

Technical information

Control, swirl covers (induction pipe) 2100009

The control, swirl covers (OE 059 129 086 M*) activates the swirl flaps in the intake manifold through a connection rod.

If a malfunction appears please proceed as follows:

- Readout error memory.
- Check swirl flaps and connection rod for ease of movement and play. Therefore unlink the connection rod at the swirl flaps and check manually.
- Existing sediments at the swirl flaps and intake manifold need to be removed while the item is dismantled .

If necessary you can change single components or the whole intake manifold.



Image 1: Air flap actuator, swirl flaps

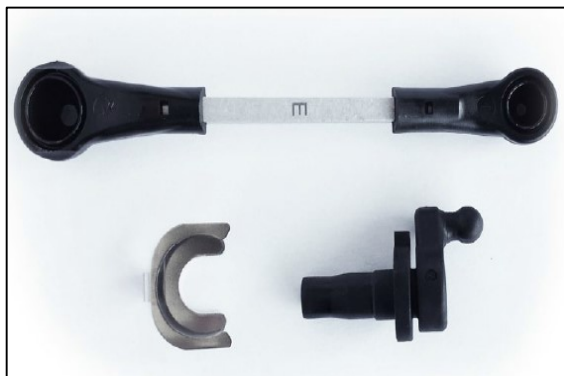


Image 2: Repair kit VW/Audi 059 198 212*

General information

- Please observe the manufacturer's guidelines.
- Programming is only possible with according equipment.
- This product is electrostatic sensitive. Please consider the respective ESD-regulations.

Technical information

After successful repair **the complete swirl flap system has to be programmed** (Actuator, including driven parts).

If the car has two controls please program both including driven parts.

For programming, please use only the following VDO special tools (it is obligatory to have the latest software status installed)!



Image 3: VDO VAS 6395A*
(Related picture)



Image. 4: VDO VAS 6395B*
(Related picture)

Connection rod

The control is connected to the swirl flaps with a connection rod → Image 2. The connection points wear out, which can lead to malfunction.

The programming process can be affected by exceeding play of the air flaps actuator and can **lead to errors**.

If the repair kit has been changed only after unsuccessful teaching process, the air flap actuator **must be deleted actively and has to be programmed again**.

Your Werner Metzger Team

*Brand and competition numbers are only for comparative purposes.