Specifications: General**	
	the heated air entering the passenger compartment shall be no more polluted than the air at the point of inlet to the vehicle	Conform / ~~Not conform~~
	the driver and passengers, during road use, will not be able to come into contact with parts of the vehicle or heated air liable to cause burns	Conform / ~~Not conform~~
	the exhaust emissions from combustion heaters are within acceptable limits.	Conform / ~~Not conform / Not applicable~~
6.2.1.	Heating systems comply with the requirements of Annex 3	Conform / ~~Not conform / Not applicable~~
	Combustion heaters located outside the passenger compartment, using water as a transfer medium, are deemed to comply with Annexes 4 and 5.	~~Conform / Not conform /~~ Not applicable

Items	**Requirements**	**Results**
Annex 3	**REQUIREMENTS FOR WASTE HEATING SYSTEMS – AIR**	
2	the walls of the primary circuit of the heat exchanger must be leak tight at any pressure up to and including 2 bar	~~Conform / Not conform~~ / Not applicable
3	the walls of the primary circuit of the heat exchanger must not include any detachable component	~~Conform / Not conform~~ / Not applicable
4	the wall of the heat exchanger where the exchange of heat takes place must be at least 2 mm thick if made of non-alloy steels;	~~Conform / Not conform~~ / Not applicable
4.1.	in cases where other materials are used (including composite or coated materials), the thickness of the wall must be such as to ensure that the heat exchanger has the same service life as in the case referred to in paragraph 4.;	~~Conform / Not conform~~ / Not applicable
4.2.	if the wall of the heat exchanger where the exchange of heat takes place is enamelled, the wall where such enamel has been applied must be at least 1 mm thick and this enamel must be durable, leak tight and not porous;	~~Conform / Not conform~~ / Not applicable

5	the pipe conducting the exhaust gases must include a corrosion test zone at least 30 mm long, this zone being situated directly downstream of the heat exchanger, uncovered and easily accessible;	~~Conform / Not conform~~ / Not applicable
5.1.	the wall of this corrosion test zone must not be thicker than the pipes for the exhaust gases situated inside the heat exchanger and the materials and surface properties of this section must be comparable with those of these pipes;	~~Conform / Not conform~~ / Not applicable
5.2.	if the heat exchanger forms a single unit with the vehicle exhaust silencer, the external wall of the latter must be regarded as the zone complying with point 5.1 where any corrosion should occur.	~~Conform / Not conform~~ / Not applicable
6	In the case of waste heat heating systems using the cooling air of the engine for heating purposes, the conditions of paragraph 6.2. of this Regulation are considered satisfied without the use of a heat exchanger provided that the following conditions are satisfied:	~~Conform / Not conform~~ / Not applicable
6.1.	the cooling air which is used for heating purposes comes into contact only with surfaces of the engine which do not include any detachable part, and	~~Conform / Not conform~~ / Not applicable
6.2.	the connections between the walls of this cooling air circuit and the surfaces used for the transfer of heat are gastight and oil-resistant.	~~Conform / Not conform~~ / Not applicable

Items	**Requirements**	**Results**
Annex 4	**TEST PROCEDURE FOR AIR QUALITY**	
2.	In the case of type-approval of heaters as components the following test shall be carried out after the tests of Annexes 5, 6 and paragraph 1.3. of Annex 7.	Conform / ~~Not conform~~ / ~~Not applicable~~
2.1.	The primary circuit of the heat exchanger shall be subjected to a leakage test to ensure that polluted air cannot enter the heated air intended for the passenger compartment.	Conform / ~~Not conform~~ / ~~Not applicable~~
2.2	This requirement shall be considered to be fulfilled if, at a gauge pressure of 0,5 hPa, the leakage rate from the heat exchanger is less than or equal to 30 dm^3/h.	Conform / ~~Not conform~~ / ~~Not applicable~~ Result: 13 dm^3/h

Items	Requirements	Results
Annex 5	**TEST PROCEDURE FOR TEMPERATURE**	
1.	Operate the heater for one hour at maximum output in conditions of still air (wind speed ≤ 2 m/s), with all windows closed. If, however, having selected the maximum output the heater switches off automatically in less than an hour, the measurements may be made earlier. If the heated air is drawn from outside the vehicle the test shall be carried out at an ambient temperature of not less than 15 °C.	Conform ~~/ Not conform / Not applicable~~
2.	The surface temperature of any part of the heating system likely to come into contact with any driver of the vehicle during normal road use shall be measured with a contact thermometer. No such part or parts shall exceed a temperature of 70 °C for uncoated metal or 80 °C for other materials.	Conform ~~/ Not conform / Not applicable~~ Result: 37.1°C
2.1.	In the case of part or parts of the heating system behind the driver's seat, and in the case of overheating, the temperature shall not exceed 110 °C.	Conform ~~/ Not conform / Not applicable~~ Result: 36.9 °C
2.2.	In the case of vehicles of categories M1 and N, no part of the system likely to come into contact with seated passengers during normal road use of the vehicle, with the exception of the outlet grille, shall exceed a temperature of 110 °C.	~~Conform / Not conform /~~ Not applicable Result: --
2.3.	In the case of vehicles of categories M2 and M3, no part of the system likely to come into contact with passengers during normal road use of the vehicle shall exceed a temperature of 70 °C for uncoated metal or 80 °C for other materials.	~~Conform / Not conform /~~ Not applicable Result: --
3.	In the case of exposed parts of the heating system outside the passenger compartment, and in the case of overheating, the temperature shall not exceed 110 °C.	Conform /~~ Not conform / Not applicable~~ Result: 36.9°C
	The temperature of the heated air entering the passenger compartment shall not exceed 150 °C to be measured at the center of the outlet.	Conform ~~/ Not conform / Not applicable~~ Result: 42.3°C

Items	Requirements	Results
Annex 6	**TEST PROCEDURE FOR EXHAUST EMISSION OF COMBUSTION HEATERS**	
1.	Operate heater for one hour at maximum output in conditions of still air (wind speed ≤ 2 m/s) and an ambient temperature of 20 ± 10 °C. If, however, having selected the maximum output the heater switches off automatically in less than an hour, the measurements may be made before switch-off.	Conform ~~/ Not conform / Not applicable~~ Result: Pass
2.	Exhaust emissions	

Parameter	CO	NO_x	HC	Bacharach reference unit
	% vol	Ppm	ppm	--
Measured	0.0012	0	8	1
Limit	0.1	200	100	4

3.	The test shall be repeated in conditions equivalent to a vehicle speed of 100 km/h (or maximum design speed of the vehicle in cases where the maximum speed is less than 100 km/h). Under these conditions the CO value must not exceed 0.2 % vol. If the test has been carried out on the heater as a component, then it need not be repeated in the case of the vehicle type in which the heater is installed.	~~Conform / Not conform /~~ Not applicable Result: -- V: -- CO:--

Items	Requirements	Results
Annex 7	**ADDITIONAL REQUIREMENTS FOR COMBUSTION HEATERSADDITIONAL REQUIREMENTS FOR COMBUSTION HEATERS**	
1.	Operating and maintenance instructions shall be supplied with every heater and, in the case of heaters intended for the after-market, installation instructions shall also be supplied.	Conform / ~~Not conform / Not applicable~~
2.	Safety equipment shall be installed (either as part of the combustion heater or as part of the vehicle) to control the operation of every combustion heater in an emergency. It shall be designed such that, if no flame is obtained at start-up or if the flame goes out during operation, the ignition and switching times for the supply of fuel are not exceeded by four minutes in the case of liquid fuel heaters or, in the case of gaseous fuel heaters, one minute if the flame supervision device is thermoelectric or 10 seconds if it is automatic.	Conform / ~~Not conform / Not applicable~~
3.	The combustion chamber and the heat exchanger of heaters using water as a transfer medium shall be capable of withstanding a pressure of twice the normal operating pressure or 2 bar (gauge), whichever is greater. The test pressure shall be noted in the information document.	~~Conform / Not conform /~~ Not applicable
4.	The heater must have a manufacturer's label showing the manufacturer's name, the model number and type together with its rated output in kilowatts. The fuel type must also be stated and, where relevant, the operating voltage and gas pressure.	Conform / ~~Not conform / Not applicable~~
5.	Delayed shut-off of combustion air blowers	
5.1.	If a combustion air blower is fitted a delayed shut-off must be provided even in the event of overheating and in the event of interruption of the fuel supply.	Conform / ~~Not conform / Not applicable~~
5.2.	Other measures to prevent damage due to deflagration and exhaust corrosion can be applied if the manufacturer provides evidence to the satisfaction of the approval authority of their equivalent effect.	~~Conform / Not conform /~~ Not applicable
6.	Requirements for electrical supply	
6.1.	All technical requirements affected by the voltage must be within the voltage range of ± 16 per cent of the rated figure. However, if under voltage and/or over voltage protection is provided, the requirements shall be met at rated voltage and in the immediate vicinity of the cut-off points.	Conform / ~~Not conform / Not applicable~~

7.	Warning light	
7.1.	A clearly visible tell-tale in the operator's field of view shall inform when the combustion heater is switched on or off.	Conform / ~~Not conform / Not applicable~~

Items	**Requirements**	**Results**
Annex 8	**SAFETY REQUIRMENTS FOR LPG COMBUSTION HEATERS AND LPG HEATING SYSTEMS**	
2	**LPG HEATING SYSTEMS FOR STATIONARY USE ONLY IN MOTOR VEHICLES AND THEIR TRAILERS**	
2.1	The LPG-combustion heater and its supply system of an LPG heating system that is intended to be used only when the vehicle is not in motion, shall comply with the following requirements:	~~Conform / Not conform~~ / Not applicable
2.1.1	Permanent labels shall be attached on the compartment where the portable LPG cylinders are stored and in close proximity to the control device for the heating system, giving instructions that the LPG heater shall not be in operation and that the valve of the portable LPG cylinder shall be closed when the vehicle is in motion	~~Conform / Not conform~~ / Not applicable
2.1.2	The LPG combustion heater shall comply with the requirements of the harmonized standard EN 624:2000	~~Conform / Not conform /~~ Not applicable
2.1.3	The gaseous phase installation of the LPG heating system in a vehicle shall comply with the requirements of the harmonized standard EN 1949:2002	~~Conform / Not conform~~ / Not applicable

3. Other information

Place of inspection:	GuangZhou ShunTai Quality Technical Service Co., Ltd. Room 101, Factory Building 1, No.63, Punan Road, Huangpu District, Guangzhou, Guangdong, China	
Date of inspection:	20/07/2026	
Technical service representative:	**Senior Inspector**	**Junior Inspector (if applicable)**
	Lily Li	N/A
Manufacturer's representative:	N/A	
Remarks:	None	

3.1 Appendix

1.	List of modifications	See the Appendix 1
2.	Test Photo(s)	See the Appendix 2
3.	List of main test equipment	See the Appendix 3

3.2 Enclosures

Information Folder	XMZ-TB10-R122-00 20/07/2026

4. Statement of conformity

The information document as given in paragraph 0.4 and the type described there are in compliance with the test specification mentioned above.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved and cover all variants / versions described in the information folder.

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025 and EN ISO/IEC 17020 / R122-00 ECE/UN.

The tested object complies / ~~not complies~~ with the prescriptions of the R122-00 ECE/UN.

The inspection report comprises pages 1 to 15.

The test results relates only to the product tested.

It shall not be reproduced, except in full, without written approval of the Technical Service.

Dogana, Repubblica di San Marino 05/08/2026

Number of project and protocol	***Originality Check*** (*) **ATS-SM-PR-37834**	**Automotive Technical Service S.r.l.** ***Inspector*** (Lily Li) **Automotive Technical Service S.r.l.** ***Technical supervisor*** (Eng. Matteo Zivelonghi)	AUTOMOTIVE TECHNICAL SERVICE S.r.l. - Via Consiglio dei Sessanta, 99 - 47891 - RSM ATS Technical Service RSMAO-01

(*) To check the originality of documents, scan the QR Code or connect to the site https://www.ats.sm/originality-control-atp-adr-tyapp/ and follow the instruction in it.

Appendix 1

List of modifications **~~Applicable~~ / Not Applicable** **Appendix 1**

More details for application of **Date : --**

Correction of : --

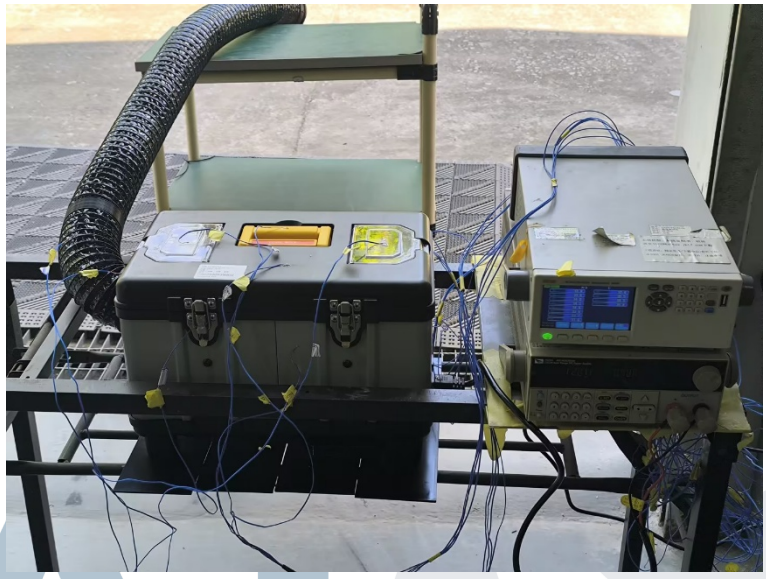
Modification of : --

Addition of : --

Deletion of : --

Appendix 2

Test Photo(s) **Applicable / ~~Not Applicable~~** **Appendix 2**





Appendix 3

List of main equipment **Applicable / ~~Not Applicable~~** **Appendix 3**

Equipment	Serial / Certificate No.	Calibration due*
Gas detectore	CN GA26022772368-0014	04/03/2027
Gas detectore	CN 1GA26022772368-0015	04/03/2027
Digital anemometer	CN 1GA26020369478-0009	07/02/2027
Temperature tester	CN 2GB26020369478-0019	05/02/2027

All the instruments have been calibrated and are in the period of validity.

INFORMATION DOCUMENT

Information document No. XMZ-TB10-R122-00 relating to type-approval of heating system with regard to its operational safety (ECE Regulation 122.00 to Supplement 07)

If the heating system or its component parts have electronic controls, information concerning their performance must be supplied

Type	:	XMZ-TB10
Manufacturer	:	Renqiu Xinmaizhong Auto Parts Co., Ltd
Authorized person	:	Sun Mengli
Date	:	20/07/2026

GENERAL

1. GENERAL

1.1. Make (trade name of manufacturer):
Renqiu Xinmaizhong Auto Parts Co., Ltd

1.2. Type:
XMZ-TB10

Variants:
TB10 WF, TB10 F, TB10 H, XMZ-TB20, XMZ-TB30, XMZ-TB40, XMZ-TB20PRO, XMZ-W-D1, XMZ-W-D2, XMZ-W-D3, XMZ-W-D4, XMZ-W-D5, XMZ-W-D6, XMZ-W-D7, TP G1, TP BW, TP PRO, TP W1, TP B2, TP B3, TP 1, TP B1, XMZ-TB10

Above variants have the same energy, transfer medium and vehicle location, the differences among them are appearance and color.

General commercial description(s):
Diesel air heater

1.3. Name and address of manufacturer:
Renqiu Xinmaizhong Auto Parts Co., Ltd
No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China

1.4. In the case of components, location and method of affixing of the ECE approval mark:
Product Label stuck on the Plastic Enclosure, See Drawings of the ESA.

1.5. Address(es) of assembly plant(s):
Renqiu Xinmaizhong Auto Parts Co., Ltd
No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China

1.6. Category of vehicle:
M, N, O

1.7. A detailed description of the heating system type with respect to its structure, dimensions, configuration and constituent materials.

1. Heating System Type

This equipment is a [Independent Combustion Air Heater] suitable for vehicles of types [M1/M2/M3/N1/N2/N3/O1/O2/O3], designed for cabin and carriage heating.

Heating method: The heat generated by fuel combustion is transferred to the air via a heat exchanger.
Heating system: Indirect air combustion warm-air system; diesel fuel burns in the combustion chamber, heats the external circulating air via a heat exchanger, the exhaust gases are discharged independently, and the heated air is delivered cleanly into the vehicle cabin;

2. Structure and Configuration

This product features an integrated toolbox structure, with the entire unit comprising six major subsystems: the combustion system, air blower system, fuel supply system, electronic control system, heat dissipation and exhaust system, and protective housing system.

① burning system

- Components: aluminum alloy die-cast heat exchange chamber, stainless steel combustion chamber, silicon nitride ceramic ignition plug, flame sensor
- Function: Enables diesel atomization combustion and heat exchange, serving as the heat source for the entire system.
- Working principle: The electromagnetic oil pump delivers a precise amount of diesel fuel into the combustion chamber for atomization; the ceramic ignition plug energizes the fuel-air mixture to ignite it, allowing for complete combustion within the combustion chamber; the high-temperature exhaust gas then flows through the outer wall of the aluminum alloy heat exchanger, transferring its heat to the air stream on the opposite side; upon completion of this heat exchange, the exhaust gases are discharged independently.

