



Technical Bulletin

iStARS

Vehicle Type

All models with Stop-Starts

Stop- Start System Diagnosis

Stop-start system fails to automatically re-start engine.

Test condition	Defect origin	Diagnosing steps
<p>All models with DV6. (PSA group engine)</p>	<p>ECM software fault.</p>	<ul style="list-style-type: none"> • Erase trouble codes from ECU fault memory. • Allow ECU to enter sleep mode. • Carry out road test to ensure stop-start operates correctly. • If fault still present: replace ECM.

Servicing not resetting

Test condition	Defect origin	Diagnosing steps
All models with Stop-Start function manual or automatic gearbox	To protect the engine: if the mileage is 15% more than the servicing values the stop-start is disabled.	<ul style="list-style-type: none"> • Do the servicing if not done • Reset the servicing mileage

P16A3 ECM internal circuit malfunction

Test condition	Defect origin	Diagnosing steps
All models with DV6. (PSA group engine)	ECM software fault	<ul style="list-style-type: none"> • Erase DTC from ECM fault memory. • Allow ECM to enter sleep mode. • Carry out road to ensure stop/start operates correctly. • If the fault still active: replace ECM.

P16AB ancillaries belt worn

Test condition	Defect origin	Diagnosing steps
All models with DV6. (PSA group engine)	Ancillaries belt worn	The purpose of this first warning is to inform the customer advise an ancillaries belt replacement as a preventive measure

P1383 ancillaries belt- breakage forthcoming

Test condition	Defect origin	Diagnosing steps
All models with DV6. (PSA group engine)	Ancillaries belt-breakage forthcoming.	In order to avoid breaking the belt during re-starting, the "Stop and Start" function is automatically inhibited and the fault light will come on in order to inform the driver.

Example of Fault codes and probable cause

Fault Code	Fault location	Probable cause
P1382	Stop-start system alternator/starter motor - implausible starter motor speed signal	Wiring, auxiliary drive belt, CKP sensor, stop-start system alternator/starter motor
P1693	Starter control - invalid signal	Wiring, starter motor relay, starter motor, ECM
P1694	Starter control - circuit malfunction	Wiring, starter motor relay, starter motor, ECM
P1695	Starter control - malfunction	Wiring, starter motor relay, starter motor, battery, ECM
P1A88	Stop-start system alternator/starter motor - voltage malfunction	Stop-start system alternator/starter motor
P1A89	Stop-start system capacitor - voltage malfunction	Stop-start system alternator/starter motor
P1A8D	Stop-start system alternator/starter motor, authorisation signal - open/short circuit to earth	Wiring, stop-start system alternator/starter motor
P1A8E	Stop-start system alternator/starter motor, authorisation signal - short circuit to positive	Wiring, stop-start system alternator/starter motor, ECM
P1A8F	Stop-start system alternator/starter motor, authorisation signal - communication error	Wiring, stop-start system alternator/starter motor, ECM

Fault Code	Fault location	Probable cause
P1A90	Stop-start system alternator/starter motor - overheating	Wiring, stop-start system alternator/starter motor
P1A91	Stop-start system alternator/starter motor - engine failed to start	Wiring, stop-start system alternator/starter motor
P1A92	Stop-start system alternator/starter motor - malfunction	Wiring, stop-start system alternator/starter motor
P1A93	Stop-start system alternator/starter motor - malfunction	Wiring, stop-start system alternator/starter motor
P1A94	Stop-start system alternator/starter motor - malfunction	Wiring, stop-start system alternator/starter motor
P1A95	Stop-start system alternator/starter motor - internal fault	Wiring, stop-start system alternator/starter motor
P1382	Stop-start system alternator/starter motor - implausible starter motor speed signal	Wiring, auxiliary drive belt, CKP sensor, stop-start system alternator/starter motor