

TECHNICAL TOPICS

POWERTRAIN



Idle Surge with PCM Software Up to Date

19/20 MY Range Rover, RR Sport, Defender equipped with AJ20P6

Customer Voice:

- The engine speed will jump up at idle with the AC off.

Technical Description:

- Throttle and MAF PIDs show a metered air leak.

Status:

- Confirm the complaint and check the DIDs for Mass Air Flow and Throttle angle.
- If the engine is idling and the throttle angle is 0 degrees, this is a good indication that there is an air leak.
- Confirmation of elevated MAF readings show the air leak is metered.
- Remove the PCV tube from the intake tube and block the fitting.
- If values return to normal, inspect the PCV oil separator housing.
- Should a non-sealing gasket be identified, replace the PCV housing and raise an EPQR so the part can be returned for analysis.