② Air Blowing System

- Components: Centrifugal air supply fan, side outlet diffuser, rear inlet grille, and warm air duct interface
- Function: Drives cold air through the heat exchanger to raise its temperature before delivering it into the cabin, thereby achieving a hot air circulation system.
- Operating Principle: The centrifugal fan draws ambient cold air through the rear intake port; as the air flows through the heat dissipation fin channels of the aluminum alloy heat exchanger, it is heated. The resulting clean hot air then exits through the side outlet ports and is delivered into the vehicle cabin via a duct system, ensuring that the entire process maintains complete isolation between the air and the combustion exhaust gases.

③ Fuel supply system

- Components: electromagnetic pulse oil pump, diesel filter element, oil-resistant hose
- Function: Precisely controls the fuel supply to ensure combustion efficiency and stability.
- Operating Principle: The main control board adjusts the pulse frequency of the oil pump based on the set temperature to achieve precise oil dosing; the diesel fuel is filtered through a filter element and then pressurized by the oil pump before being injected into the combustion chamber using a pulse metering method, which ensures high oil delivery accuracy, effective resistance to air blockage, and compatibility with various altitudes and temperature environments.

④ Electronic Control System

- Components: PCB main control circuit board, digital display and button control panel, temperature sensor, overheat protector, remote control receiver module
- Function: Overall system operation control, safety protection, and user interaction
- Operating Principle: The main control board collects air outlet temperature and combustion chamber temperature signals, automatically adjusts the oil pump's supply flow rate and the fan's rotational speed to achieve constant-temperature control; it features built-in multiple protection mechanisms—including automatic shutdown upon overheating, automatic fuel cutoff upon flameout, voltage abnormality protection, and overload fuse protection; it supports dual-mode operation via both panel buttons and wireless remote control.

⑤ Heat dissipation and exhaust system

- Components: stainless steel corrugated exhaust pipe, muffler, exhaust sealing joint
- Function: Discharges combustion exhaust gases, reduces exhaust noise, and ensures operational safety.
- Working Principle: The exhaust gases after combustion are first cooled by a heat exchanger, then discharged from the vehicle through a stainless steel exhaust pipe; a silencing tailpipe further reduces the exhaust noise. The exhaust system operates completely independently of the heating system, ensuring that the air inside the cabin remains clean.

⑥ Protective enclosure system

- Components: ABS engineering plastic toolbox housing, stainless steel locking mechanism, rubber shock-absorbing foot pads, transparent maintenance cover flap, and carrying handle.

- Features: Integrates protection, shock absorption, dustproofing, and waterproofing; facilitates easy handling and installation.
- Operating Principle: All internal components are fixedly installed within the tool box; the bottom rubber foot pads isolate the device from vehicle vibrations; the dual-sided flip-up design allows direct access to the control panel for operation and maintenance; it is designed to withstand harsh in-vehicle environments characterized by road bumps, dust, and splashing water.

3.size

Overall dimensions: Length [410 mm] × Width [270 mm] × Height [270 mm]

4.**Composition materials**

Part Name	Material Name	Material Grade & Specification (Material Grades and Specifications)
Main unit housing shell	ABS engineering plastic	ABS, injection molding, wall thickness: 3 mm, temperature resistance: －20° C to +80° C
Handheld handle	Modified polypropylene	PP-GF10, glass fiber reinforced, impact strength ≥ 25 kJ/m^2
Maintenance flip cover	Polycarbonate	PC 2805, wall thickness: 2 mm
Cabinet Locking Mechanism	stainless steel	SUS304, spring steel sheet, thickness: 1 mm
Floor mat	crude rubber	NR 60° Shore A, hardness 60±5, weather-resistant
Heat exchange chamber assembly	die-casting aluminium	ADC12: Integrated die-cast construction; thermal conductivity ≥ 96 W/(m • K)
Combustion chamber	High-temperature resistant stainless steel	SUS310S, wall thickness: 1.5 mm, temperature resistance ≥1100° C
ignition plug	silicon nitride ceramics	Si_3N_4, heating element, with temperature resistance ≥1200° C and service life ≥5,000 cycles

Part Name	Material Name	Material Grade & Specification (Material Grades and Specifications)
oil pump housing	die-casting aluminium	ADC10, surface anodized treatment
Oil pump valve body	stainless steel	SUS304, precision machining
Silent exhaust pipe	stainless steel	SUS304, bellows, diameter 25 mm, wall thickness 0.3 mm
Wind Turbine Impeller	Fiber-reinforced nylon	PA66-GF30,30% glass fiber reinforced, dynamic balancing grade G6.3
Wind Turbine Impeller Casing	galvanized steel plain sheet	SECC, thickness: 0.8 mm, surface powder-coated
Main control circuit board	Fiberglass epoxy board	FR-4, thickness: 1.6 mm, copper foil thickness: 1 oz
Panel Buttons	silica gel	Silicone rubber, Shore hardness: 50±5; temperature resistance: －40° C to +150° C
temperature sensor	Stainless steel probe	SUS304, NTC 10 kΩ, B value: 3950 K
Power connector	Nylon + Copper	PA66 enclosure, tin-plated copper terminals, waterproof rating: IP65
Internal wiring harness	Silicone tubing	Silicone rubber insulation, copper core, temperature resistance: 200° C
Diesel fuel line	Nitrile rubber	NBR, inner diameter: 6 mm, wall thickness: 2 mm, oil-resistant and weather-resistant.
sheet gasket	Graphite composite gasket	Enhanced graphite, temperature resistance ≥600° C, thickness: 1.5 mm
O-ring seal	Fluororubber	FKM － oil-resistant and temperature-resistant up to 200° C
Pipe clamp and coupling	stainless steel	SUS304, bandwidth: 12 mm, thickness: 0.6 mm

Part Name	Material Name	Material Grade & Specification (Material Grades and Specifications)
Heating duct	Aluminum foil composite fabric	Aluminum foil + glass fiber, diameter 76 mm, temperature resistance: －30° C to +120° C
stationary barrier	galvanized steel plain sheet	SECC sheet, thickness: 2 mm, surface galvanized.
Installation screws	galvanized steel	Grade 4.8, galvanized and passivated treatment

2. COMBUSTION HEATER

2.1. Make (trade name of manufacturer):
Renqiu Xinmaizhong Auto Parts Co., Ltd

2.2. Type:
XMZ-TB10

Variants:
TB10 WF, TB10 F, TB10 H, XMZ-TB20, XMZ-TB30, XMZ-TB40, XMZ-TB20PRO, XMZ-W-D1, XMZ-W-D2, XMZ-W-D3, XMZ-W-D4, XMZ-W-D5, XMZ-W-D6, XMZ-W-D7, TP G1, TP BW, TP PRO, TP W1, TP B2, TP B3, TP 1, TP B1, XMZ-TB10

Above variants have the same energy, transfer medium and vehicle location, the differences among them are appearance and color.

General commercial description(s):
Diesel air heater

2.3. Means of identification of type, if marked on the heating system:
Approval mark

2.4. Location of that marking:
Product Label stuck on the Plastic Enclosure, See Drawings of the ESA.

2.5. Name and address of manufacturer:
Renqiu Xinmaizhong Auto Parts Co., Ltd
No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China

E57*122R00/07*0263*00

2.6. Address(es) of assembly plant(s):
Renqiu Xinmaizhong Auto Parts Co., Ltd
No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China

2.7. Test pressure (in the case of a combustion heater fuelled by liquefied petroleum gas or similar, the pressure applied at the gas inlet connector of the heater):
Not Applicable

2.8. Detailed description, layout drawings and mounting description of the combustion heater and all its components:
See Annex 1

Fuel type:
diesel oil

Vehicle location:
Passenger compartment

Transfer medium:
Air

Installation requirements:
The TB10 diesel air heater 12V 8KW features a built-in CO alarm, ensuring your safety during use. The alarm continuously monitors the area for carbon monoxide levels and promptly alerts you if it detects a threat. The heater can turn off automatically if the system detects a high CO level. This system gives you peace of mind while you sleep, work, or relax.

This heater is even safer than that. With this kit, you can keep diesel from spilling with the leakproof fuel tank cap and fuel level indicator. If the heater gets too hot, the overheat safety will turn it off. The heater is reliable for use in cars, cabins, sheds, and even while camping, thanks to its useful features.

Wide Compatibility with DC 12V Power Supply for Vehicle
This diesel air heater 12v 8kw can be used however you want, as it works with 12V power source. It comes with many ports, so it's easy and quick to set up. It can be plugged into your car's battery, a wall outlet, or an outside power point. It is plug-and-play and requires very little setup, so that you can use it almost anywhere.

A lot of the time, the heater works really well. It can be used in cars, trucks, RVs, tractors, cottages, sheds, and while camping. This heater quickly warms up and keeps the space warm. It keeps your surroundings warm wherever you are, which is why it's so helpful in cold areas.

8kW Heating Power with 0.18–0.4L/h Diesel Consumption

This electric air heater runs on 12 volts and delivers 8 kilowatts, quickly warming small areas. It warms your space quickly and efficiently while using just 0.18 to 0.4 liters of diesel per hour. This way, you can stay calm without paying a lot for gas. The warmer needs around one gallon of fuel for one night to keep your car, house, or tent warm and cozy.

Even when it's cold outside, the heater always works. Each drop of gasoline gives it more heat because it burns so efficiently (over 96%). During the winter, you can rely on it to keep your place comfortable and safe with steady heat. You can use it for cars, camping, or small areas that require immediate heating and long-term warmth.

Diesel Air Heater 12V 8KW with Cast Aluminum Body and Ceramic Igniter for Rapid Heating

This 12V 8KW diesel air heater is tough thanks to its sturdy cast-metal base and ceramic igniter. Because they last a long time, you don't have to worry about damaging them when you use them in cars, camps, or other outdoor places.

The heater heats up quickly thanks to the ceramic igniter, so that it can blow warm air right away. Great things will always happen if you use high-quality materials and smart planning. You can always count on this heater to keep you warm, whether you're moving, camping, or living in a cabin.

Quiet Operation at ≤75dB for Comfortable Sleep or Work

You will like how quiet the VEVOR 12V 8KW diesel air heater is, even at full blast. The super-quiet filter and fuel pump keep noise below 75dB, so you can work, sleep, or just chill out without any problems. This keeps you warm without making you hear loud noises.

The heater works easily and quietly, even though it heats up very quickly. It works great in RVs, cabins, trucks, and small spaces that need to stay warm without background noise. There is a quiet, comfortable place where you can stay warm on cold nights or early mornings.

Smart Control via Bluetooth App, Remote, and Display Panel

You can handle the VEVOR diesel air heater 12V 8KW in several ways. You can use your phone's Bluetooth app, the remote control that comes with it, or the screen. This lets you adjust the temperature, check the heater's status, and control the settings without standing next to it.

The smart control system makes it easy and flexible to heat your home. From anywhere close, you can turn the heater on or off, change the temperature, or keep

an eye on how it's working. With this modern control option, you can easily enjoy a warm, comfortable space, whether you're in your car, a cabin, or outside.

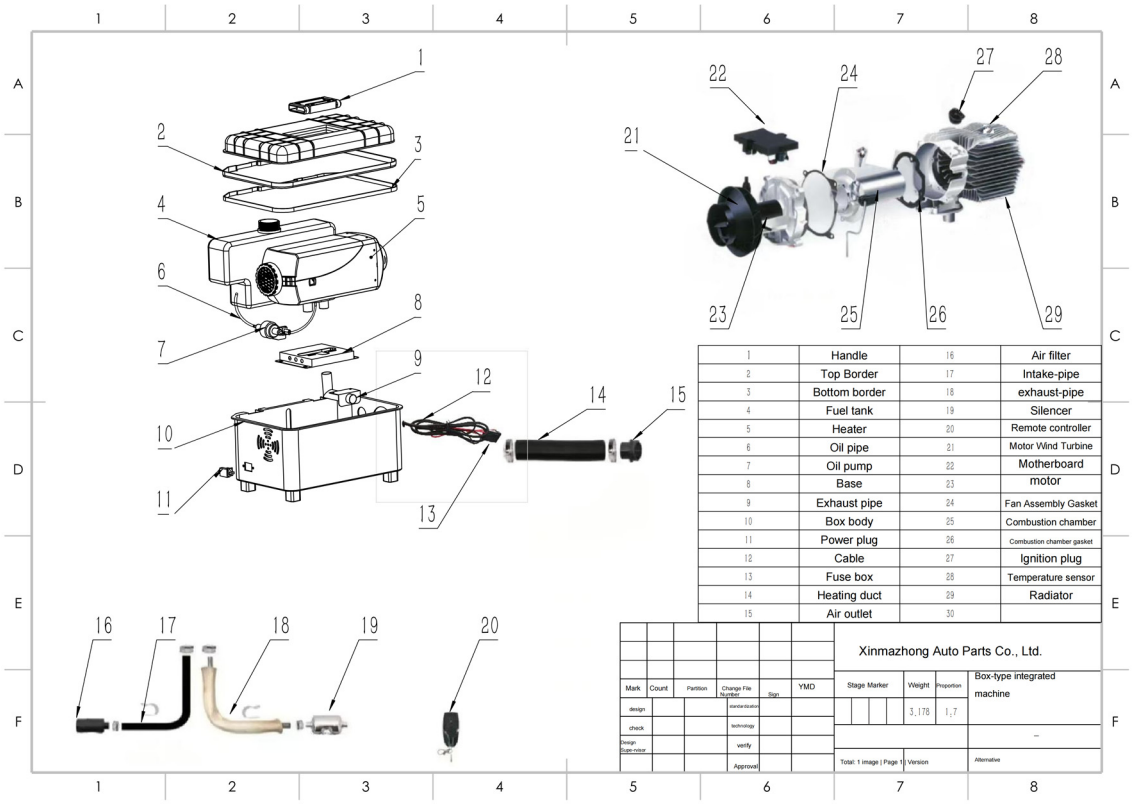
Leak-Proof Fuel Tank Cap, Fuel Level Indicator, and Overheat Protection
The VEVOR diesel air heater 12V 8KW features a fuel tank cap that prevents leaks, so you don't have to worry about a mess. You can see how much diesel is left on the fuel level indicator, making filling up easy and quick. You'll always know when it's time to add fuel, and the heater will keep going without stopping.

Overheat protection makes the heater safer by turning it off automatically if it gets too hot. With all of these features working together, you have full control, peace of mind, and a warm place. The heater delivers safe, reliable, and steady heat whenever you need it, whether you're in your car, your cabin, or a campsite

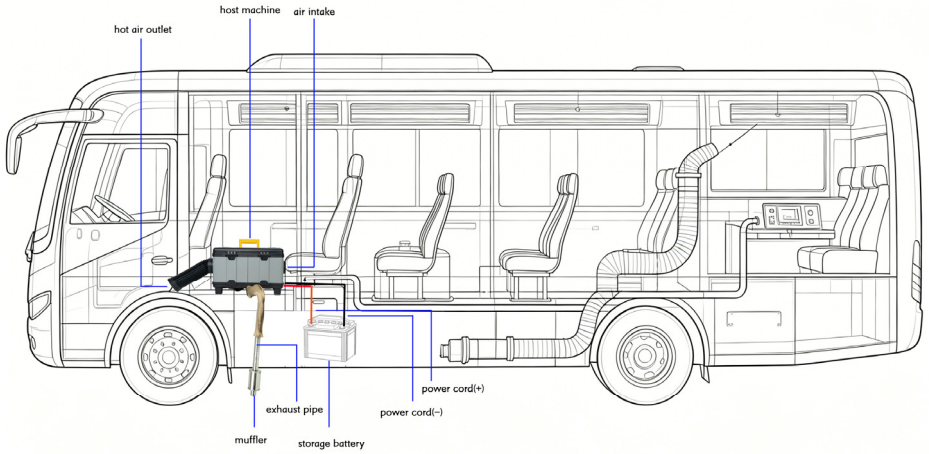
3. List of Annexes

Annex	Subject	page
Annex 1	Drawings of the heating system and its general arrangement	12
Annex 2	Drawings of the heater	13
Annex 3	Electronic block diagram of the heater	15
Annex 4	List of main component constituting the heating system	17

