



*AUTOMOTIVE MANUFACTURERS EQUIPMENT
COMPLIANCE AGENCY, INC.*

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NOTIFICATION NUMBER: 161156

TEST REPORT DATE: SEPTEMBER 20, 2016

EXPIRATION DATE: JANUARY 1, 2020

*APPLICANT: NINGBO YONGJIA AUTO PARTS CO., LTD.
NO.5 MALANG ROAD,
MAZHU TOWN, YUYAO CITY, ZHEJIANG PROVINCE,
P.R. CHINA*

*ITEM: "YJ-8F"- EMERGENCY WARNING TRIANGLE - RED AND ORANGE IN
COLOUR*

USE: ON MOTOR VEHICLES

*JURISDICTIONAL COMPLIANCE STANDARD(S)
IDENTICAL TO: UNITED STATES FMVSS 571.125*

*MARKINGS: LENS: YJ-8F YJ (NINGBO YONGJIA AUTO PARTS LOGO) DOT
HOUSING: (NONE)*

*TEST LAB: INTEGRATED SERVICES OF
QUALITY ASSESSMENT
REPORT NUMBER: 125-ISOQA-16-051*



Executive Director



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125-ISOQA-16-051

SAFETY COMPLIANCE TESTING FOR FMVSS 125

ISOQA
60, Yong Long Rd,
Da-Li, Taichung
Taiwan, ROC

**- Final Report -***Archer Chang***20 September 2016**

Signature of Responsible Laboratory Official

Approval Date

PRODUCT INFORMATION

Report Number	125-ISOQA-16-051
Test Component	YJ-8F
Applicant	Ningbo Yongjia Auto Parts Co., Ltd.
Trade Mark	YJ
Marking	see equipment description section
Functions	Emergency Warning Device
Requirements	FMVSS 125

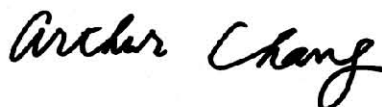
Test Item	Inspector	Date	Number of tested sample(s)
Equipment Description	Aaron Lin -	2016/8/30	1
Configuration Measurements	Aaron Lin -	2016/8/30	1
Conditioning Test	Aaron Lin -	2016/8/31	1
Color Test	Aaron Lin -	2016/8/31	1
Reflectivity	Aaron Lin -	2016/8/31	1
Luminance	Aaron Lin -	2016/8/31	1
Stability	Aaron Lin -	2016/8/25	1
Durability	Aaron Lin -	2016/8/25	1

EMERGENCY WARNING DEVICE TEST REPORT

Test Component : **YJ-8F**
 Manufacturer : **Ningbo Yongjia Auto Parts Co., Ltd.**
 Test Laboratory : **ISOQA**
 Test Date : **May 5~19, 2012**
 Report Number : **125-ISOQA-16-051**
 Number of devices tested : **see summary**

SUMMARY

Test Description	Test Result :	Number Passed	Number Failed
Equipment Description		1	-
Configuration Measurements		1	-
Color Test			
- Red Reflex Reflective		1	-
- Orange Fluorescent		1	-
- Dual Purpose		1	-
Reflectivity		1	-
Luminance		1	-
Stability		1	-
Durability		1	-



Signature of Responsible Laboratory Official

Title: Lab Manager

Date 2016/9/20

EQUIPMENT DESCRIPTION

Test performed by :

Aaron Lin -

Date :

August 30, 2016

EQUIPMENT	NON-CONDITIONED	CONDITIONED
MATERIAL AVAILABILITY		
Red Reflex Reflective	PASSED	PASSED
Orange Fluorescent	PASSED	PASSED
Dual Purpose	N/A	N/A
CONTAINER OR ENCLOSURE		
Opaque	YES	-
Protective	YES	-
MARKINGS		
Manufacturer	YES	-
Date of Manufacture	YES	-
DOT Symbol or Applicable FMVSS	YES	-
INSTRUCTIONS		
Permanency	PASSED	PASSED
Erection and Display	PASSED	PASSED
Positioning Illustration	PASSED	PASSED
Warning Lamp Activation	Does not applied	Does not applied

