NUMBER OF VEHICLES IMPACTED
Paragraphs 6.4. to 6.4.2. amend to read:

6.4.

Windscreen wipers

6.4.1. The windscreen wiper fittings shall be such that the wiper shaft (number 1 in Figure 0) is furnished with a protective casing (number 1.1 in Figure 0) which has a radius of curvature meeting the requirements of paragraph 5.4. above and an end surface area of not less than 150 mm\(^2\). The holder (head, main and/or other parts, i.e. numbers 2, 2.1 and 2.2 in Figure 0) are designed with a radius of curvature meeting the requirements of paragraph 5.4. above. In the case of rounded covers, these shall have a minimum projected area of 150 mm\(^2\) when measured not more than 6.5 mm from the point projecting furthest. These requirements shall also be met by rear window wipers and headlamp wipers.

6.4.2. Paragraph 5.4. shall not apply to the wiper blades (number 4 in Figure 0), or hinge to supporting members (number 3 in Figure 0) or to the functional hinge between the holder head and the holder. However, these units shall be so made as to have no sharp angles or pointed or cutting parts.

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**Figure 0**

Example of parts distribution

1 – Wiper shaft
1.1 – Protective casing
2 – Holder head
2.1 – Main holder
2.2 – Second holder
3 – Supporting members
4 – Wiper blades
All Regions
W. Europe + E. Europe + Russia + Turkey + Japan + China

53% of vehicles are impacted by 2.5mm radius regulation change proposal
Results per Region

Status (Thousands of vehicles)

- **WEU**: Green bars represent "OK: Hidden arms by Electronised motors" and red bars represent "NOK: Visible Rod arm".
- **EEU incl RU**: Green bars represent "OK: Visible Style arms".
- **JP**: Green bars represent "OK: Visible Style arms".
- **CH**: Green bars represent "OK: Visible Style arms".

Legend:
- **OK**: Green bars
- **NOK**: Red bars
- **Visible Style arms**: Green bars
- **Hidden arms by Electronised motors**: Green bars
- **Visible Rod arm**: Red bars
Results per Segments

- **W. Europe**

- **E. Europe inc. Ru**

- **Japan**

- **China**
TECHNICAL / ECONOMICAL IMPACT
## Summary of solutions

<table>
<thead>
<tr>
<th>Solution</th>
<th>Weight Impact per vehicle</th>
<th>Price impact at Carmaker level</th>
<th>Reason for price impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Put a complete cover on the rod arm</td>
<td>+ 100g</td>
<td>120</td>
<td>Amortization of specific tooling per vehicle + overprice of part</td>
</tr>
<tr>
<td>Increase thickness of arm components</td>
<td>+ 300g</td>
<td>125</td>
<td>Amortization of new processes and toolings and additional material for parts</td>
</tr>
<tr>
<td>Move from rod arm to style arm</td>
<td>+ 200g</td>
<td>130</td>
<td>Amortization of specific tooling per vehicle + overprice of part</td>
</tr>
<tr>
<td>Move from Continuous motor to Reversible motor</td>
<td>- 250 g</td>
<td>170</td>
<td>Additional electronic Hardware and Software</td>
</tr>
</tbody>
</table>