Annex 1 Drawings of the heating system and its general arrangement



Heater Installation Layout Drawing



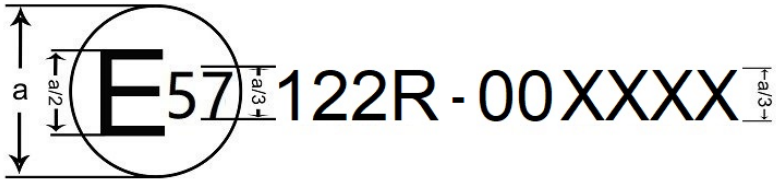
Annex 2 Drawings of the heater

Location of the ECE approval mark



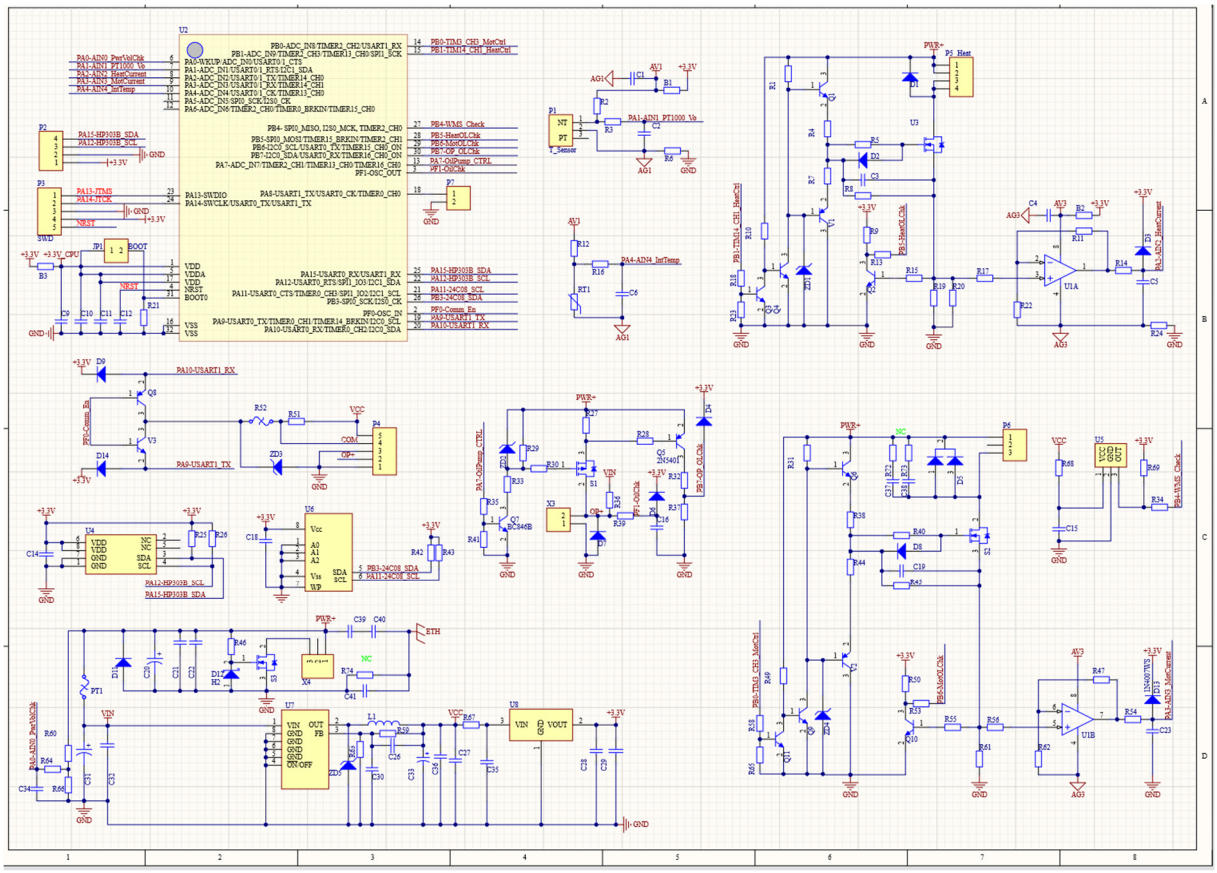


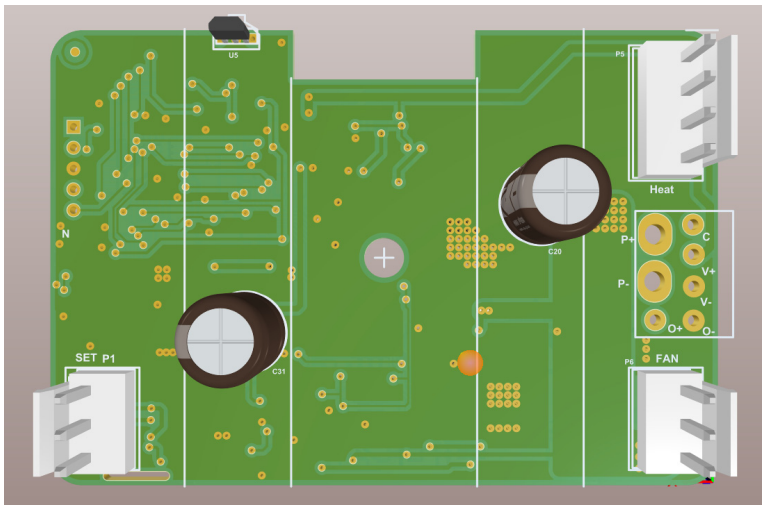
Example of approval mark

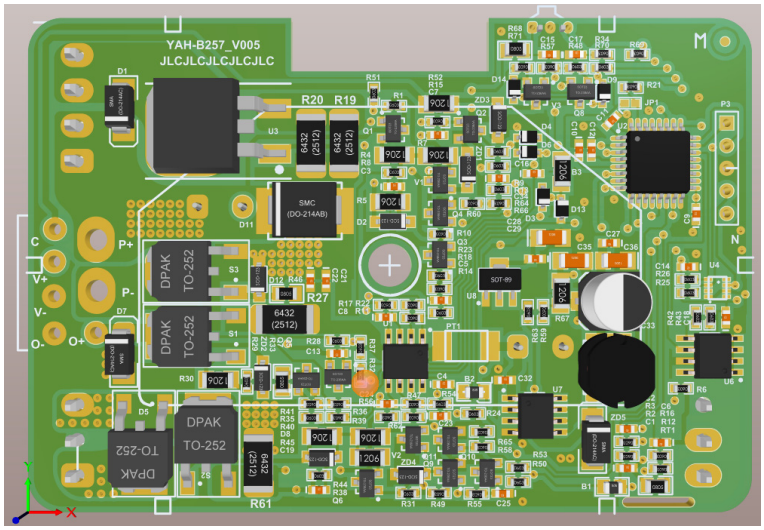


a = 8 mm min

Annex 3 Electronic block diagram of the heater




Heat
SET P1
FAN
P+
P-
V+
V-
O+
O-


YAH-B257_V005
JLCJLCJLCJLCJLC
DPAK
TO-252

Annex 4 List of main component constituting the heating system

Name	Specification	Qty.
Combustion chamber	5kw	1
Ignition plug	12V	1
Motor assembly	5kw	1
Control motherboard Shell	B257	1
Control motherboard Shell	/	1
Oil pump	22ml	1
Temperature sensor	/	1
Fuel tank	6L	1

Repubblica di San Marino
Autorità per l'Omologazione
Republic of San Marino
Authority for Homologation

E57

Certificato N.
Certificate No.
E57*COP*3688

L'Autorità per l'Omologazione della Repubblica di San Marino, per il rilascio di Omologazioni secondo i Regolamenti ECE dell'ONU, con il presente **certifica** che
*The Authority for Homologation of the Republic of San Marino, to issue Approvals according to UN ECE Regulations, hereby **certifies** that*

Renqiu Xinmaizhong Auto Parts Co., Ltd

Sede legale / *Registered office: No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China*
Sede(i) operativa(e) / *Production site(s): No. 3, Jingnan Innovation Industrial Park, North of Linxing Road, North District, Economic Development Zone, Renqiu City, Cangzhou City, Hebei Province, 062550, China*

E' RITENUTA IDONEA ALLA PRODUZIONE IN SERIE
IS QUALIFIED FOR THE PRODUCTION IN SERIES

per i seguenti prodotti:
for the following products:

Componenti ed entità tecniche per veicoli
Components and technical units for vehicles

Numero del Servizio Tecnico / *Number of Technical Service*	:	RSMAO-01
Verbale del sopralluogo n. / *Inspection report no.*	:	ATS-SM-IR-COP-37791
Data del sopralluogo / *Date of inspection*	:	17/07/2026
Validità del certificato fino al / *Certificate valid until*	:	**17/07/2028**

RSM, 17/07/2026

AUTORITA' PER L'OMOLOGAZIONE E57 Repubblica di San Marino

Firma: .....
(Ing. Marco Conti –Direttore Generale)

Autorità per l'Omologazione
Via III Settembre, 99 - 47891 Dogana - Repubblica di San Marino
info@smao.sm www.smao.sm

AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Renqiu Xinmaizhong Auto Parts Co Ltd	**Manufacturer:**	Renqiu Xinmaizhong Auto Parts Co Ltd
Address:	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, CANGZHOU CITY Hebei	**Address:**	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, CANGZHOU CITY Hebei
Country:	China	**Country:**	China

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Intertek Testing Services Shenzhen Limited Guangzhou Branch

Control Number: ***5035540*** **Authorized by:** _____
for L. Matthew Snyder, Certification Manager

This document supersedes all previous Authorizations to Mark for the noted Report Number.

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Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s):	Oil-Fired Air Heaters and Oil-Fired Direct-Fired Heaters [UL 733:2019 Ed.5] Oil-Fired Warm-Air Heating Appliances for Mobile Housing and Recreational Vehicles [CSA B140.10:2006 Ed.2]
Product:	Diesel Heater
Models:	TB10WF, TB10Pro, T8BP, TB30pro, TB30 max

1.0 Reference and Address			
Report Number	260710028GZU-005	Original Issued: 1-Aug-2026	Revised: None
Standard(s)	Oil-Fired Air Heaters and Oil-Fired Direct-Fired Heaters [UL 733:2019 Ed.5] Oil-Fired Warm-Air Heating Appliances for Mobile Housing and Recreational Vehicles [CSA B140.10:2006 Ed.2]		

Applicant	Renqiu Xinmaizhong Auto Parts Co Ltd	Manufacturer	**Renqiu Xinmaizhong Auto Parts Co Ltd**
Address	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, CANGZHOU CITY Hebei	Address	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, CANGZHOU CITY Hebei
Country	China	Country	China
Contact	Sun Mengli	Contact	Sun Mengli
Phone	18733774980	Phone	18733774980
FAX	NA	FAX	NA
Email	sun18733774980@163.com	Email	sun18733774980@163.com

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2.0 Product Description	
Product	Diesel Heater
Brand name	NA
Description	Direct Oil-fired Heaters, use Diesel To Be Used In Well-Ventilated Commercial-Industrial Occupancies. For use on non-combustible flooring with minimum clearances to combustible materials. Top:0.5 m Front:0.5 m Sides:0.5 m
Models	TB10WF, TB10Pro, T8BP, TB30pro, TB30 max
Model Similarity	Models TB10WF, TB10Pro, T8BP are the same, except model number. Models TB30pro, TB30 max are the same, except model number.
Ratings	TB10WF, TB10Pro, T8BP, TB30pro, TB30 max:Input electrical rating: 12VDC, 9 A.
Other Ratings	TB10WF, TB10Pro, T8BP, TB30pro, TB30 max:Fuel input rating: 14500Btu/h, FUEL CONSUMPTION:0.22L/h

3.0 Product Photographs

Photo 1 - Appearance view of models TB10WF, TB10Pro, T8BP



Photo 2 - Inner view of models TB10WF, TB10Pro, T8BP



Photo 3 - Front view of models TB10WF, TB10Pro, T8BP



3.0 Product Photographs

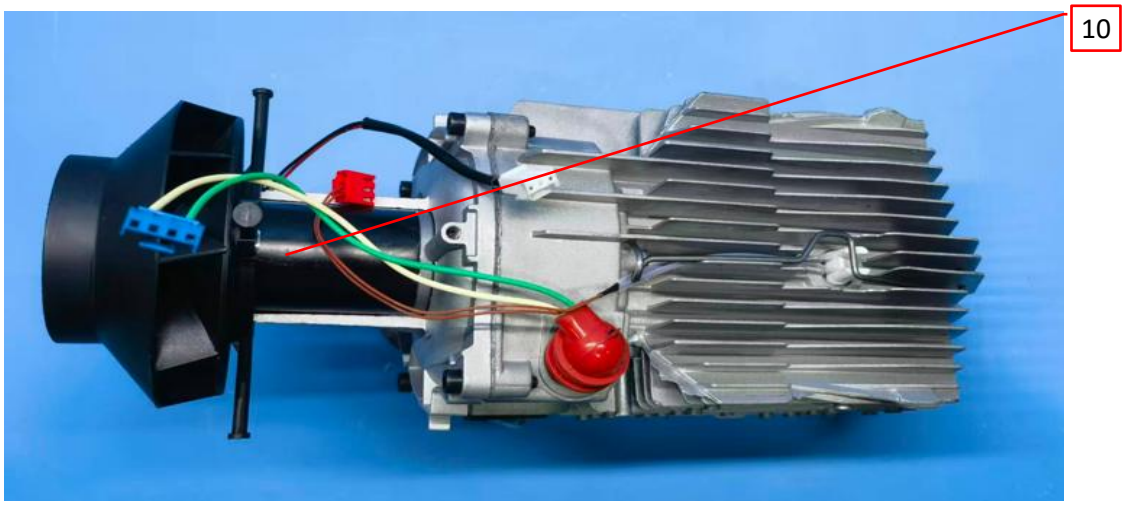
Photo 4 - Appearance view of models TB30pro, TB30



Photo 5 - Appearance view of models TB30pro, TB30



Photo 6 - Burner assembly view



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	Warm Air Duct	Various	Various	Φ76mm× 600mm	NR
1	2	Outtake Pipe	Various	Various	Φ25 × 600mm	NR
1	3	Air Outlet	Various	Various	75mm OD	NR
1	4	Cover Shell	Various	Various	SPCC	NR
1	5	Power adapter	Linyi Xinlide Electronic Technology Co Ltd	XLD-RX120100B	Input: 100-240V~ 50/60Hz 1.8ADC Output: 12.0V-10A 120W Class I	cETLus
			FOSHAN SHUNDE GUANYUDA POWER SUPPLY CO LTD	GM130-1201000-1F	Input: 100-240V~ 50/60Hz Output: 12.0VDC	cURus
1	6	Wire	JIANGSU HAOSI ELECTRICAL TECHNOLOGY CO LTD	3122	Single-conductor, thermoset insulation.	cURus
1	7	Fuse (No show)	Renqiu Yituo Auto Parts Co., Ltd	25A	32V(Max) 25A -40°C-150°C	NR
2	8	Fuel tank	Various	Various	260g 5L, PE	NR
5	9	PCB board	Shenzhen Jia Li Chuang Technology Development Co LTD	FR-4	-20°-130°，94V0 L95mm × W60mm × H13mm	cURus
6	10	Motor	Wenzhou Fuli Electric Co., Ltd.	DM1502	Input: 12 VDC Class C	See 5.0

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
6	10	Motor	Wenzhou Fuli Electric Co., Ltd.	DM1502
Electrical Rating:		Input: 12 VDC		Insulation class C
Component Standard used:		UL 1004-1:2012 Ed.2+R:12Jan2026 UL 1004-7:2012 Ed.2+R:04Oct2017 CSA C22.2#100:2014 Ed.7+U1 CSA C22.2#77:2014 Ed.8+E1		

MATERIALS LIST (refer to illustration 5 for assembly drawing)

VERIFICATION PROCESS

Frequency: **Annual**	Test Site: **Guangzhou (quote required)**	Number of samples to test: **6**

Test Name	Test Parameters		
	Apply voltage Between	Test Voltage	Test Time
Dielectric Strength	Primary to core	500V	60S
	Primary to secondary	500V	60S
	Secondary to core	500V	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, 3.2 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 6.4 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits. Refer to Illustration _10_ for areas to verify.

