



Diagmotors™ Official Technical Manual

— Light Version (Extract Volume 1) —

Starting & Synchronization

— Professional Presentation —

Emmanuel Sambrone • Diagmotors™



Diagmotors™ Presentation


Diagmotors™ — Mobile Automotive Diagnostics

Specialized technician in engine diagnostics

I provide:

- Advanced OBD / EOBD diagnostics
 - Live data analysis
 - CKP / CMP sensor testing
 - Essential electrical checks
- Starting & synchronization diagnostics
 - Detailed technical reports

 **Tarnos (40) — Serving Landes & Basque Country**

 +33 6 68 10 05 27

 diagmotors64@gmail.com

 www.diagmotors.com



Volume 1 - Extracts (Summaries)

No-Start Diagnosis (extract)

- Battery < **12.2 V** → insufficient
- Starter control < **11 V** → relay / ignition switch
- Ground voltage drop > **0.5 V** → faulty ground
 - Current draw > **250 A** → seized starter

CKP Sensor Diagnosis (extract)

- CKP resistance: **500–1500 Ω**
 - Cranking speed: **≥ 180 rpm**
- Oscilloscope signal: missing tooth visible

Fuel Pressure Diagnosis (extract)

- Low-pressure pump: **3–5 bar**
- Diesel rail pressure: **≥ 250 bar during cranking**
 - Excessive injector return → faulty injector

👉 *These extracts are taken from the full Volume 1.*



Diagmotors™ Methodology

The Diagmotors™ method is based on a structured and reproducible approach:

1. **OBD analysis** Fault codes, live data, CKP / CMP synchronization
2. **Essential electrical checks** Battery, engine ground, starter motor, alternator
3. **CKP / CMP sensor tests** Resistance, power supply, signal, oscilloscope patterns
4. **Fuel system checks** Low-pressure supply, rail pressure, injector return flow
5. **Decision trees** Each procedure leads to a clear and logical conclusion

👉 *Goal: fast, accurate, and reliable diagnostics*



Professional Contact

To receive the full **Volume 1 manual**, or request an on-site diagnostic:

 **+33 6 68 10 05 27**

 diagmotors64@gmail.com

 www.diagmotors.com

Diagmotors™ — Emmanuel Sambrone

Mobile Automotive Diagnostics Tarnos — Landes / Basque Country



End of Volume 1 —

Starting & Synchronization

Diagmotors™ Official Technical Manual