UREA INJECTION SYSTEM



ITS FUNCTION



The role of the urea injection system is to **inject a fluid called AdBlue**[®] (a mixture of demineralised water and urea) **into the vehicle's exhaust stream** before the gases pass through the SCR catalyst.

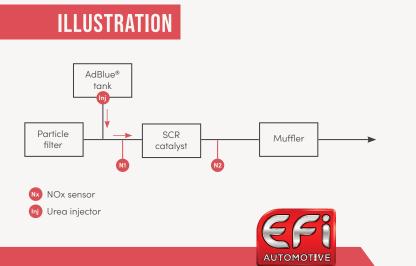
When exposed to high temperatures, urea breaks down into ammonia (NH_3) and carbon dioxide (CO_2) . The ammonia then reacts with the nitrogen oxides in the exhaust gases to form nitrogen (N2) and water vapour (H₂O), substances that are harmless to the environment.

GOOD TO KNOW

The SCR system consists of several **key components**, and their location varies according to the vehicle:

- The AdBlue[®] tank: generally located at the rear of the vehicle, close to the fuel tank, but separate to avoid any mixing.
- The urea injector: located in the exhaust line, upstream of the SCR catalytic converter, often between the engine and the exhaust gas filtration system.
- The SCR catalyst: located directly in the exhaust line, after the urea injector.
- NOx sensors: placed before and after the SCR catalyst to measure the levels of nitrogen oxides in the exhaust gases and ensure that the system is working properly.





SERVICE



TO REMEMBER

The SCR system is **highly effective in reducing NOx emissions**, enabling powered-diesel vehicles to meet the most stringent emissions standards, including Euro 6.

The system does, however, add a degree of complexity and **requires regular maintenance**, such as replenishing AdBlue[®] and replacing faulty NOx sensors.

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