Ratings		Minimum spacings[a,e],inch (mm)					
Volt-amperes	Volts	Through air		Over surface		To enclosure[d]	
0 – 2000	0 – 300[b]	1/8[c]	3.2	1/4	6.4	1/4	6.4
More than 2000	0 – 150	1/8[c]	3.2	1/4	6.4	1/2	12.7
	151 – 300	1/4	6.4	3/8	9.5	1/2	12.7
	301 – 600	3/8	9.5	1/2[d]	12.7	1/2	12.7

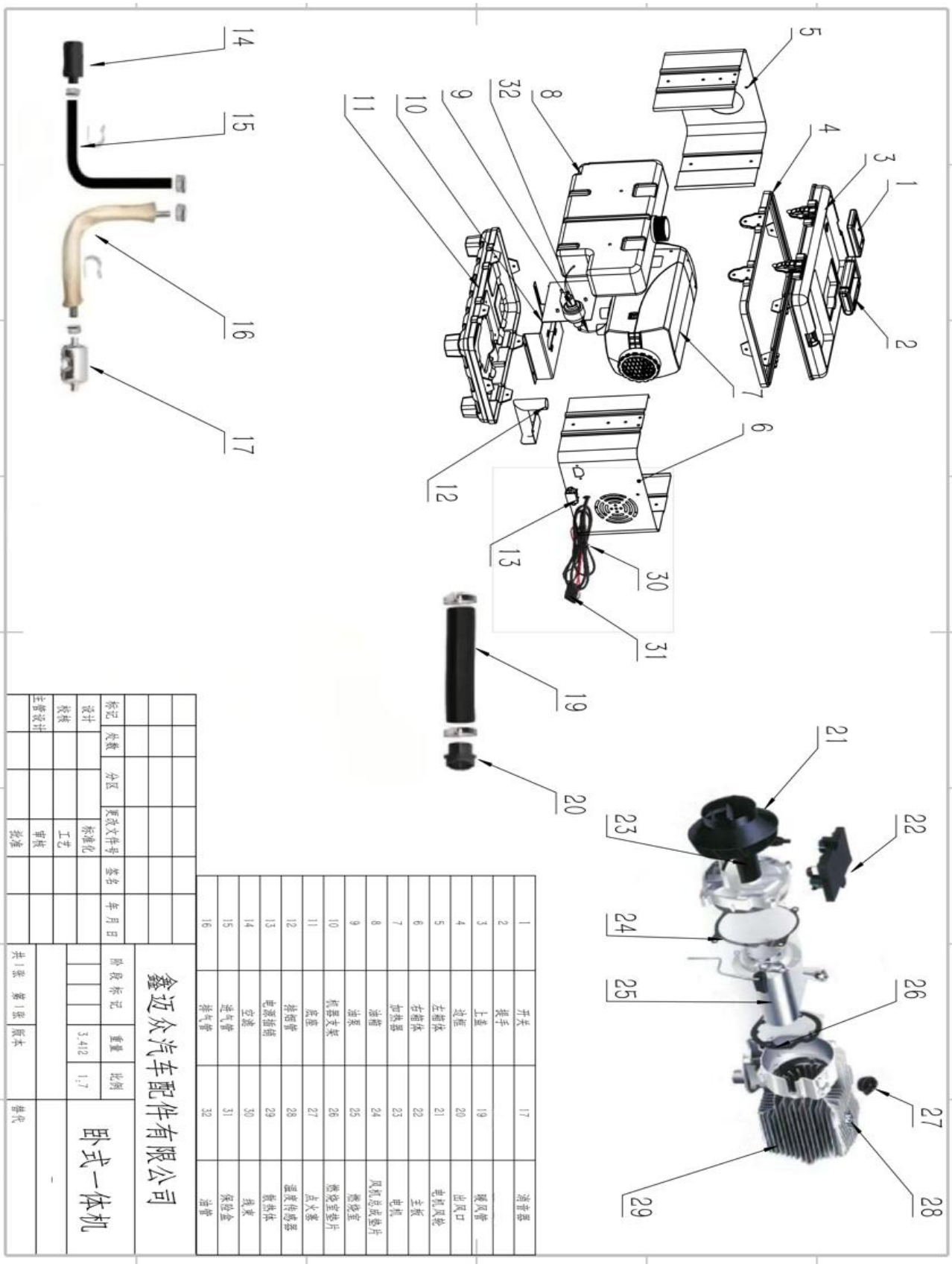
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All 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 or the equipment grounding terminal.
6. Polarized Connection - (If the product uses a polarized connection, this statement is to appear, other wise remove it) 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. (You must include specific construction details used by the manufacturer to maintain the polarity of the power supply circuit in the component descriptions)
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 125V, 105°C.
8. Schematics - Refer to Illustration No(s). 1-4, 6-8 for key drawings requiring verification during Field Representative Inspection Audits.
9. Markings - This product is marked as follows:
   Applicant's name or Brand name
   model number
   ratings
10. Cautionary Markings - The following are required: Refer to Illustration No(s). 9 for details.

6.0 Critical Features

11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.Refer to Illustration No(s). 10-11 for details.

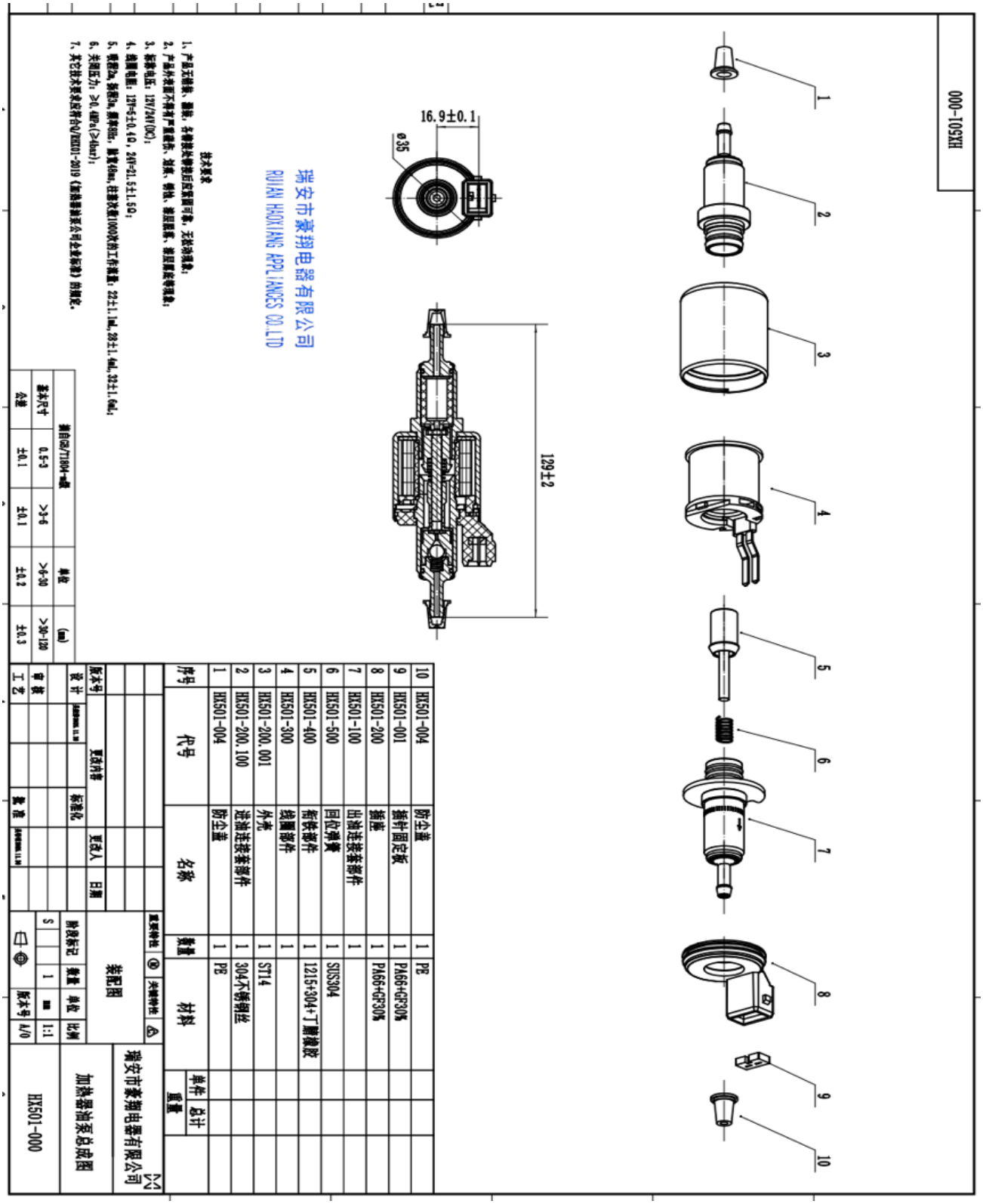
7.0 Illustrations

Illustration 1 - Explosion view of models TB10WF, TB10Pro, T8BP



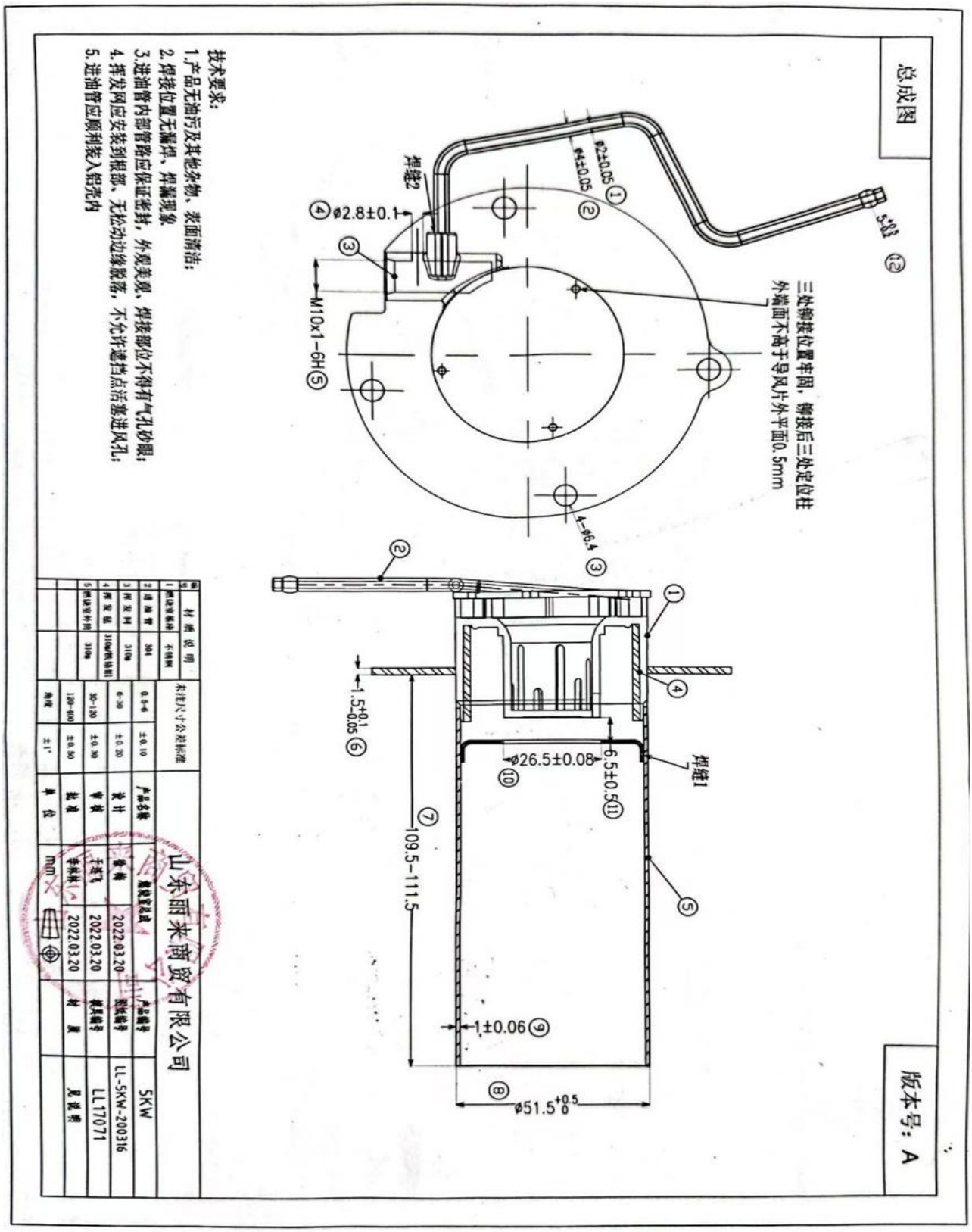
7.0 Illustrations

Illustration 2 - Oil pump assembly view



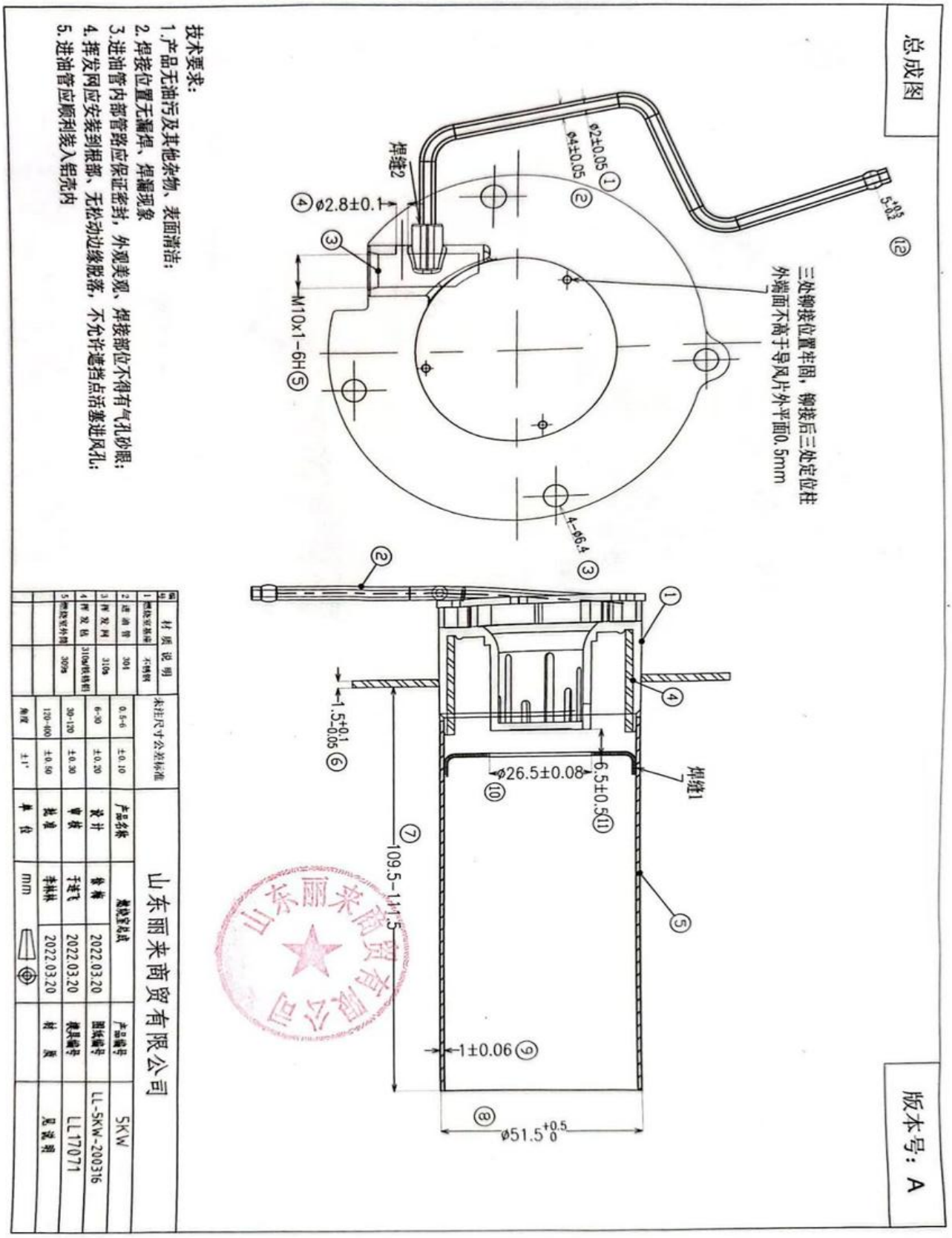
7.0 Illustrations

Illustration 3 - Burner assembly view (1)



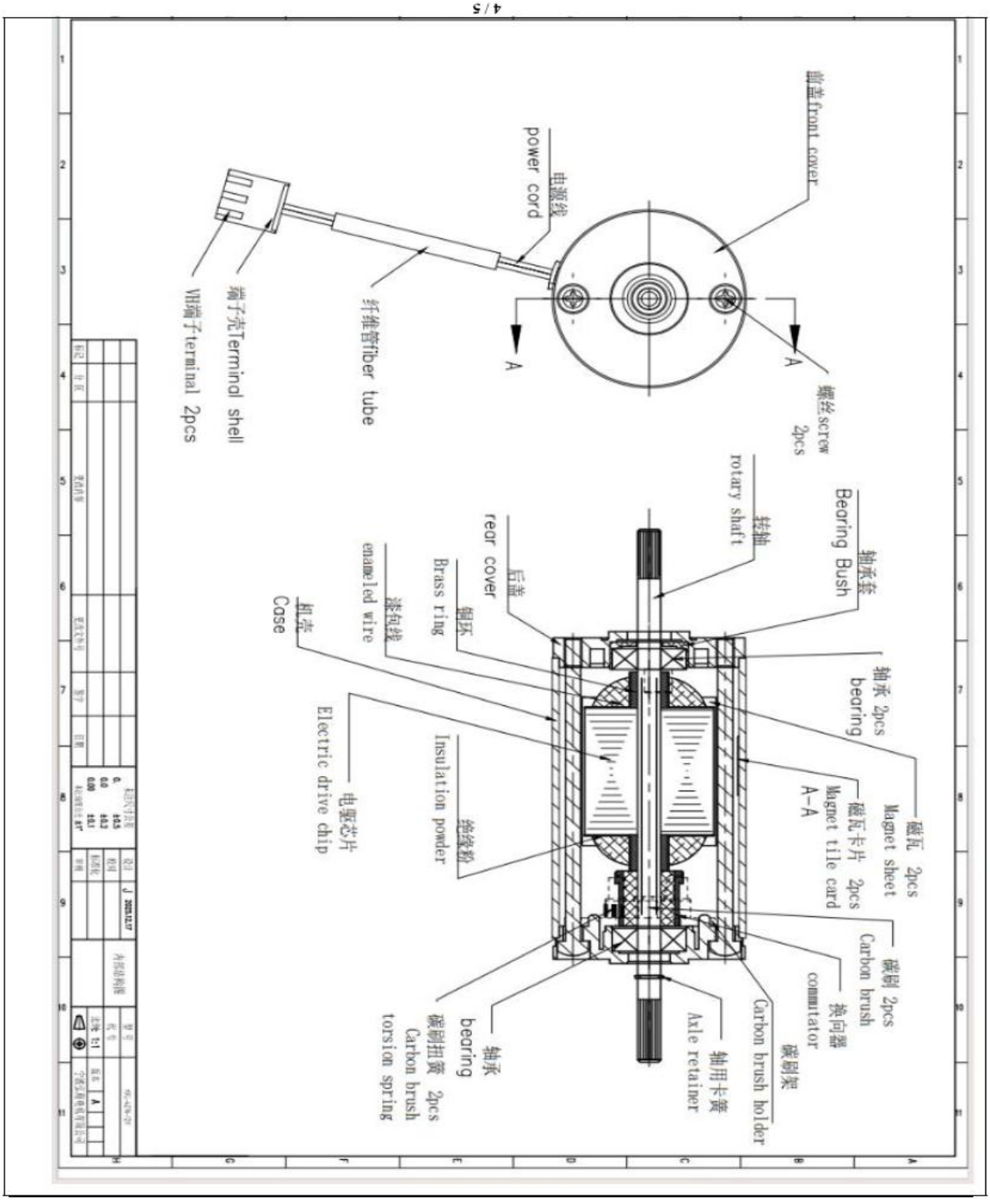
7.0 Illustrations

Illustration 4 - Burner assembly view (2)



