

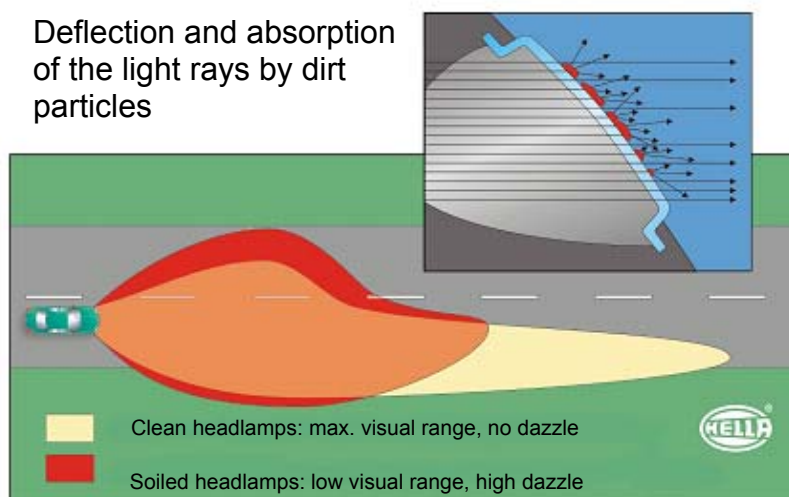


## Headlamp power wash systems

### General information:

According to legislation, a headlamp power wash system is compulsory in the case of vehicles with Xenon light. In the case of halogen light as well, these systems make sense for the following reason.

The influence of soiled headlamps on driving safety:



### Design and function:

A complete Hella cleaning system is made up of the following components:

- Vortex chamber nozzles with different water distribution patterns in stationary or telescopic nozzle systems
- Switch valves / central valve.





## Reasons for failure:

- Centrifugal pump is not working
- Hose is leaking
- Blocked or faulty valve
- Blocked nozzle
- Damaged telescopic arm

## Fault diagnosis:

- If the centrifugal pump does not work when the washing function is triggered (running sound can otherwise be clearly heard), the voltage supply must be checked, including fuses.

If the pump is working but the water cone sprayed only one-sided or very weakly, the following causes are possible:

- **Motor-driven pump could have reverse polarity:** Check polarity, since centrifugal pumps work in both directions of rotation, only the hydraulic capacity is different.
- **System not vented:** Vent the system completely by activating it several times in succession without a pause.
- **Hose kinked or leaking:** Check how the hoses are laid and correct this if necessary. Seal leaks or repair hoses as required.
- **Nozzles or valves blocked:** Remove foreign bodies by flushing out the system.
- **Structural elements iced up:** Increase the concentration of anti-freeze. The components will not be destroyed by being iced up, however.