

KES

Measuring Intensity of Illumination of Back Lamp

KES T – P002

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1. Scope of application

This standard shall prescribe test for measuring suitability on Japanese regulation of all automobiles installing back up lamp for confirming the rear when automobile goes backward.

2. Using equipment

Using equipment for test are paragraph 3.1, 3.1.1 as follows

3. Test method

3.1 Test preparation

3.1.1 Preparatory things

No.	Name of equipment	Range	Quantity	Concomitant and use
1	LUX METER	0 -2000 Lx	1	
2	VOLTAGE REGULATOR POWER	50 A/40 V	1	Reel, 220-110V transform Plug
3	VOLTMETER, (DMM)	DC0 -30 V	1	
4	HEIGHT GAUGE	2 m	1	
5	SPANNER	10 -12 mm	1	
6	MEASURING TAPE	More than 2 m	1	
7	SCREEN	2 m ×3 m	1	
8	STEEL SCALE	0 –15 mm	1	
9	PAPER TAPE			
10	PAPER	Use A3	8 sheets	
11	STRING		15 m	
12	WEIGHT		1	For Perpendicular Measuring
13	RUBBER WEIGHT	5 kg	11 EA	
14	JACK (JACK, LIFTER)		1	A/T Automobile

3.1.2 Test automobile

Test automobile shall be A/T or M/T automobile installing all electric load of mass production automobile

3.1.3 Test preparation

(1) Move automobile over horizontal plane and open bonnet

(2) Set measuring equipment's on each measuring point

(SCREEN, P/SUPPLY, JACK [A/T AUTOMOBILE ONLY] , E/G RPM SETTING JIG)

3.2 Suggestions before measuring

(1) There is no reflected light object of the circumstance.

(2) Fix screen on floor for protecting movement of screen. (Use a tape)

(3) Operate ventilating fan for ventilation in a room

3.3. Test condition and method

3.3.1 Test condition

(1) Operate test in dark room that can cut off light of outside or in the place equal to that.

(2) Test automobile have rubber weight of 55 kg in driving seat, measure it in condition of blank automobile.

Remark : Condition of blank automobile is state of removing spare tire and jack from automobile condition and filling fully fuel.

(3) Adjust air pressure of 4 tires of test automobile to specification of automobile.

For example : Frt : ? kg/cm², Rr. : ? kg/cm²

(4) Floor of measuring place is horizontal.

3.3.2 Test method

(1) Measuring terminal voltage in back lamp of real automobile.

- (a) Open trunk door and prepare for measuring terminal voltage at back lamp connector.
- (b) 1 person of tester is in riding at driving seat and start automobile.
- (c) Step on clutch and set back gear, then regulate E/G rpm of automobile as
2000 ~ 3000 rpm.

Note

Rider pays attention to not taking off foot from clutch until measurer completes measuring terminal voltage of back lamp.

- (d) 1 person of another measurer measures voltage between both terminals of back lamp (rh, lh) connector by voltmeter and record it on data sheet.
- (e) Turn off automobile when measuring finishes.

In case of A/T automobile

- Step on brake in condition that gear change lever is in “R” position and measure in condition of real drive in lifter.

(2) Measuring “0” BL of automobile.

- (a) Load driving seat of automobile with rubber weight of 55kg.
- (b) Adjust air pressure of 4 tires of test automobile to specification of automobile.