7.0 Illustrations

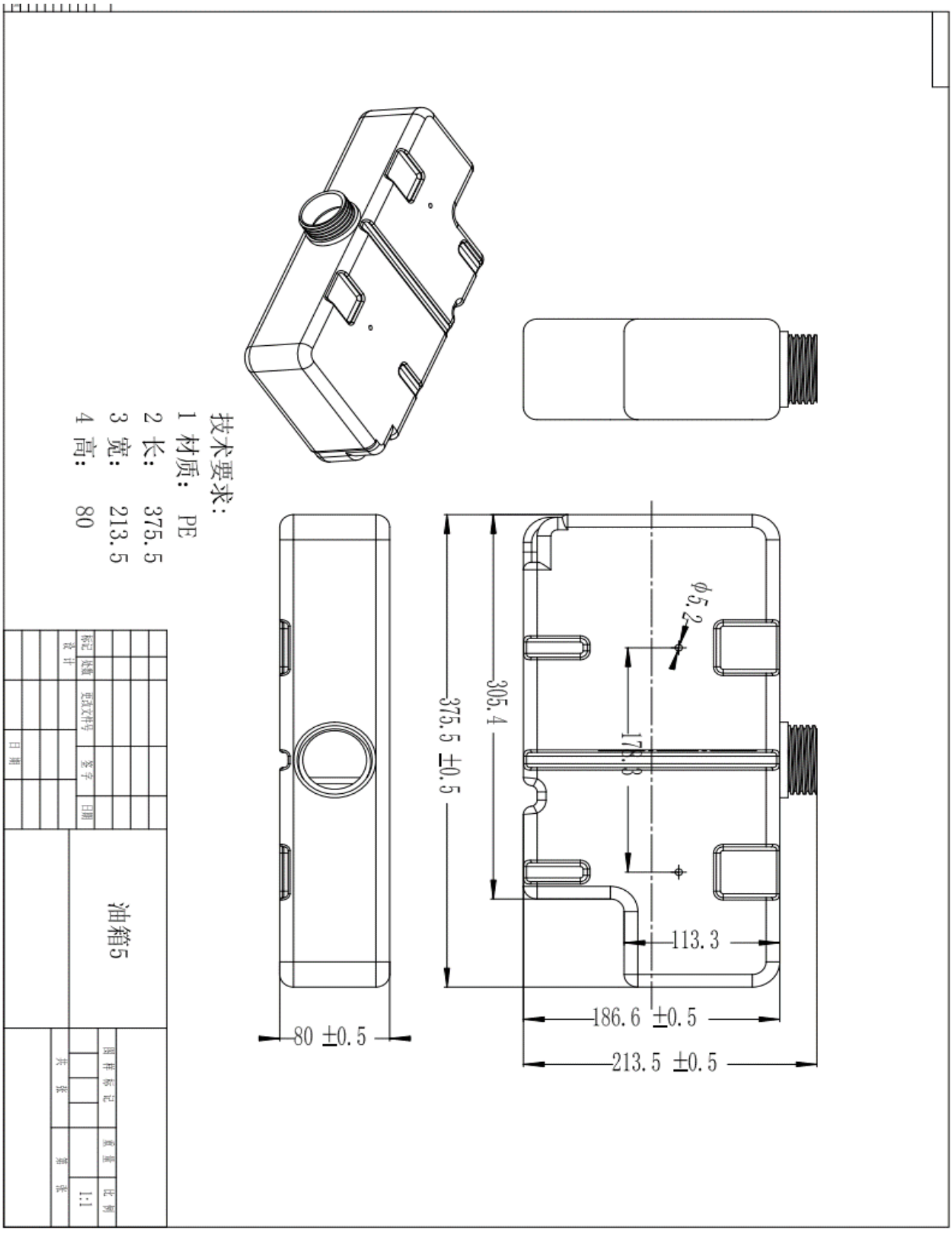
Illustration 5 - Motor view



型号 Motor Model No.:	HXL-4276-12V	确认书编号 Cert Doc No.:	KQR020

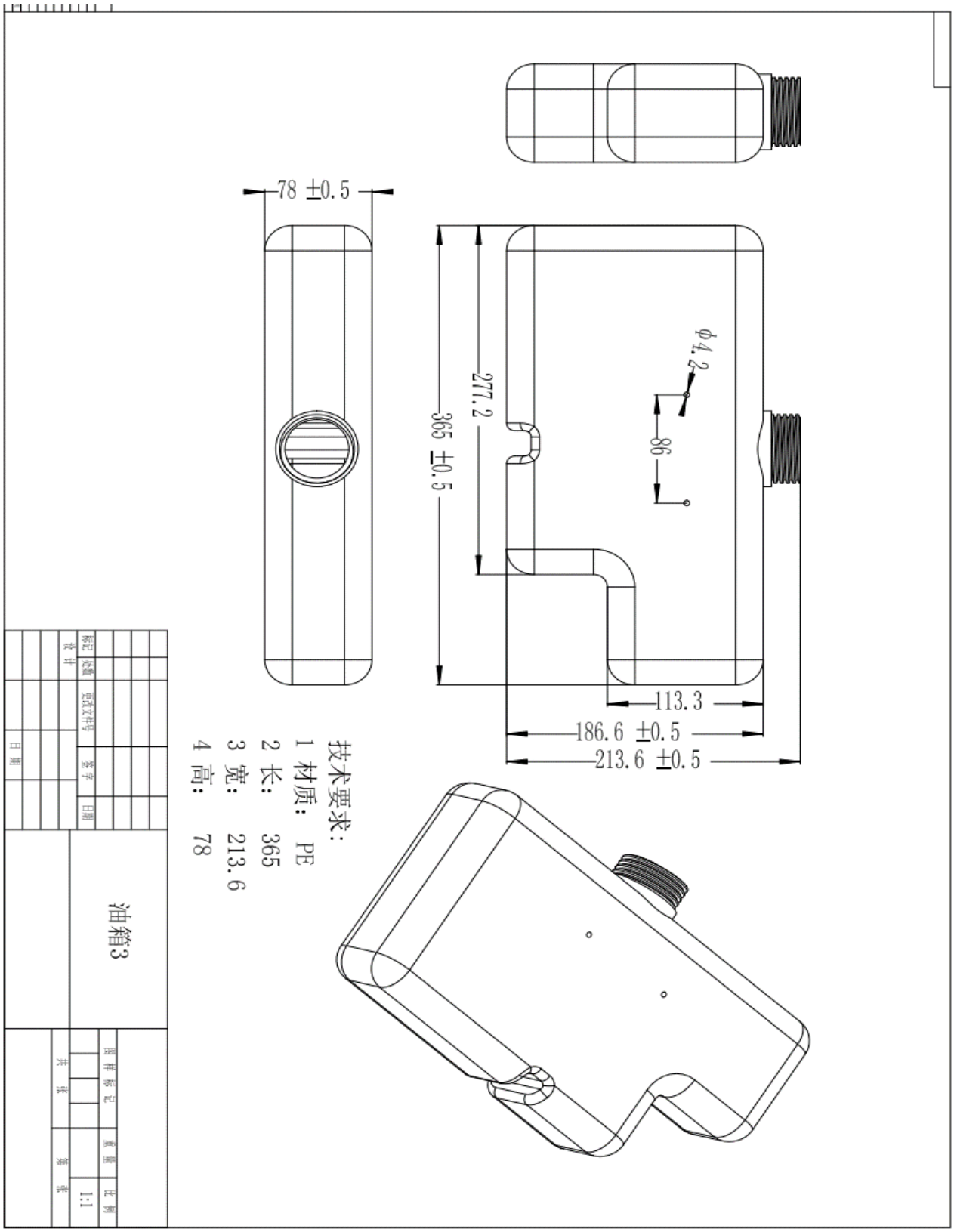
7.0 Illustrations

Illustration 6 - Fuel tank view of models TB10WF, TB10Pro, T8BP



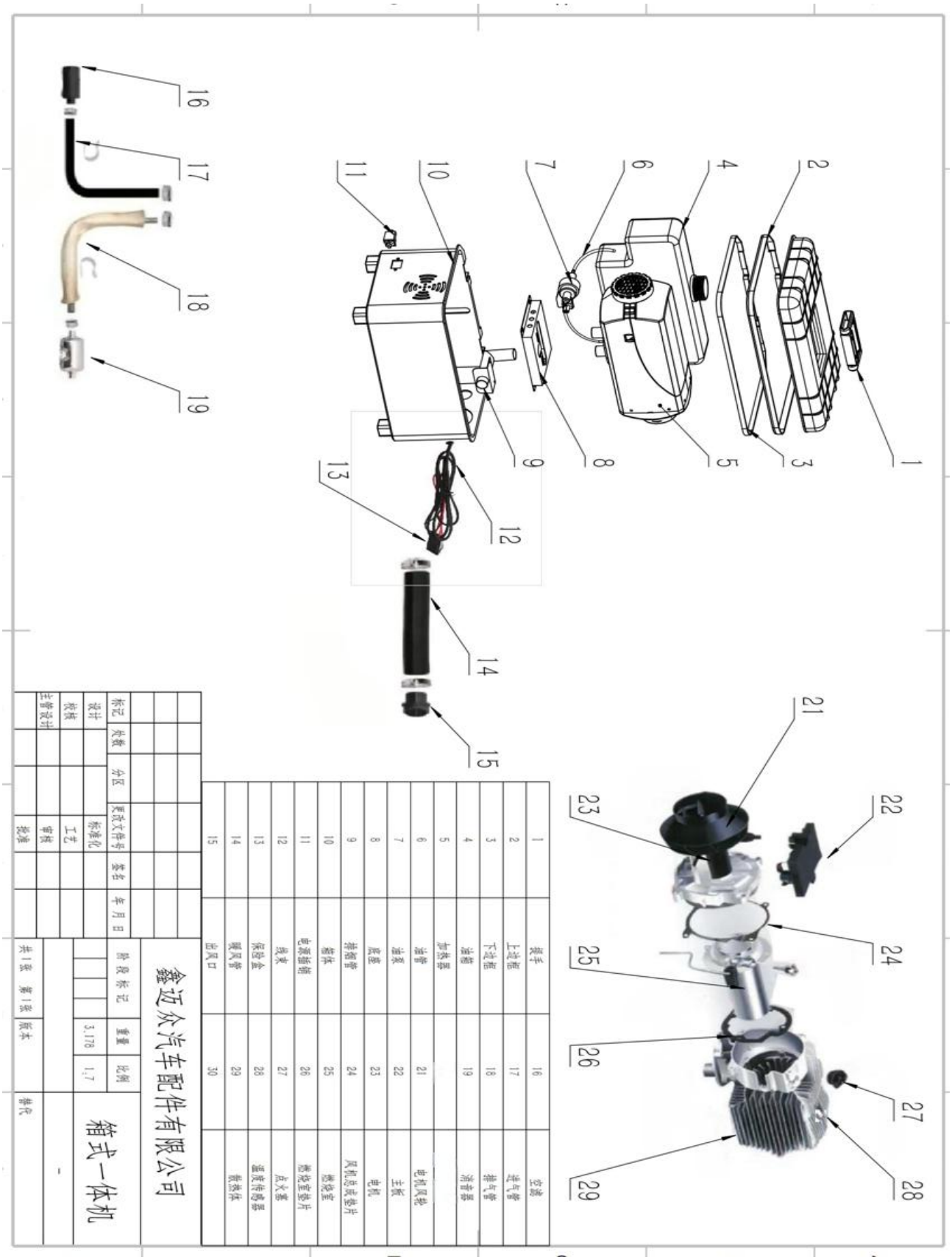
7.0 Illustrations

Illustration 7 - Fuel tank view of model TB30pro, TB30



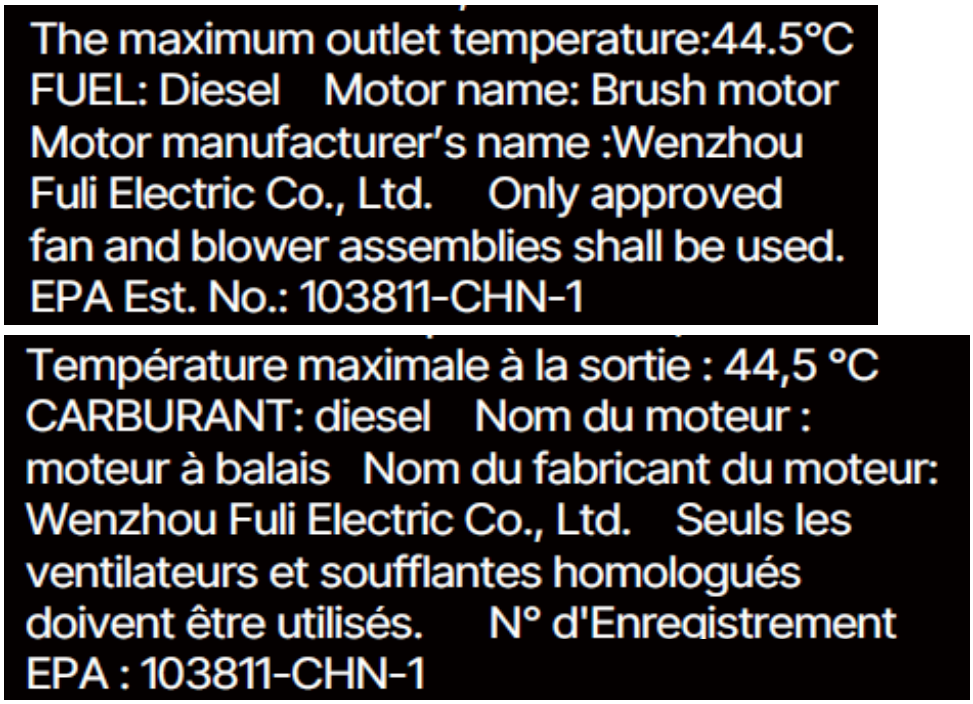
7.0 Illustrations

Illustration 8 - Explosion view of models TB30pro, TB30 max



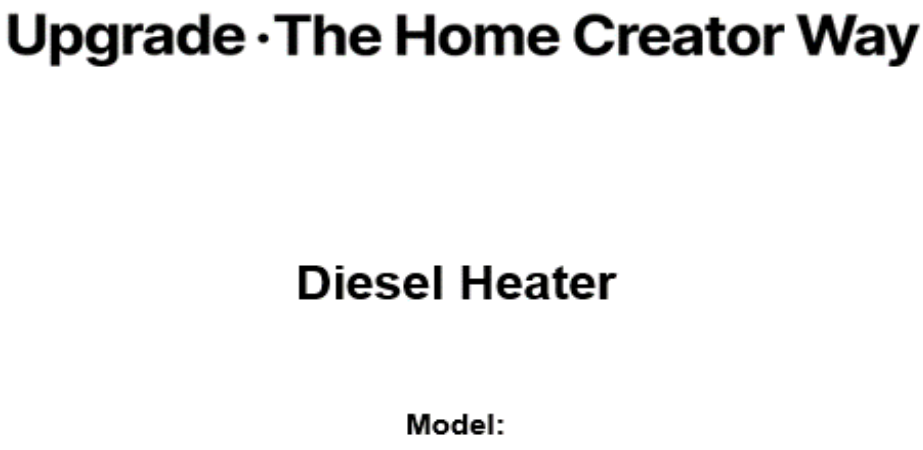
7.0 Illustrations

Illustration 9 -Cautionary Markings



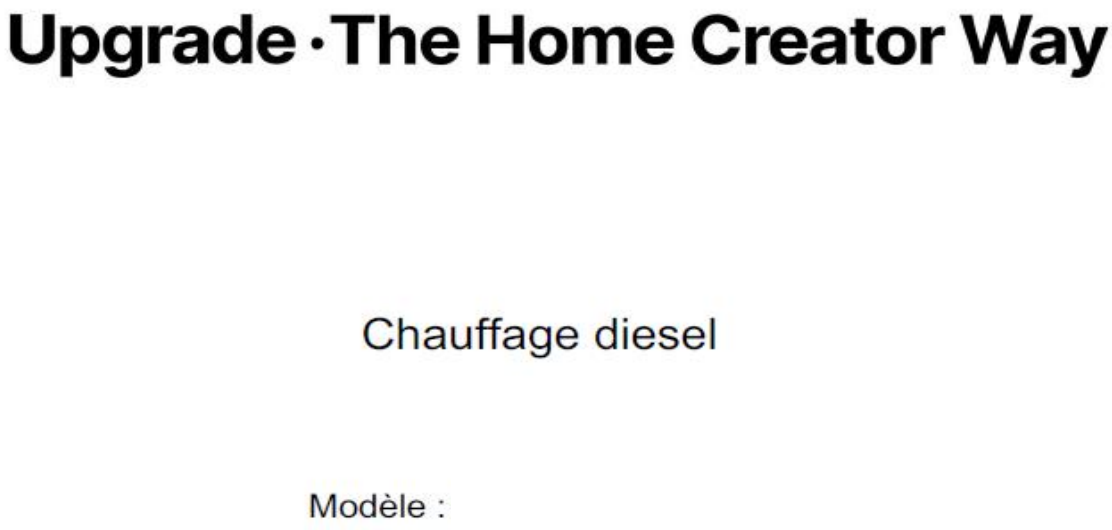
7.0 Illustrations

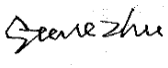
Illustration 10 -Cover page of Manual.