Remarks :

CONFIGURATION MEASUREMENTS

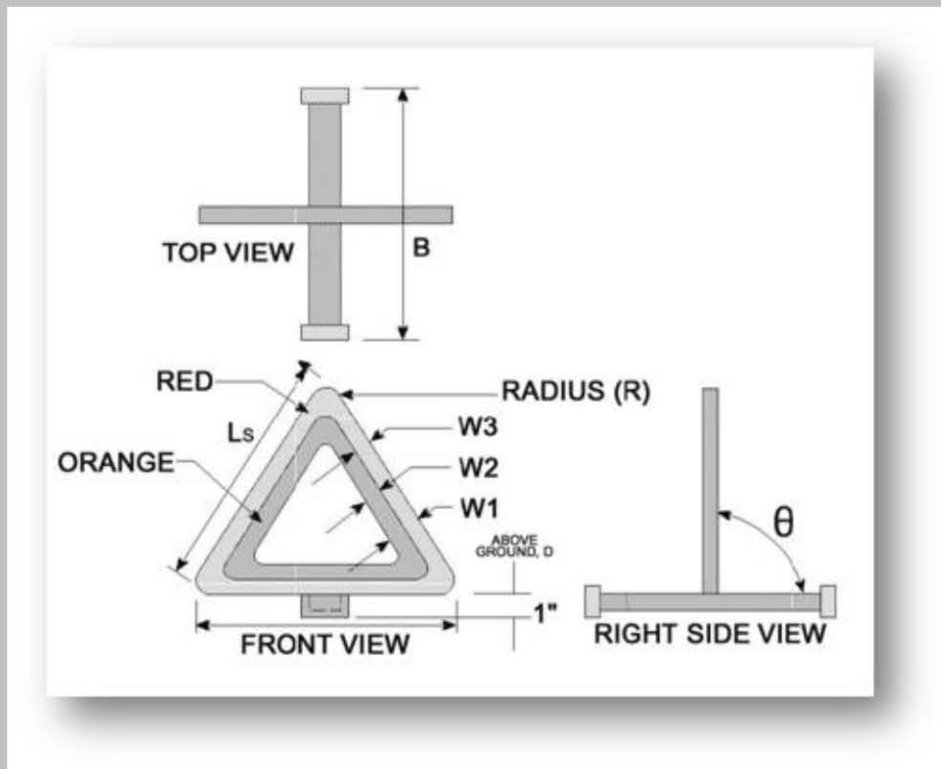
Test performed by :

Aaron Lin -

Date :

August 30, 2016

	ITEM	REQD MIN.	REQD MAX.	MEASURED	PASS	FAIL
θ	Angle from Normal	0°	10°	1.4°	X	
R	Radius	0.25"	0.50"	0.275"	X	
W1	Total Width	2.00"	3.00"	2.401"	X	
W2	Orange	1.25"	1.30"	1.299"	X	
W3	Red	0.75"	1.75"	1.102"	X	
W1	Dual Purpose	2.00"	3.00"	N/A	X	
Lb	Base Width of,	17.0"	22.0"	17.28"	X	
Ls	Side Length of,	17.0"	22.0"	17.32"	X	
B	Stabilizer Base Length			17.28"	X	
D	Min. Above Ground	1.0"	N/A	1.555"	X	



Remarks :

CONDITIONING TEST

Test performed by :

Aaron Lin -

Date :

August 31, 2016

Conditioning for Testing (Ref. S125, §6.1)

When required the test specimen shall be conditioned in the following sequence:

