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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Rear-view mirrors requirements for agricultural and forestry
tractors**

(English Translation)

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Table of Contents

Foreword...	3
1 Scope...	4
2 Normative references...	4
3 Terms...	4
4 Performance requirements...	7
5 Installation requirements...	11
6 Measurement and devices and test methods...	12
7 Inspection rules...	24
8 Marking, packaging, transportation and storage...	26

1 Scope

This Standard specifies the definitions, performance requirements, installation requirements, test methods, inspection rules and marking, packaging, transportation and storage of rear-view mirrors for agricultural and forestry wheeled and crawler tractors.

This Standard applies to the agricultural and forestry wheeled and crawler tractors.

2 Normative references

The provisions in the following documents become the provisions of this

Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, parties who reach an agreement based on this

Standard are encouraged to study if the latest editions of these documents are applicable. For undated references, the latest editions apply to this

Standard.

QC/T 625-1999 Metallic coatings and conversion coatings for automobile

QC/T 484-1999 Automobile paint coatings

ISO 5353:1995 Earth-moving machinery, and tractors and machinery for agriculture and forestry - Seat index point

3 Terms

The following terms and definitions are applicable to this Standard.

3.1 Rear-view mirror

A device that is able to see the rear and side images of the tractor within the vision specified in 3.10.

3.2 Interior rear-view mirror

A device that meets the vision defined in 3.1 and is mounted in the tractor cab.

3.3 Exterior rear-view mirror

A device that meets the vision defined in 3.1 and is mounted on the outer surface of the tractor.

3.4 Class of rear-view mirror

Various rear-view mirrors with one or more common features or functions.

Class I is an interior rear-view mirror; and Class II is an exterior rear-view mirror.

3.5 Center of the mirror

The center of mass of the visible area on the reflecting surface.

3.6 Principal radius of curvature at one point obtained on the

reflecting surface (r_i , r_i')

The radius of curvature measured by the instrument specified in 6.3.1 through the center of the reflecting surface, parallel to the line segment b of the mirror and perpendicular to the direction of the line. See 4.3.1.2 for the determination of line segment b .

3.7 Radius of curvature at one point on the reflecting surface (r_{pi})

Refer to the arithmetic mean value of the principal radius of curvature:

Where:

r_{pi} - Radius of curvature at the i th point, in millimeters (mm);

r_i , r_i' - Principal radius of curvature measured in two mutually perpendicular directions at the i th point, in millimeters (mm).

3.8 Radius of curvature of the constituent parts of the rear-view mirror

(C)

C refers to the radius of the arc of the curved shape of the components such as protective frame, support frame, and connecting member of the rear-view mirror.

3.9 Driver's ocular points

4.1.5 For the edge of the fixed hole or recess with a diameter or a maximum diagonal of less than 12mm on the rear-view mirror, if it has been rounded, the requirements for radius of curvature in 4.1.4 are not necessarily met.

4.1.6 The connection of the rear-view mirror to the tractor is designed to ensure that the rear-view mirror is offset from the axis of rotation or the center of rotation in the direction of impact, or either of them, to form a cylinder with a radius of 50mm. The cylinder shall be cut at least to the surface portion to which the connector is attached.

4.1.7 For exterior rear-view mirrors, if the parts involved in 4.1.3, 4.1.4, and

4.1.5 are made of materials not greater than Shore hardness of A60, it is not necessary to meet the above requirements.

4.1.8 For interior rear-view mirrors, if the parts on the rear-view mirrors are made of materials less than Shore hardness of A50 and mounted on a steel support, the tests of 4.1.3 and 4.1.4 apply only to this support.

4.2 Appearance requirements

4.2.1

Under the illumination condition of 500 lx, when the mirror surface is viewed from the 45° direction at 500mm from the naked eye, there shall be no defects such as deformation, blur, streaks, bubbles, scratches, cracks and inclusions on the rear-view mirror surface.

4.2.2

Rubber parts shall not have obvious defects such as damages and cracks.

4.2.3

Plastic parts shall not have obvious defects such as fading, cracks, scratches and deformation.

4.3.1.1 Interior rear-view mirror (Class I)

It shall be possible to draw a rectangle with a base of a and a height of 40mm on the reflecting surface. The size a is calculated according to the Formula (2).

Where:

4.4.3.2 The difference between r_{pi} (r_{p1} , r_{p2} and r_{p3}) value and r value of the radius of curvature at any point shall be no more than $0.15r$.

4.5.1 The reflectance value determined according to the method specified in

6.4 shall be not less than 40%. If the rear-view mirror has two working positions (daytime and nighttime), the color signal of road traffic shall be correctly recognized when it is in the daytime position, and the reflectance value at nighttime position shall be no less than 4%.

4.5.2 Except for long-term rear-view mirrors under extremely harsh weather

conditions, the reflectance shall meet the reflectance values specified in 4.5.1 during normal use.

4.6 Impact resistance and bending resistance

4.6.1

The rear-view mirrors shall be subjected to an anti-impact test in accordance with 6.5 and subjected to an anti-bending test in accordance with

6.6.

4.6.2 When the rear-view mirror performs the anti-impact test specified in

6.5 and the anti-bending test specified in 6.6, the reflecting surface shall not be broken, but the following two conditions may be considered as meeting the requirements:

4.6.2.1 The shards of glass remain attached to the protective casing or to

objects that are firmly attached to the protective casing. The glass is allowed to partially detach from the above portion, but the length of any side of the rupture shall not exceed 2.5mm. At the point of impact, small shards are allowed to detach from the above portion.

4.6.2.2 The reflecting surface is made of safety glass.

4.6.3 For the rear-view mirror attached to the windshield glass, if the

support member of the rear-view mirror is damaged during the impact test, the residual part of the protruding base shall be no more than 10mm, and the shape shall still meet the requirements of 4.1.4 and 4.6.2.