7.0 Illustrations

Illustration 11 -Cover page of Manual.



8.0 Test Summary			
Evaluation Period	10-Jul-26	Project No.	260710028GZU
Due to the previous testing performed under Intertek Report No.260210150GZU-006, no additional testing was necessary.			
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:	Ball Qiu	Reviewed by:	Steve Zhu
Title:	Project Engineer	Title:	Asst. Technical Manager
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	Renqiu Xinmaizhong Auto Parts Co Ltd
Address	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, CANGZHOU CITY Hebei
Country	China
Product	Diesel 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

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 Shenzhen Limited Guangzhou Branch
ETL Component Evaluation Center
Room 101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District
Guangzhou, Guangdong, China
Attn: Ms. Joey Kuang
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

The following manufacturing and production tests are intended to provide minimum quality control standards for Oil fired forced air heater.
The results of these tests shall be recorded and maintained by the manufacturer.
a) Inspection of all raw materials.
b) Check of the relationship between a constant-level device and a vaporizing burner of each heater. Distance from maximum normal level of oil to be maintained by a constant-level device in the burner to the lowest opening through which oil can overflow the burner is required to be not less than 3/4 inch (19.1 mm).
c) Examination of all vaporizing burners to ensure that they are free from defects. If of cast iron, the burner is to be tested for porosity and leakage by filling it with No. 1 oil and allowing it to stand for at least a 1/2 hour, or with mineral spirits for at least 5 minutes.
d) Inspection of combustion chambers and heat exchangers to determine conformance with manufacturing specifications.
e) Subjecting at least 3 percent of all constant-level valves with integral metering stems to a flow test before being mounted on the heater to assure that at specified adjustment the pilot fire flow rate does not exceed the amount specified.
f) In the case of power-operated burners not separately inspected, each burner or its essential components is to be tested to reveal and eliminate the following:
1) Oil leaks.
2) Electrical defects.
3) Misalignment.
g) Each burner not separately inspected is to be checked to determine:
1) Proper oil pressure.
2) Total motor input.
3) Proper adjustment of igniters.
h) If heaters are not assembled at the factory, the manufacturer is to periodically assemble a heater from production to check compatibility of the subassemblies. The components are to be capable of being readily assembled. It is suggested that one unit be so checked for each 100 units produced, but not more than one for each week or production.
i) Dielectric Withstand Tests on each heater incorporating high-voltage electrical circuit(s). The test shall be conducted in accordance with the requirements of the Production Line Dielectric Withstand Test.
j) Conduction of Grounding Continuity Tests.

11.1 Dielectric Voltage Withstand Test

Method

A 60 Hz potential as indicated below shall be applied between high-voltage live parts and dead-metal parts for a period of 1 minute, except that the time of application of the potential may be reduced to 1 second if the value of the test potential is 120 percent of the value shown.

a) 1,000 volts plus twice rated voltage, except as noted below.

b) 1,000 volts for motors rated at not more than 1/2 horsepower (373 W) and not more than 250 volts.

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:

Product	Test Voltage	Test Time
All products covered by this Report.	1000V	60 s

11.2 Grounding Continuity Test

Method

The manufacturer shall test each heater which has a power supply cord to assure electrical continuity between the device and the grounding blade of the attachment-plug cap, as required by 24.1.

For this test, the manufacturer is to employ a suitable resistance-indicating instrument with leads and terminals by which the grounding circuit continuity may be determined.

Where internal parts, as referred to in 24.1 are determined in the investigation of the device to be adequately bonded to the frame and enclosure of the heater, a test which determines the electrical continuity between the grounding blade and the frame or enclosure is sufficient.

Products Requiring Grounding Continuity Test:

All products covered by this Report.

12.0 Revision Summary

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

Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
				None

AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Renqiu Xinmaizhong Auto Parts Co Ltd	**Manufacturer:**	Renqiu Xinmaizhong Auto Parts Co Ltd
Address:	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, CANGZHOU CITY Hebei	**Address:**	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, CANGZHOU CITY Hebei
Country:	China	**Country:**	China

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Intertek Testing Services Shenzhen Limited Guangzhou Branch

Control Number: ***5035540*** **Authorized by:** _____
for L. Matthew Snyder, Certification Manager

This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s):	Oil-Fired Air Heaters and Oil-Fired Direct-Fired Heaters [UL 733:2019 Ed.5] Oil-Fired Warm-Air Heating Appliances for Mobile Housing and Recreational Vehicles [CSA B140.10:2006 Ed.2]
Product:	Diesel Heater
Brand Name:	Sunster
Models:	XMZ-TB10, TBA1, 707-DH-T8BPA

1.0 Reference and Address			
Report Number	260210150GZU-003	Original Issued: 18-Jun-2026	Revised: None
Standard(s)	Oil-Fired Air Heaters and Oil-Fired Direct-Fired Heaters [UL 733:2019 Ed.5] Oil-Fired Warm-Air Heating Appliances for Mobile Housing and Recreational Vehicles [CSA B140.10:2006 Ed.2]		

Applicant	Renqiu Xinmaizhong Auto Parts Co Ltd	Manufacturer	**Renqiu Xinmaizhong Auto Parts Co Ltd**
Address	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, CANGZHOU CITY Hebei	Address	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, CANGZHOU CITY Hebei
Country	China	Country	China
Contact	Sun Mengli	Contact	Sun Mengli
Phone	18733774980	Phone	18733774980
FAX	NA	FAX	NA
Email	sun18733774980@163.com	Email	sun18733774980@163.com

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2.0 Product Description	
Product	Diesel Heater
Brand name	Sunster
Description	Direct Oil-fired Heaters, use Diesel To Be Used In Well-Ventilated Commercial-Industrial Occupancies. For use on non-combustible flooring with minimum clearances to combustible materials. Top:0.5 m Front:0.5 m Sides:0.5 m
Models	XMZ-TB10, TBA1, 707-DH-T8BPA
Model Similarity	Models XMZ-TB10, TBA1, 707-DH-T8BPA are the same, except model number.
Ratings	Input electrical rating: Adaptor input: 100-240V~, 50/60Hz, Adaptor output: 12VDC, 10A or Main unit: 12-24VDC, 120W
Other Ratings	Fuel input rating: 13000Btu/h, FUEL CONSUMPTION:0.38L/h

3.0 Product Photographs

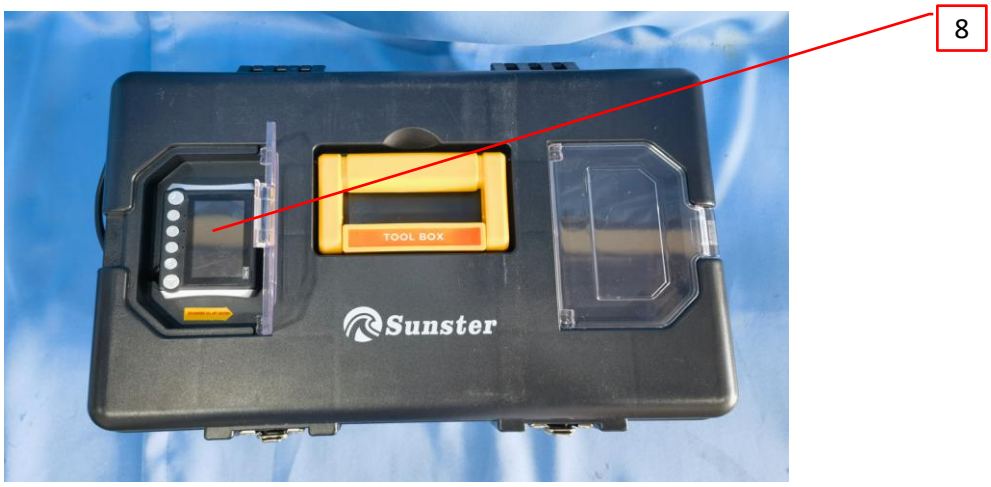
Photo 1 - Appearance view of model XMZ-TB10



Photo 2 - Inner view of model XMZ-TB10

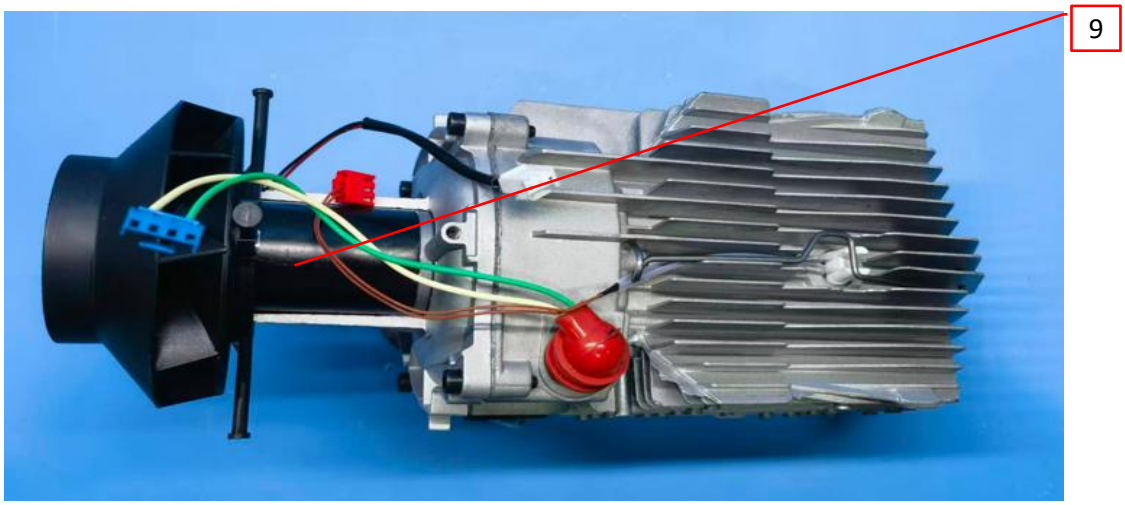


Photo 3 - Top view of model XMZ-TB10



3.0 Product Photographs

Photo 4 - Burner assembly view



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	Fuse (No show)	Renqiu Yituo Auto Parts Co., Ltd	25A	32V(Max) 25A -40°C-150°C	NR
1	2	Warm Air Duct	Various	Various	Φ76mm× 600mm	NR
1	3	Power adapter	Linyi Xinlide Electronic Technology Co Ltd	XLD-RX120100B	Input: 100-240V~ 50/60Hz 1.8ADC Output: 12.0V-10A 120W Class I	cETLus
			FOSHAN SHUNDE GUANYUDA POWER SUPPLY CO LTD	GM130-1201000-1F	Input: 100-240V~ 50/60Hz Output: 12.0VDC	cURus
1	4	Cover Shell	Various	Various	SPCC	NR
1	5	Outtake Pipe	Various	Various	Φ25 × 600mm	NR
1	6	Wire	JIANGSU HAOSI ELECTRICAL TECHNOLOGY CO LTD	3122	Single-conductor, thermoset insulation.	cURus
2	7	Fuel tank	Various	Various	260g 5L, PE	NR
3	8	PCB board	Shenzhen Jia Li Chuang Technology Development Co LTD	FR-4	-20°-130°，94V0 L95mm × W60mm × H13mm	cURus
4	9	Motor	Wenzhou Fuli Electric Co., Ltd.	DM1502	Input: 12 VDC Class C	See 5.0

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
4	9	Motor	Wenzhou Fuli Electric Co., Ltd.	DM1502
Electrical Rating:		Input: 12 VDC		Insulation class C
Component Standard used:		UL 1004-1:2012 Ed.2+R:12Jan2026 UL 1004-7:2012 Ed.2+R:04Oct2017 CSA C22.2#100:2014 Ed.7+U1 CSA C22.2#77:2014 Ed.8+E1		
MATERIALS LIST (refer to illustration 5 for assembly drawing)				

VERIFICATION PROCESS					
Frequency:	**Annual**	Test Site:	**Guangzhou (quote required)**	Number of samples to test:	**1**

Test Name	Test Parameters		
	Apply voltage Between	Test Voltage	Test Time
Dielectric Strength	Primary to core	500V	60S
	Primary to secondary	500V	60S
	Secondary to core	500V	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, 3.2 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 6.4 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits. Refer to Illustration _10_ for areas to verify.

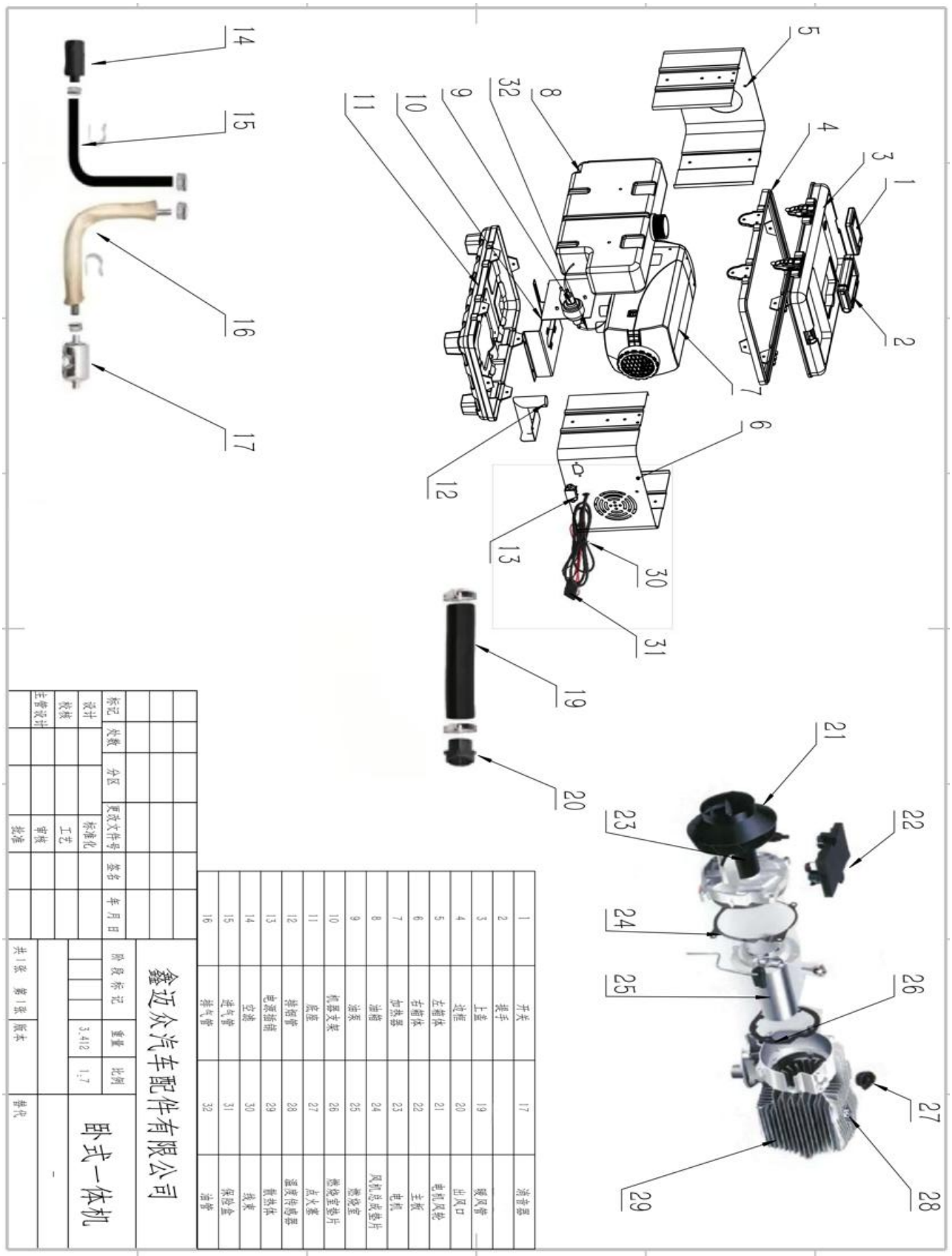
Ratings		Minimum spacings[a,e],inch (mm)					
Volt-amperes	Volts	Through air		Over surface		To enclosure[d]	
0 – 2000	0 – 300[b]	1/8[c]	3.2	1/4	6.4	1/4	6.4
More than 2000	0 – 150	1/8[c]	3.2	1/4	6.4	1/2	12.7
	151 – 300	1/4	6.4	3/8	9.5	1/2	12.7
	301 – 600	3/8	9.5	1/2[d]	12.7	1/2	12.7

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 or the equipment grounding terminal.
6. Polarized Connection - (If the product uses a polarized connection, this statement is to appear, other wise remove it) 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. (You must include specific construction details used by the manufacturer to maintain the polarity of the power supply circuit in the component descriptions)
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 125V, 105°C.
8. Schematics - Refer to Illustration No(s). 1-4, 6-7 for key drawings requiring verification during Field Representative Inspection Audits.
9. Markings - This product is marked as follows:
   Applicant's name or Brand name
   model number
   ratings
10. Cautionary Markings - The following are required: Refer to Illustration No(s). 8 for details.

