SI-260603

Service-Information Turbocharger

Fault memory entry: Electrical fault in the boost pressure controller, due to water ingress in the electronic actuator

Introduction:
In these vehicles, turbocharger failures occur, accompanied by error codes related to the boost pressure control unit indicating an electrical fault. The cause of the failure is often water ingress into the actuator's electronics. The actuator is constantly exposed to splashing water when driving in the rain. Moisture in the electronics leads to electrical faults and blocks the adaptation values in the engine control unit. The electric actuator cannot be replaced as a single unit.

Note:
When replacing the turbocharger, fault codes must be cleared and the learned values in the engine control unit must be set back to default. Unfortunately, even with advanced diagnostic tools, it is not always possible to reset the locked learned values.
This problem can be solved using OE integrations such as RENAULT CLIP or Mercedes/Smart XENTRY.

Instructions:
Check the vehicle-side connector to the actuator for corrosion. Check the cables for damage. The engine temperature must comply with the manufacturer's specifications.
The learned values for the boost pressure regulator can sometimes also be found under *"Injection -> Mixing Chamber / Throttle Valve / Boost Pressure."* After a successful command, wait for the ECU to complete its post-command processing / sleep mode. This may take a few minutes.



Vehicle Manufacturer: RENAULT; SMART
Vehicle: Twingo III 0.9 TCe 90; Twingo III 0.9 TCe 110; Fortwo 0.9; Forfour 0.9
Engine code: H4B 401; M 281.910

Validity: This service information is valid for renewing the turbocharger with
BTS reference: T918146 **BTS-Service-Set-Nr:** T981685

Please note: OE-references are only for means of comparison. The content of this Service Information is non-binding and is only for informational purposes. The manufacturer specifications have to be adhered to.

BTS GmbH
Paradeisstraße 56
D-82362 Weilheim

Verkauf - Tel.: +49 881 627 – 300
Fax: +49 881 627 – 311

Technik - Tel.: +49 881 627 – 302
Fax: +49 881 627 – 311

Mail: info@bts-turbo.de
Web: www.bts-turbo.de