



# Kangoo

Type

S/Section

FC0	X
KC0	X

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## DEVELOPMENT OF FRONT WIPERS ON RIGHT-HAND DRIVE VEHICLES

- Engine: **XXX**
  - Gearbox: **XXX**
- Basic manual: **MR 325**

This note deals with the special features of the new front wiper mechanism on right-hand drive vehicles.

The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed."

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### REMOVING THE MECHANISM

Check that the motor is in the park position and disconnect the battery.

Note the resting position of the wiper arms.

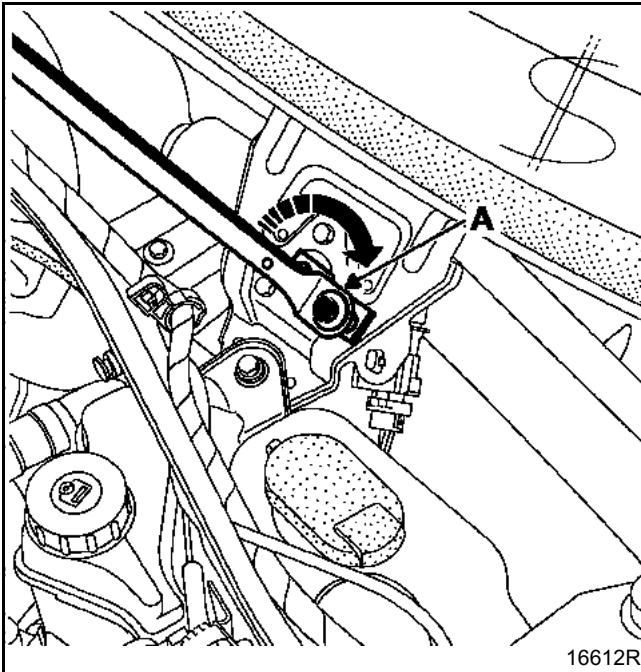
Open the bonnet.

Remove:

- the wiper arms using special tool **Elé. 1294-01**,
- the scuttle panel grille seal,
- the scuttle panel grille after removing the two side covers and disconnecting the washer pipes.

### The mechanism on the driver's side

Place the engine stub axle (A) opposite park position by turning it manually.



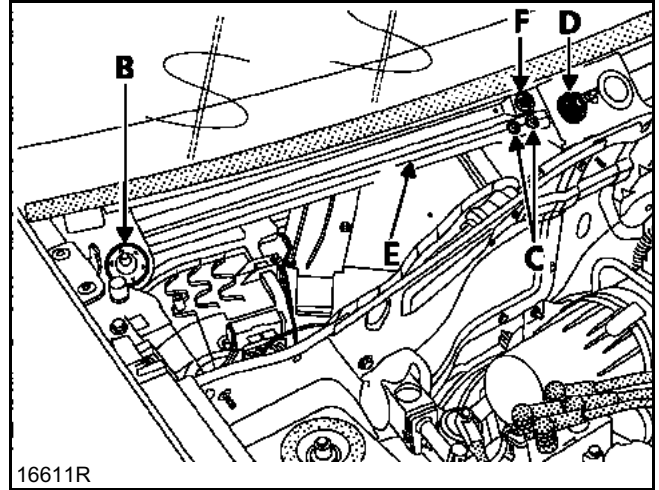
Remove:

- the wiper bearing nut (B),
- the two mounting bolts on arm (C).

Unscrew the nut (D) of the central bearing so that the arm can be removed (E).

Unclip the ball-and-socket joint (F).

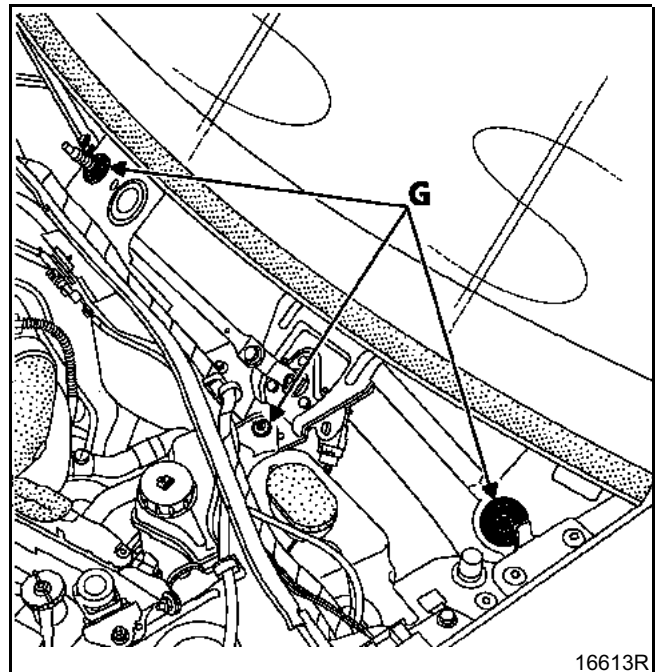
Remove the whole unit.



### The mechanism on the passenger side

When you have removed the mechanism on the driver's side:

- disconnect the engine's electric connector,
- remove the three mechanism mounting bolts (G),
- remove the whole unit.