6.0 Critical Features
11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.Refer to Illustration No(s). 9 for details.

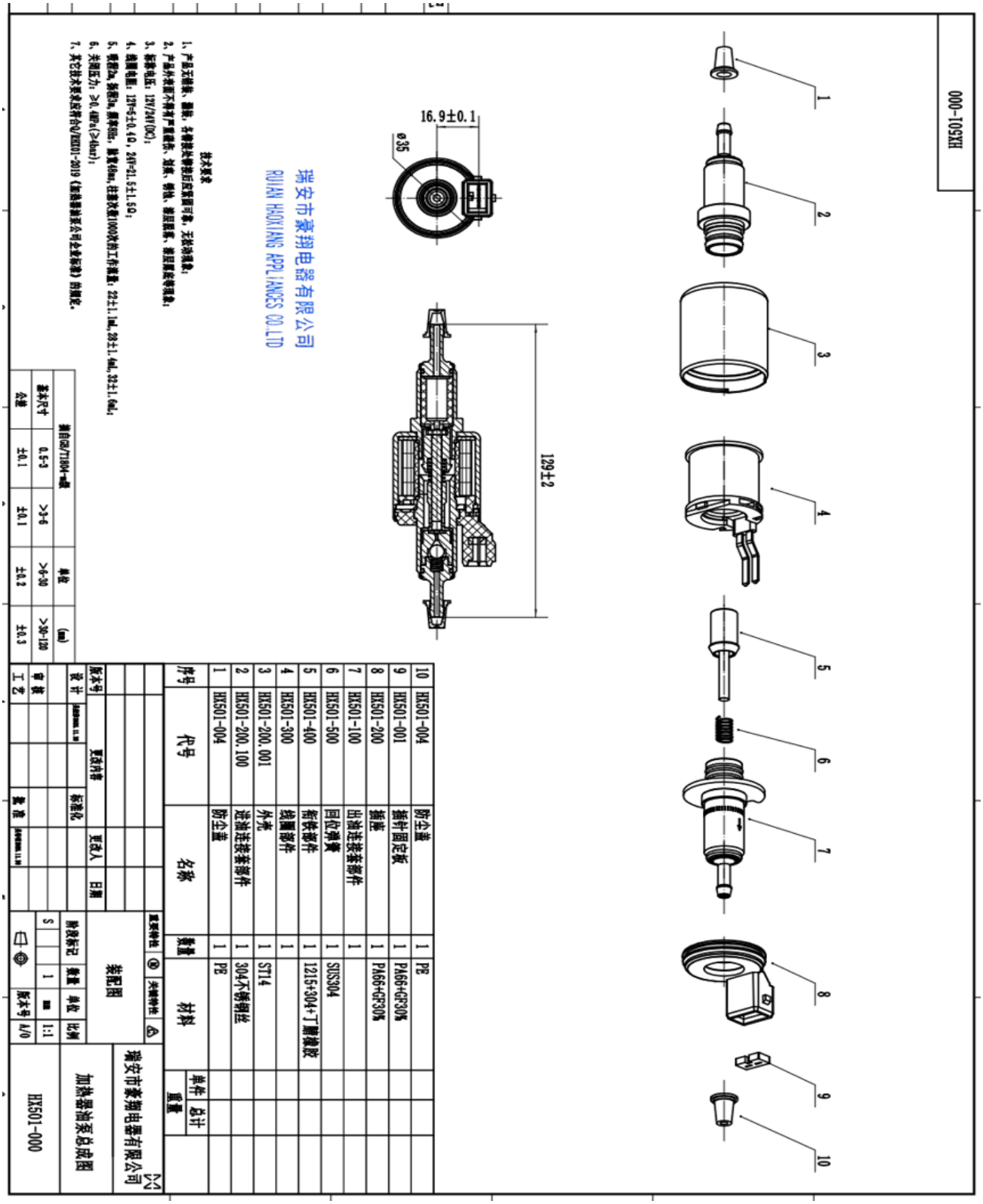
7.0 Illustrations

Illustration 1 - Explosion view of model XMZ-TB10



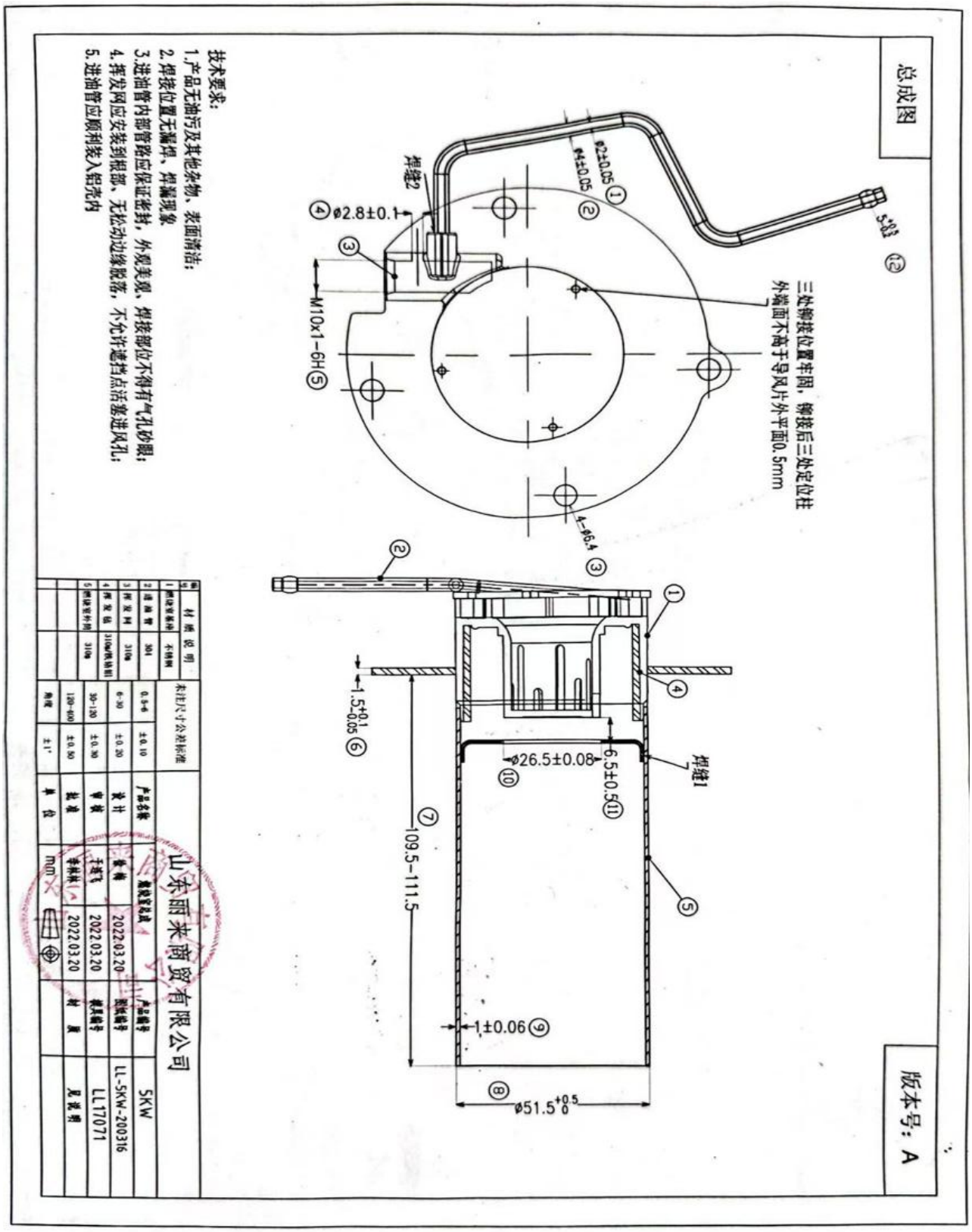
7.0 Illustrations

Illustration 2 - Oil pump assembly view



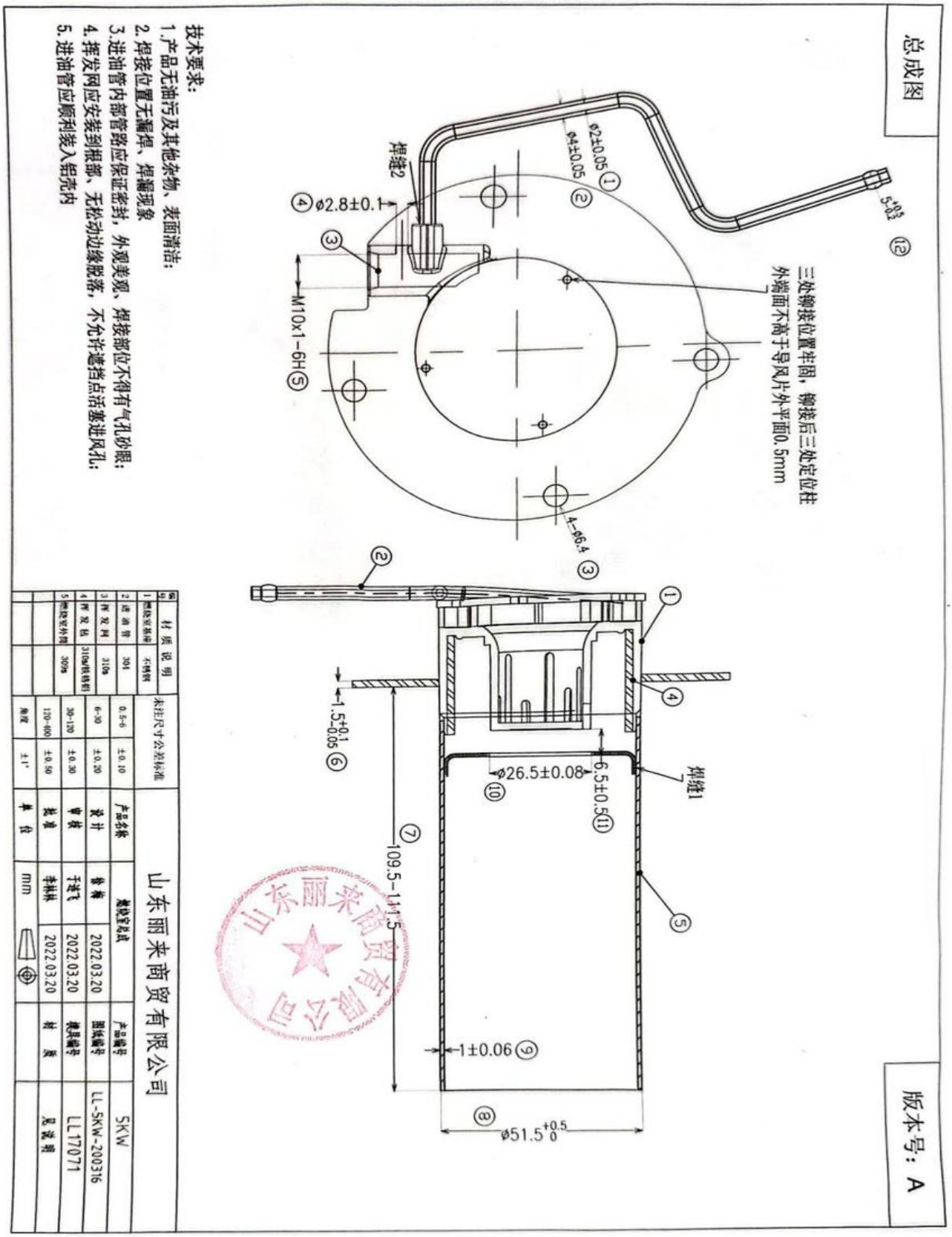
7.0 Illustrations

Illustration 3 - Burner assembly view (1)



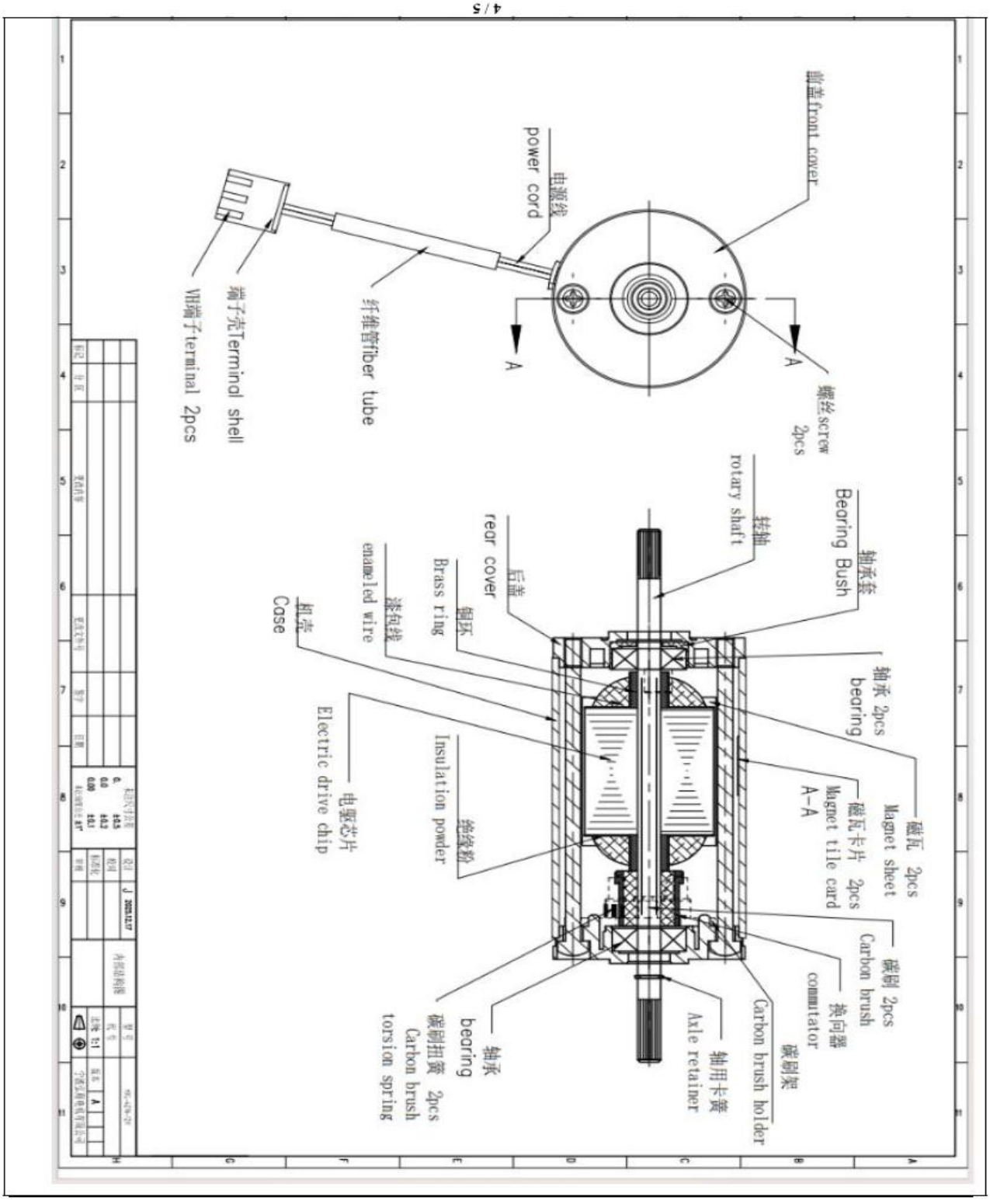
7.0 Illustrations

Illustration 4 - Burner assembly view (2)



