KES

LEAK TESTER Specification

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1. Scope of application

This shall examine the Air Leak Tester necessary for high quality of vehicle production assembly line and achieve high quality and credibility by applying this theories when conducting the new line.

And with regard to the Leak Test method there are various methods like the first is to inject oil directly and to compress it for measurement, the second is flooded test method, the third

is the method in which to apply Air Leak Tester and so on but this shall be applied to Air Leak Tester for the mass production and early quality guarantee.

2. Definition of terms

(1) IC : Intensive circuit

(2) Diaphragm : Vibration board, diaphragm

(3) Solenoid Valve : Needle valve of decompression valve vacuum type

(4) Charge time

Time required for supplying air to work and master simultaneously through air operation valve that becomes open by the electric passage of Solenoid valve.

(5) Balance time

It is a time to be maintained not to wrongly alarm until the pressure gap gets stable in case of No leak or small leak with no view to keeping the Master indication to the degree of decrease because air operation valve gets closed by the electric passage of Solenoid valve and the pressure is detected by leak, and in case of large deal of leak it becomes an alarm of Master being shaken in between.

(6) Detect time

Time to judge NG.(NO Good) or OK by detecting the disproportionate air within work.

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3. Structure and principle of air leak tester

3.1 The structure of air leak tester

3.1.1 Controlling parts

(1) Displacing type of air filter

(2) Solenoid valve

(3) Decompression valve

(4) Pressure gauge

(5) Controller

3.1.2 Detecting parts

(1) Pressure gap sensor

(2) Amplifier

(3) Air operation valve

(4) Air filter (Work, Master usage)

3.1.3 Attachments

(1) Power controlling part

(2) Others

3.2 Principle of air leak tester

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