

Transmitted by the expert from Japan

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 116

Note: The text reproduced below was prepared by the experts from Japan. The amendments to it are marked in **bold characters**.

A. PROPOSAL

Part II Paragraph 6.4.2.1., amend to read:

"6.4.2.1. Operation tests

For the operation tests required according to paragraphs, 6.4.2.3., 6.4.2.4., 6.4.2.5., 6.4.2.6. and 6.4.2.8.4. if some of the tests required in each of these paragraphs prior to the operation tests are performed in series on a single VAS, the operation test may be carried out one time only after the chosen tests are completed instead of performing the operation tests required in the paragraphs after each of the chosen tests."

Part II Paragraph 6.4.2.3., amend to read:

"6.4.2.3.shall be repeated.

The approval test may be conducted with the system installed in the vehicle, if the system is installed to the vehicle as an original equipment. "

Part II Paragraph 6.4.2.6., amend to read:

"6.4.2.6 with fuses changed if necessary.

The above provision may not apply when the system is installed to the vehicle as an original equipment. "

Part II Paragraph 6.4.2.7., amend to read:

"6.4.2.7. alarm system including status display.

The above provision may not apply when the system is installed to the vehicle as an original equipment. "

Annex 9 Paragraph 1., amend to read:

"1. Immunity against disturbances conducted along supply lines

Apply the test pulses 1, 2, 3a, 3b, 4 and 5 according to the International Standard ISO 7637-1:~~1990~~**2004** to the supply lines as well as to other connections of VAS/AS which may be operationally connected to supply lines.

In the case of VAS/AS which detect the electrical supply desorption, the alarm may sound provided VAS/AS is in set state and the electrical supply to the VAS/AS is desorbed.

When VAS/AS is installed as an original equipment and if the alternator is not installed in the vehicle, test pulse 5 may not apply.

VAS/AS in unset state

.....

Electrical disturbance from electrostatic discharges

Immunity against electrical disturbances shall be tested in accordance with Technical Report ISO/TR 10605-1993.

The above provision may not apply when the system is installed as original equipment and user can not access the part normally. "

B. JUSTIFICATION

Part II Paragraph 6.4.2.1., :

This proposal is to add an optional procedure for this regulation to streamline the operation tests repeatedly required according to paragraphs 6.4.2.3., 6.4.2.4., 6.4.2.5., 6.4.2.6. and 6.4.2.8.4. by taking more rigorous condition.

Performing some of the tests required in these paragraphs prior to the operation tests in series for a sample is more rigorous than performing one of these tests before performing the operation test with regard to test condition.

According to this amendment, manufacturers can choose this option to decrease their work for obtaining type approval, when they have enough quality for a VAS to do so.

Part II Paragraph 6.4.2.3.,:

The original equipment has been installed to the vehicle. Therefore, it is unnecessary to test as a component.

Part II Paragraph 6.4.2.6.,:

We believe that the purpose of this requirement is for prevention breakdown when one installs aftermarket systems.

Part II Paragraph 6.4.2.7.,:

We believe that the purpose of this requirement is for prevention running out of battery when the aftermarket systems are installed. In the case of original equipment or system in the vehicle, it always has been controlled the total current value of the vehicle.

Annex 9 Paragraph 1.,

Immunity against disturbances conducted along supply lines

- Update to the latest ISO standard version.
- The alarm activated by the test pulse of VAS/AS which detect the electrical supply desorption is not a false alarm.
- Since test pulse 5 is simulated test for noise created by desorption of alternator, the test should be conducted according to the state of alternator.

Electrical disturbance from electrostatic discharges

The purpose of this requirement is for the assurance of resistance characteristics on electrostatic discharge. Therefore, it is not necessary to apply to the parts where the user can't access normally.