For example : J38W Frt : 2.0 kg/cm², Rr. : 2.0 kg/cm²

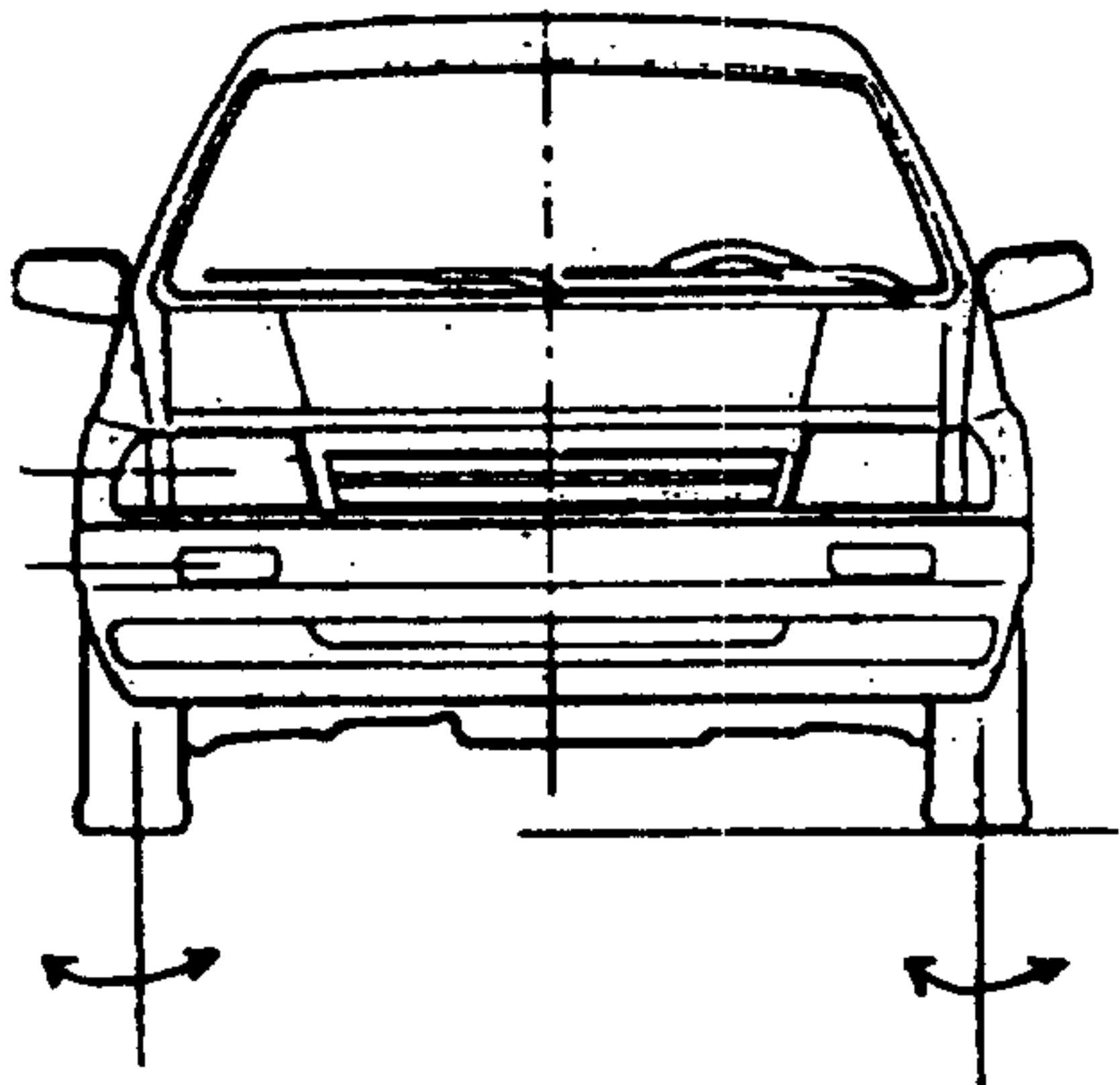
- (c) Have a proper plan for setting point of automobile.

That is, screen can be positioned in 1m rear of automobile and floor at where automobile and screen are positioned should be horizontal.

(d) Regulate 4 wheels of automobile on parallel and move automobile back a little bit.

Note

At this time, be care of front wheels not twisting from side to side.



(e) Lay prepared paper on the place that automobile moved, fix the paper with tape for protecting its rolling.

(f) Push and move automobile on paper, after tire mark printed, move automobile 300 mm back again.

(g) Express Frt. and Rr. center point of automobile as following drawing using tire mark of automobile.

