

SSM000030 - AJ20P6 COMBUSTION INSTABILITY

Customer Voice:

- "My engine light is on."
- "My engine is running rough."
- "Car lacks power during acceleration."

Status:

- Engineering is still investigating a root cause. Any of these codes could be stored:
 - P0301-00 –P0302-00 –P0303-00 –P0304-00 –P0305-00 –P0306-00, Misfire codes will be set.
 - P21A0-84, P21A1-84, P21A0-85, P21A1-85, P3498-71, P3499-71, P219C-84, P219D-84, P219E-84, P219F-84
 - P219C-85, P219D-85, P219E-85, P219F-85, P0316-00 – Misfire Detected on Startup (First 1000 revolutions)
 - P349A-71, P349B-71, P349C-71, P349D-71

Action – Service Request:

- Connect JLR diagnostic equipment and battery support.
- Open Powertrain Data Collect → New Datalogger session. Manage Tests → Import from disk → AJ20P6 Misfire_AFR_CVVL.json.
- Start new recording.
- Drive Cycle (Replicate Concern):
 - Engine cold (≥ 8 hours off) → Allow catalyst heating to finish (idle ~700 rpm) → Coolant $\geq 40^{\circ}\text{C}$ (104°F).
 - Drive steady 1200–2800 rpm in 6th gear+ for 10 minutes → Stop recording and run Engine Health Check.

If concern WAS replicated: raise TA to PTS_100 → Reference: SSM 000030 → Attach datalogger recording to the TA.

If concern NOT replicated: ensure PCM / TCM / EPIC have latest software. → Run: Clear All DTCs; PCM Reset All Adaptions; PCM Learn VVL Adaption; Network Integrity Test.
- Road test 10 miles / 16 km to full temp → Reconnect equipment → Run Network Integrity Test again.

If DTCs/symptoms DO NOT return → Release vehicle (no parts replaced).

If DTCs return or repeat visit → Raise TA to PTS_100 with recording.

Range Rover

- 24MY Onwards- Range Rover
- 24MY Onwards- RR Sport