	Physical Tests	Exposure Condition	Time	Humidity
A	Low Temperature test	-40°F, +8°, -0°	16 hours, +0, -10 min.	30-70% at 70°F
B		70°F ± 10°	2 hours minimum	30-70% at 70°F
C	High Temperature test	150°F, +0°, -10°	16 hours, +0, -10 min.	30-70% at 70°F
D		70°F ± 10°	2 hours minimum	30-70% at 70°F
E	Humidity test	100°F, +0°, -10°	16 hours, +0, -10 min.	90%, +0, -10 at 100°
F		70°F ± 10°	2 hours minimum	30-70% at 70°F
G	Salt Spary test	Salt Spray	4 hours, +0, -10 min.	Ref. ASTM B-117
H		70°F ± 10°	2 hours minimum	30-70% at 70°F
I	Immersion test	Immersion in water at 100°F, +0°, -10°	2 hours ± 5 minutes	
J		70°F ± 10°	2 hours, +15, -0 min.	30-70% at 70°F

Inspection	Non - Conditioned	Conditioned
Warping/Distortion	Not Found	Not Found
Delamination or Joint Separation	Not Found	Not Found
Seizing of Joints	Not Found	Not Found
Discoloration	Not Found	Not Found
Rust or Corrosion on Metal Parts	Not Found	Not Found

Remarks :

COLOR TEST

Test performed by :

Aaron Lin -

Date :

August 31, 2016

CHROMATICITY COORDINATES		UNCONDITIONED	CONDITIONED
Red Reflex Reflective	x=	0.6707	0.6703
	y (≤ 0.33) =	0.3252	0.3221
Orange Fluorescent	x=	0.6097	0.6187
	y=	0.3627	0.3563
Dual Purpose	x=	N/A	N/A
	y=	N/A	N/A

Remarks :

REFLECTIVITY TEST

Test performed by :

Aaron Lin -

Date :

August 31, 2016

Observe angle	Entrance Angle		Minimum(mcd/lux)	UNCONDITIONED	CONDITIONED
0.2	0	0	80	234.576	220.458
0.2	H	10U	80	212.856	197.761
0.2	H	10D	80	195.914	186.032
0.2	20L	V	40	94.156	104.799
0.2	20R	V	40	100.346	94.373
0.2	30L	V	8	34.209	36.381
0.2	30R	V	8	33.557	33.449
1.5	0	0	0.8	4.887	3.236
1.5	H	10U	0.8	2.215	2.237
1.5	H	10D	0.8	2.163	2.183
1.5	20L	V	0.4	1.25	1.401
1.5	20R	V	0.4	2.932	2.11
1.5	30L	V	0.08	0.709	0.727
1.5	30R	V	0.08	0.851	0.737

Remarks :

LUMINANCE TEST

Test performed by : **Aaron Lin -** Date : **August 31, 2016**

Light source : 150-watt high pressure xenon compact arc lamp

Single Purpose Material :

Light Source - Plain **Red Reflex Material -** Separated

Dual Purpose Material: N/A

Angle of Incidence : 45° **Angle of Observation :** 90°

W2 : 1.3 inches

	REQUIREMENT	UNCONDITIONED	CONDITIONED
[Y _{Specimen} /Y _{MgO}] %	25%	61.00%	56.00%
% x Width	44.0%	79.30%	72.80%

Remarks :

STABILITY TEST

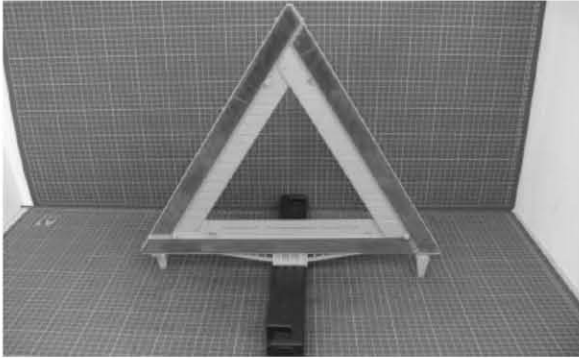
Test performed by : **Aaron Lin -** Date : **August 25, 2016**

