Model 16
Parallel windshield wipers

Date

Name

Class

DESIGN TASK

The eccentricity must again be a few millimeters. This can be easily adjusted by trial and error.

THEMATIC TASK

1. As with the other models, the eccentricity must be a few millimeters. It should be the same for both eccentrics.

2. If we want the wiper on the driver's side to start first, the left eccentric must be slightly ahead and the right eccentric slightly behind, as seen from the gearbox to the wipers, i.e., "from the inside."

EXPERIMENTAL TASK

1. The model works best with an offset of two to three teeth between the Z20.

2. If the offset is too large, one wiper blade is already or still in the field of vision of the windshield when the other is in the rest position at the very outside. This is undesirable because it obstructs the view.

APPENDICES

Date

Name

Class

Building instructions and templates for the models:

Model 16: Construction manual for parallel windshield wipers.

Further information

[1]Wikipedia: Parallelogram guide.

[2]fischerwerke: Lead and lag. In: fischertechnik Experiments+Models, hobby 1 Volume 2, 1973. In the fischertechnik database (PDF, direct link), p. 5053.