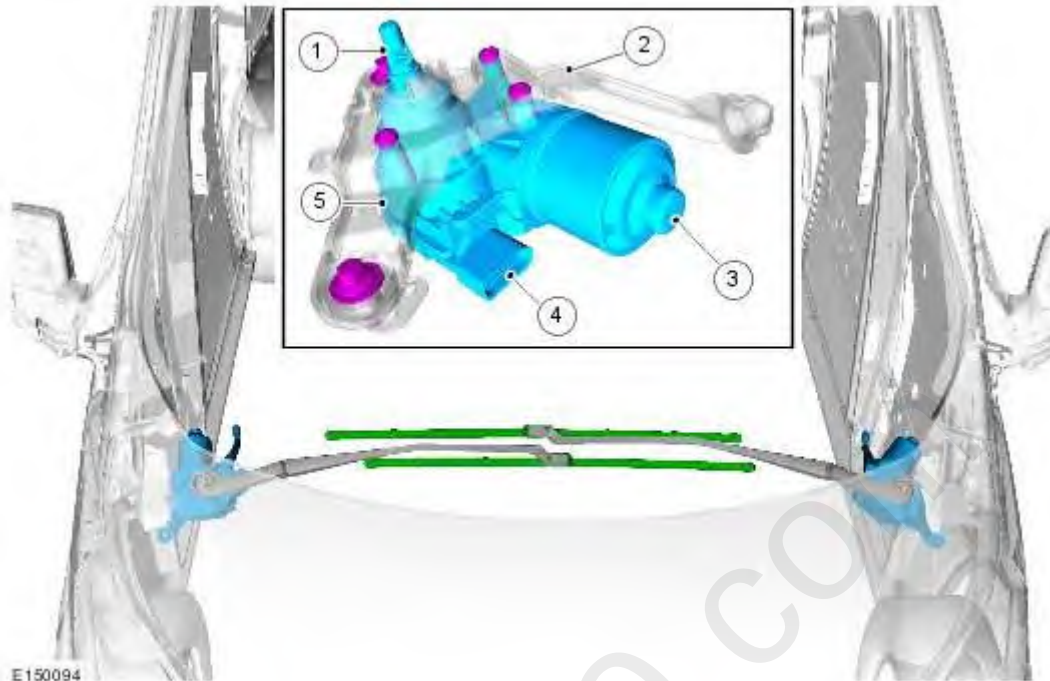


Description and Operation

General information

Illustration shows [LHD \(left-hand drive\)](#)



Item	Description
1	Driveshaft, front windshield wiper arm
2	Wiper motor bracket
3	Wiper motor
4	Electrical connection (4-pin)
5	Integral electronics

The **drive** of the front windshield wiper arms is provided **directly** (direct drive) via two separate, counter-rotating wiper motors. An additional wiper linkage is therefore dispensed with.

Electronics are integrated in each wiper motor. The [BCM \(body control module\)](#) controls the **driver side** wiper motor via the [LIN \(local interconnect network\)](#) databus.

The driver side wiper motor communicates with the passenger side wiper motor via a **separate data cable**. Here,

- the wiper motor on the **driver side** is the **master** and
- the wiper motor on the **passenger side** is the **slave**.

Both wiper motors look identical from the outside. The software for both motors is also almost identical, apart from the difference in design with regards to the direction of rotation. However, the left and right-hand wiper motors do differ in terms of the **shape of the bracket**. The bracket and wiper motor are only available as a single component in service. This eliminates the risk of any mix-up.

When the wiper motors are first taken into operation the master/slave assignment is performed automatically. This is defined by the pin allocation of the relevant wiring harness connector:

- On the master (driver side), all of the pins of the 4-pin connector are assigned. In the process, pin 1 provides the LIN connection to the BCM.
- On the slave, pin 1 (LIN) is **not** assigned.

The wiper blade on the driver side is 750 mm long while that on the passenger side is only 700 mm long.

Service instructions

Service position

In order to replace the windshield wiper blades, both wiper arms need to be moved to the service position.

Alignment of the windshield wiper arms during assembly



NOTICE: Before the windshield wiper arms are installed, the ignition must be switched on and the windshield wipers must pass through one wipe cycle. This is done by pressing the wiper lever once downwards. This ensures that the wiper motors are in the starting position (park position). The ignition must remain on during the process of installing new wiper arms. During installation of the wiper arms, the wiper arm on the driver side must be set to the mark and installed above the wiper arm on the passenger side.

During **installation of the windshield wiper arms** the driver side wiper arm must be mounted horizontally and above the **passenger side** arm.

NOTE: On both LHD and RHD vehicles, there is a marking on the windshield for the alignment of the wipers.