Wind Velocity : 40 mph

Duration : 3 minutes

Wind Direction	Device Rotation (degree)		Device Movement (inch)		Tilt Angle (degree)	
	Requirement	Measured	Requirement	Measured	Requirement	Measured
0°	≤ 10°	0°	≤ 3 inches	less than 1 inch	≤ 10°	8°
180°	≤ 10°	0°	≤ 3 inches	less than 1 inch	≤ 10°	6°

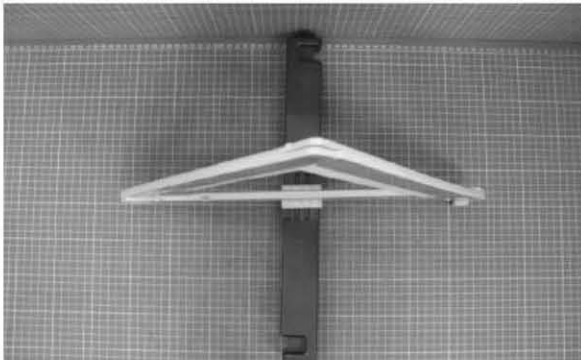
Remarks :



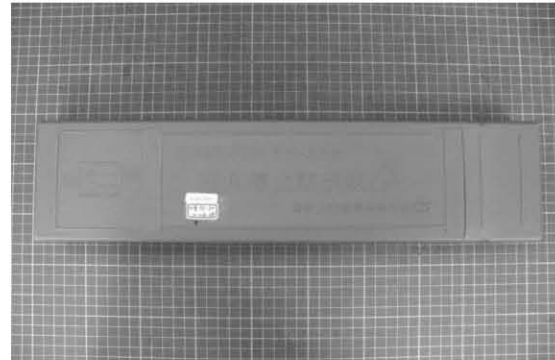
Front View



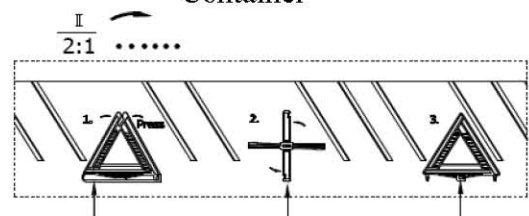
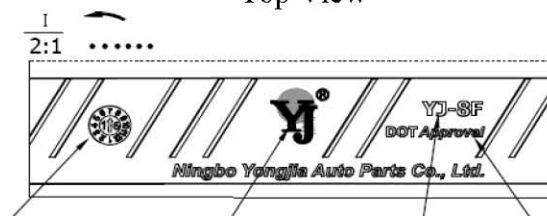
Side View



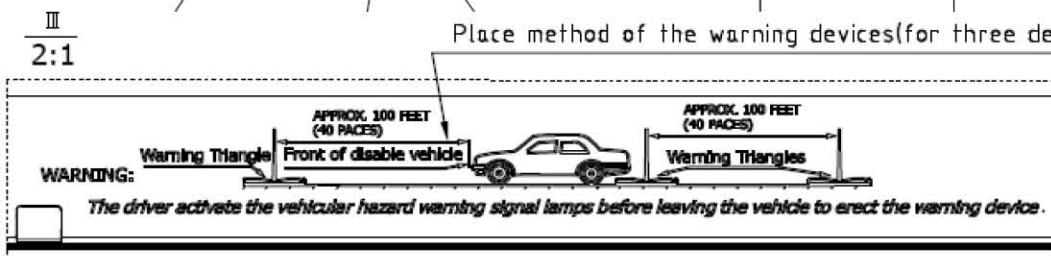
Top View



Container



Place method of the warning devices(for three devices)



TRADE MARK DOT YJ-8F
Marking on The Device