7.0 Illustrations

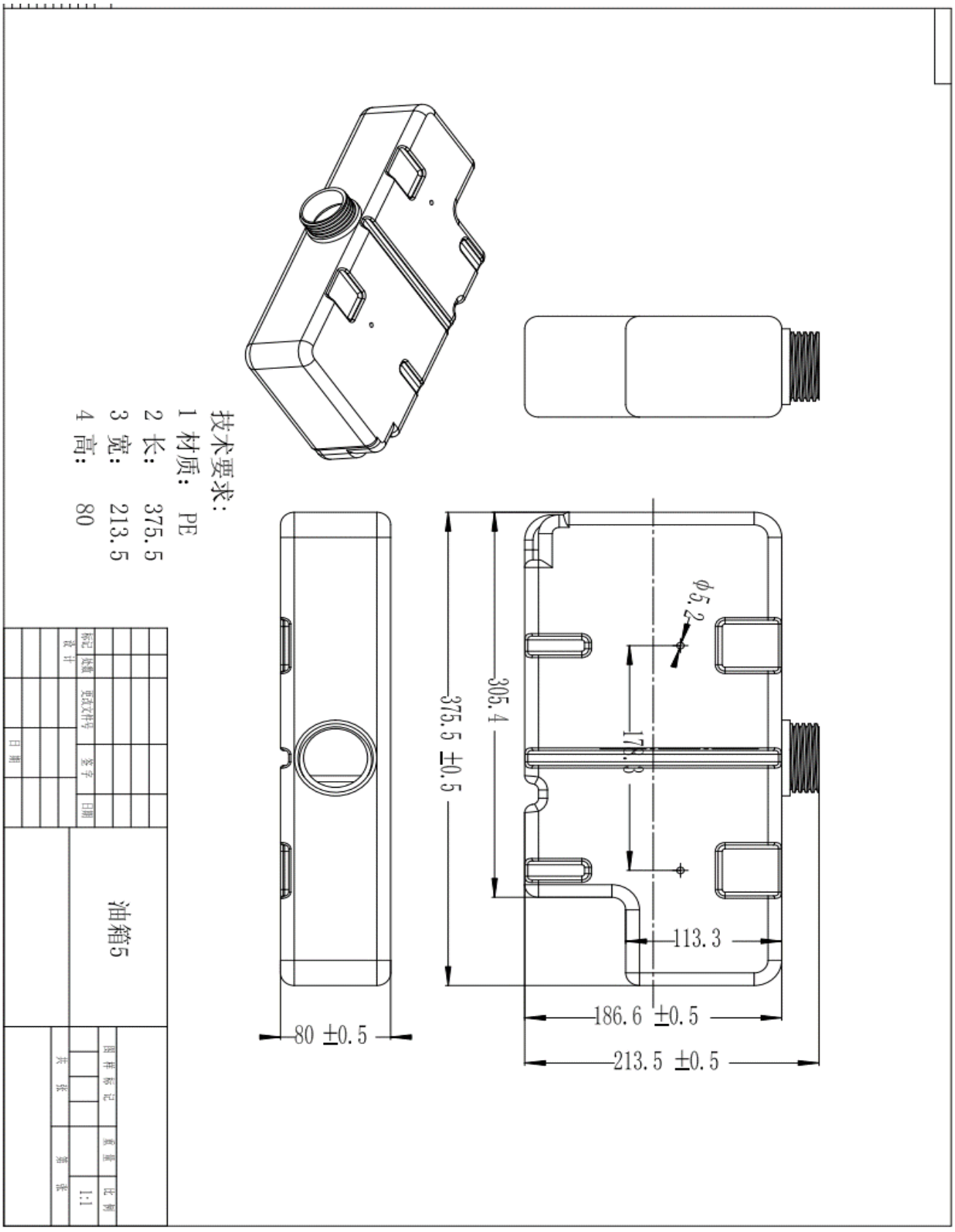
Illustration 5 - Motor view



型号 Motor Model No.:	HXL-4276-12V	确认书编号 Cert Doc No.:	KQR020

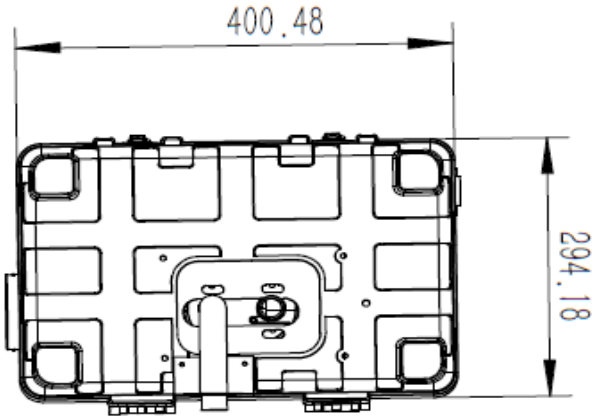
7.0 Illustrations

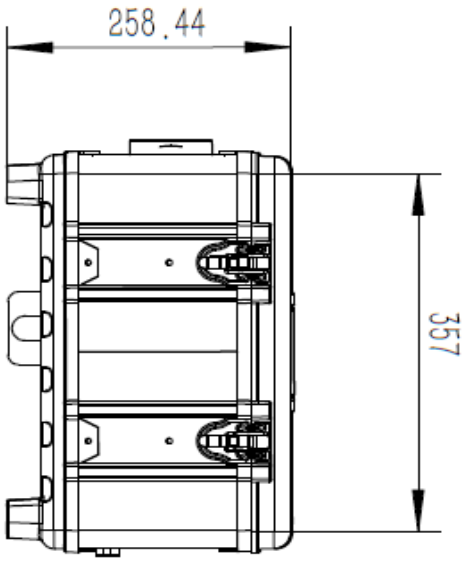
Illustration 6 - Fuel tank view

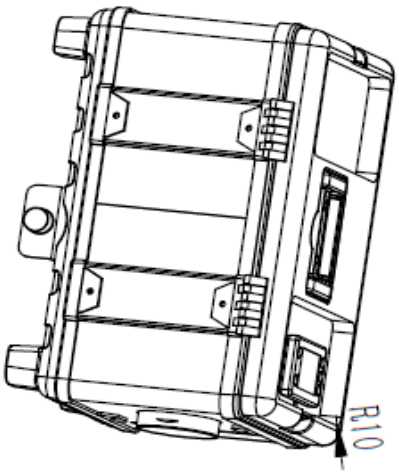


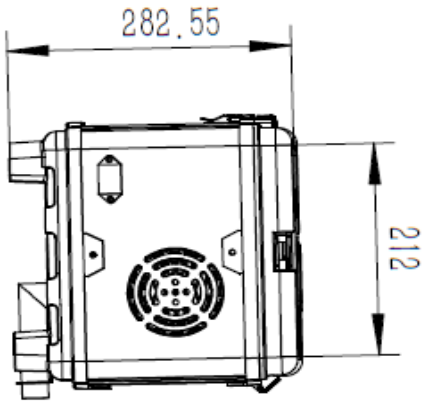
7.0 Illustrations

Illustration 7 -Cover Shell view



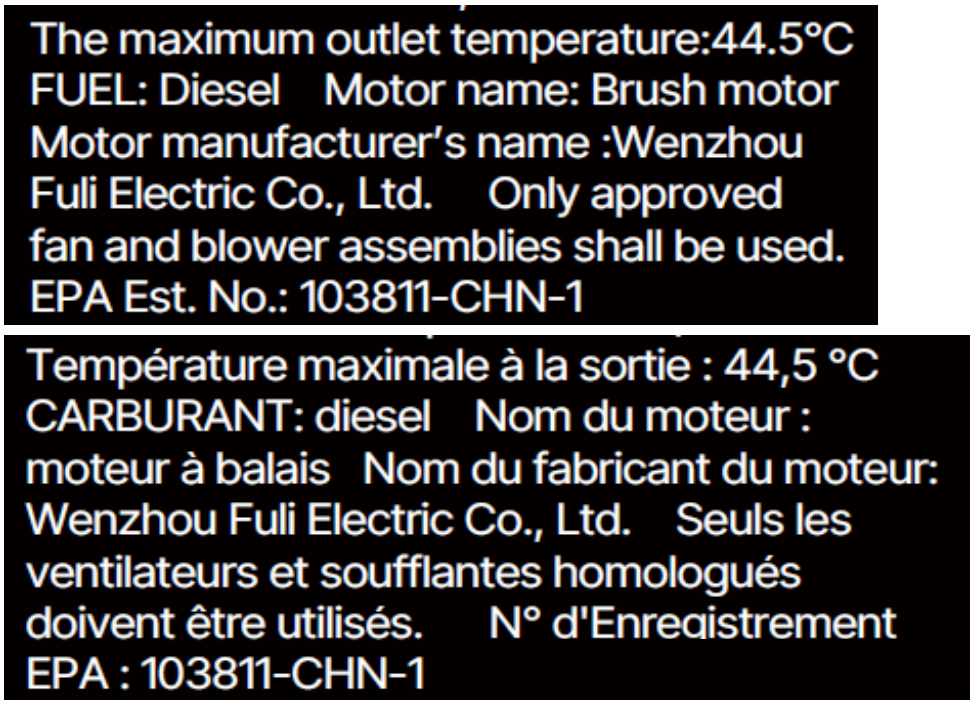






7.0 Illustrations

Illustration 8 -Cautionary Markings



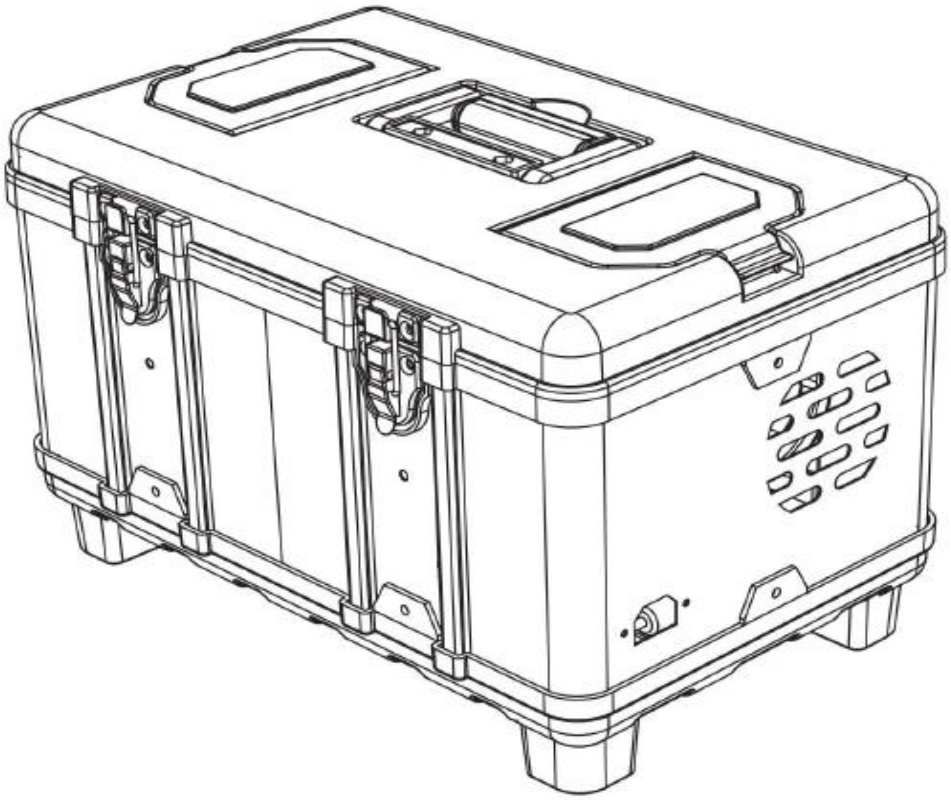
7.0 Illustrations

Illustration 9 -Cover page of Manual.

Sunster

Diesel Air Car Parking Heater

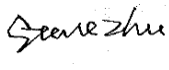
User Manual



8.0 Test Summary					
Evaluation Period	10-Feb-2026 ~ 30-Apr-2026			Project No.	260210150GZU
Sample Rec. Date	10-Feb-2026	Condition	Prototype	Sample ID.	S260210150GZU.005
Test Location	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch (Room 4103 & 4203, No. 63, Punan Road, Huangpu District, Guangzhou, Guangdong Province, China.)				
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 testing was performed.					

Test Description	Oil-Fired Air Heaters and Oil-Fired Direct-Fired Heaters [UL 733:2019 Ed.5]
Instrumentation	38
Initial Test Conditions	39
Combustion Test - Burner and Heater	40
Limit Control Cutout Test	42
Continuity of Operation Test	43
Temperature Tests	44
Continuous Operation Temperature Test	45
Blocked Inlet Test	46
Fan Failure Test	47
Stalled Fan Motor Test	48
Blocked Outlet Test	49
Maximum Wall Temperature Test	50
Short Circuit Test	51
Dielectric Withstand Test	52
Leakage Current Test	53

Test Description	Oil-Fired Warm-Air Heating Appliances for Mobile Housing and Recreational Vehicles [CSA B140.10:2006 Ed.2]
Combustion	7.2
Rated output capacity	7.3
Temperature safety limit control performance	7.4
Continuity of operation	7.5
Operating temperatures	7.6
Motor rating, air-circulating blowers, and fans	7.7
Air filters	7.8
Cyclic temperature test	7.9
Gas passageway leakage test	7.10
Oil containment test	7.11
Rigidity	7.12
General	8.1
Abnormal temperatures	8.2
Simulated wind test	8.3
Abnormal voltage	8.4
Power failure	8.7

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:	Ball Qiu	Reviewed by:	Steve Zhu
Title:	Project Engineer	Title:	Asst. Technical Manager
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	Renqiu Xinmaizhong Auto Parts Co Ltd
Address	No.3, Jingnan Innovation Industrial Park, North Linxing Road, Renqiu Economic Development Zone, CANGZHOU CITY Hebei
Country	China
Product	Diesel 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

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 Shenzhen Limited Guangzhou Branch
ETL Component Evaluation Center
Room 101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District
Guangzhou, Guangdong, China
Attn: Ms. Joey Kuang
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

The following manufacturing and production tests are intended to provide minimum quality control standards for Oil fired forced air heater.
The results of these tests shall be recorded and maintained by the manufacturer.
a) Inspection of all raw materials.
b) Check of the relationship between a constant-level device and a vaporizing burner of each heater. Distance from maximum normal level of oil to be maintained by a constant-level device in the burner to the lowest opening through which oil can overflow the burner is required to be not less than 3/4 inch (19.1 mm).
c) Examination of all vaporizing burners to ensure that they are free from defects. If of cast iron, the burner is to be tested for porosity and leakage by filling it with No. 1 oil and allowing it to stand for at least a 1/2 hour, or with mineral spirits for at least 5 minutes.
d) Inspection of combustion chambers and heat exchangers to determine conformance with manufacturing specifications.
e) Subjecting at least 3 percent of all constant-level valves with integral metering stems to a flow test before being mounted on the heater to assure that at specified adjustment the pilot fire flow rate does not exceed the amount specified.
f) In the case of power-operated burners not separately inspected, each burner or its essential components is to be tested to reveal and eliminate the following:
1) Oil leaks.
2) Electrical defects.
3) Misalignment.
g) Each burner not separately inspected is to be checked to determine:
1) Proper oil pressure.
2) Total motor input.
3) Proper adjustment of igniters.
h) If heaters are not assembled at the factory, the manufacturer is to periodically assemble a heater from production to check compatibility of the subassemblies. The components are to be capable of being readily assembled. It is suggested that one unit be so checked for each 100 units produced, but not more than one for each week or production.
i) Dielectric Withstand Tests on each heater incorporating high-voltage electrical circuit(s). The test shall be conducted in accordance with the requirements of the Production Line Dielectric Withstand Test.
j) Conduction of Grounding Continuity Tests.

11.1 Dielectric Voltage Withstand Test

Method

A 60 Hz potential as indicated below shall be applied between high-voltage live parts and dead-metal parts for a period of 1 minute, except that the time of application of the potential may be reduced to 1 second if the value of the test potential is 120 percent of the value shown.

a) 1,000 volts plus twice rated voltage, except as noted below.

b) 1,000 volts for motors rated at not more than 1/2 horsepower (373 W) and not more than 250 volts.

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:

Product	Test Voltage	Test Time
All products covered by this Report.	1000V	60 s

11.2 Grounding Continuity Test

Method

The manufacturer shall test each heater which has a power supply cord to assure electrical continuity between the device and the grounding blade of the attachment-plug cap, as required by 24.1.

For this test, the manufacturer is to employ a suitable resistance-indicating instrument with leads and terminals by which the grounding circuit continuity may be determined.

Where internal parts, as referred to in 24.1 are determined in the investigation of the device to be adequately bonded to the frame and enclosure of the heater, a test which determines the electrical continuity between the grounding blade and the frame or enclosure is sufficient.

Products Requiring Grounding Continuity Test:

All products covered by this Report.

12.0 Revision Summary

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

Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
				None