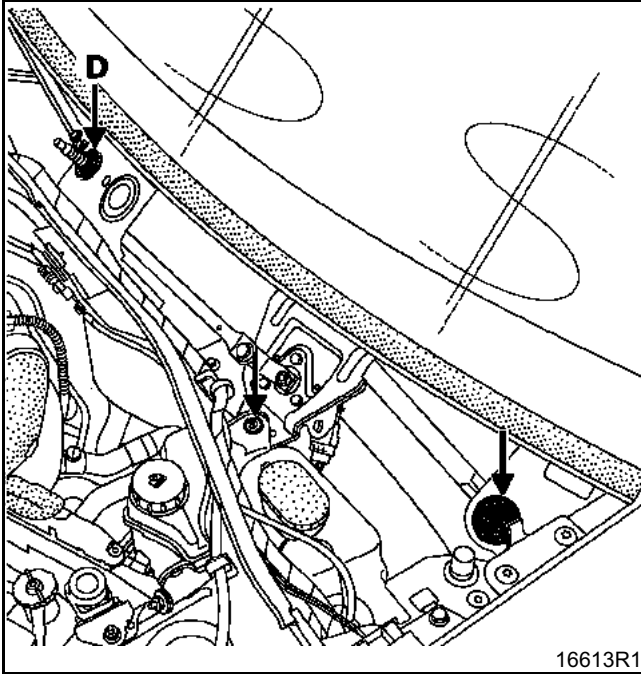


### REPLACING THE MECHANISM

#### The mechanism on the passenger side

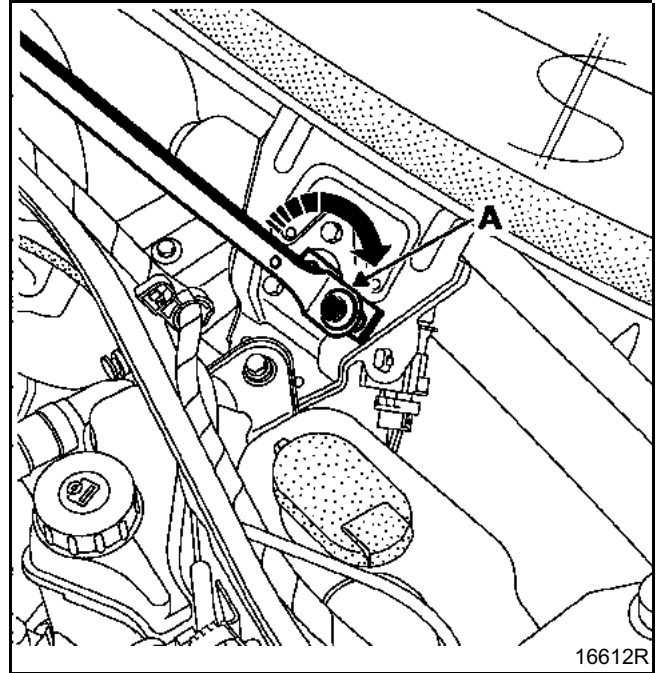
Reposition the mechanism on the vehicle.

Fit the mechanism at the three points without tightening the central bearing nut (D).



Once the battery is disconnected, position the engine stub axle (A) opposite park position by turning it manually.

Reconnect the engine's electric connector.



#### The driver's side mechanism

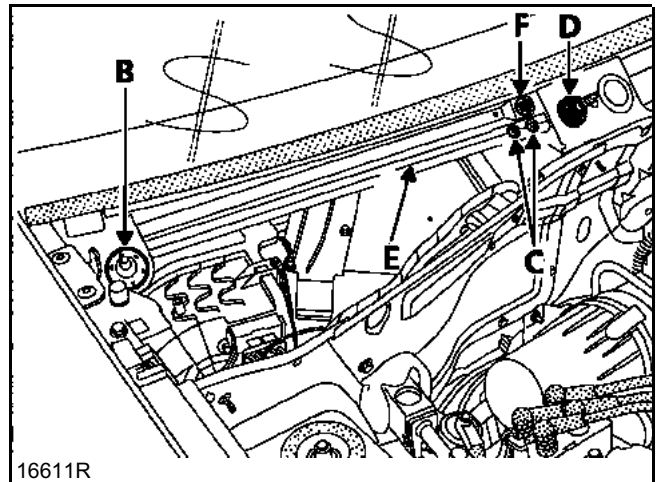
Reposition the mechanism.

Clip on the ball-and-socket joint (F).

Refit:

- the bearing on the driver's side using the nut (B)
- the arm using the two mounting bolts (C).

Tighten the central bearing nut (D).



# WIPERS

## Front wipers

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Refit the scuttle panel grille, its two side covers and the seal after reconnecting the washer pipe.

Clean the splines of the wiper arm pins using a metal brush.

**WARNING:** put the wiper motor back to park position before refitting the wiper arms.

Refit the wiper arms, locating the blade on the marks made on removal.

Fit new nuts and torque tighten **18 N.m ( $\pm 15\%$ )** using a torque wrench.