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DF codes for Renault vehicles: identification and possible causes The DF code is a unique identifier used in Renault vehicles as well as can be obtained using diagnostic tools such as the CanClimp tool. The code consists of three digits (DFXXX) and has different meanings depending on its value. Here are some common DF codes and their possible causes: Low-level problems (Low): Minor issues that may not require immediate attention • DF001: Water temperature sensor circuit - Possible cause: Faulty sensor, damaged wiring, or connection problem • DF002: Air temperature sensor circuit - Possible cause: Faulty sensor, damaged wiring, or connection problem • DF004: Boost pressure sensor circuit - Possible cause: Faulty pressure sensor, leak in the supercharging system Serious problems (Average): Issues that require attention but do not prevent driving • DF007: Rail pressure sensor circuit - Possible cause: Faulty rail pressure sensor; fuel pump problem • DF011: Supply voltage No. 1 of the sensors - Possible cause: Electrical problem, damaged wiring, or computer failure • DF012: Supply voltage No. 2 of the sensors - Possible cause: Electrical problem, damaged wiring, or computer failure • DF013: Supply voltage No. 3 of the sensors - Possible cause: Electrical problem, damaged wiring, or computer failure • DF015: Main relay control circuit - Possible cause: Faulty relay, damaged wiring, or connection problem Critical problems (High): Issues that require immediate attention to prevent damage or safety risks • DF025: Preheating box diagnostic connection - Possible cause: Communication problem with the preheating box, damaged wiring • DF026: Cylinder 1 injector control circuit - Possible cause: Faulty injector, damaged wiring, or connection problem • DF027: Cylinder 2 injector control circuit - Possible cause: Faulty injector, damaged wiring, or connection problem • DF028: Cylinder 3 injector control circuit - Possible cause: Faulty injector, damaged wiring, or connection problem • DF029: Cylinder 4 injector control circuit - Possible cause: Faulty injector, damaged wiring, or connection problem • DF032: Immersion heater relay control circuit 1 - Possible cause: Faulty relay, damaged wiring, or connection problem • DF033: Immersion heater relay control circuit 2 - Possible cause: Faulty relay, damaged wiring, or connection problem • DF034: Immersion heater relay control circuit 3 - Possible cause: Faulty relay, damaged wiring, or connection problem • DF038: calculator (ECU failure) - Possible cause: ECU failure, communication problem • DF047: Computer power supply voltage - Possible cause: Electrical problem, damaged wiring, battery failure • DF050: Brake switch circuit - Possible cause: Faulty brake switch, damaged wiring • DF051: Cruise control / speed limiter function - Possible cause: Cruise control problem, faulty speed sensor • DF052: injector control circuit - Possible cause: Wiring problem, injector failure • DF053: Rail pressure regulation function - Possible cause: Pressure regulation problem, faulty rail pressure sensor • DF054: Supercharging solenoid valve control circuit - Possible cause: Faulty solenoid valve, damaged wiring • DF056: Air flow sensor circuit - Possible cause: Faulty air flow sensor, damaged wiring • DF090: Vehicle speed sensor circuit - Possible cause: Faulty speed sensor, damaged wiring • DF098: Fuel temperature sensor circuit - Possible cause: Faulty fuel temperature sensor, damaged wiring • DF101: Multiplexed trajectory control link - Possible cause: Multiplexed communication problem, damaged wiring • DF120: Engine speed sensor signal - Possible cause: Engine speed sensor faulty, wiring damaged • DF195: Camshaft sensor / engine speed consistency - Possible cause: Synchronization problem between camshaft sensor and rpm sensor • DF200: Atmospheric pressure sensor - Possible cause: Faulty atmospheric pressure sensor, damaged wiring The code is filled with various error codes related to engine issues. These errors can be categorized into several types, including faulty sensors, wiring problems, and mechanical malfunctions. Some common issues include clogged or defective particle filters, blocked air intake flaps, and problematic EGR valves. Electrical problems, such as faulty wiring and communication issues between the ECU and other components, are also present. Additionally, there are concerns about fuel level sensors, alternators, relays, and supercharging systems. In some cases, the engine may be experiencing overheating or flow control issues due to temperature sensor problems or clogged injectors. Faulty relay control systems and electrical issues with various components have been detected. The average ratings for these components are listed. Multiple electrical issues were detected in the vehicle's system. Key problems include: Faulty gear shift solenoids and wiring issues in the DF087, DF088, and DF089 circuits, causing high levels of malfunction. Wiring damage was also found in the sequential shifter circuit (DF093), gear shift lock solenoid circuit (DF095), and multiplex pedal position sensor (DF114). Additionally, communication problems were detected with various vehicle systems, including: * Multiplex engine speed signal (DF116) * Left rear wheel multiplex speed signal (DF117) * Right rear wheel multiplex speed signal (DF118) * Brake pedal position sensor (DF119) Moreover, issues were found in the cabin computer connection (DF122), ABS computer connection (DF123), Electronic Stability Program (ESP) communication (DF129), and automatic transmission overheating (DF177). Wiring damage was also present in several areas, including wheel sensors (DF178 and DF179), ABS brake contact circuit (DF188), and ESP on/off button circuit (DF191). • Original; Problem: Defective Intermediate Wheel Average DF258 - Rapid Loss of Hydraulic Pressure Hydraulic pressure problem, leak or faulty pump • High DF262 - Vehicle Speed Multiplex Signal Multiplexed communication problem, defective sensor • Average DF263 - No Multiplexed Signal Multiplexed communication problem, damaged wiring • Average DF275 - Clutch Solenoid Circuit 3 Faulty solenoid, damaged wiring • High DF277 - Clutch Solenoid Valve 2 Reverse Current Defective solenoid valve, damaged wiring • High DF281 - Torque Converter Lock-up Reverse Current Electrical problem, faulty torque converter • High DF286 - Gear Selector Position Sensor Signal Faulty position sensor, damaged wiring • Average DF287 - Gearbox Output Speed Information Faulty speed sensor, damaged wiring • Average DF289 - ECU Multiplexed Information Transfer Multiplexed communication problem, damaged wiring • Average DF290 - Transfer of information from ABS ECU to multiplexed network Multiplexed communication problem, damaged wiring • Average DF291 - Vitesse 1 Speed Sensor Problem Damaged wiring • Average DF292 - Vitesse 2 Speed Sensor Problem Damaged wiring • Average DF293 - Vitesse 3 Speed Sensor Problem Damaged wiring • Average DF294 - Vitesse 4 Speed Sensor Problem Damaged wiring • Average DF295 - Vitesse 5 Speed Sensor Problem Damaged wiring • Average DF296 - Vitesse 6 Speed Sensor Problem Damaged wiring • Average DF298 - Gear Switch Mechanical or electrical problem in the gear shift system • High DF313 - Pressure sensor function, signal incompatibility Faulty pressure sensor, damaged wiring • Average DF320 - Brake switch 2 Faulty brake switch, damaged wiring • Average DF332 - Reverse circuit Electrical problem, faulty reverse sensor • High DF378 - Speed Selector Drum 1 - Out of Limit Signal Mechanical or electrical problem in the selection drum • High DF379 - Speed Selector Drum 2 - Out of Limit Signal Mechanical or electrical problem in the selection drum • High DF381 - Gear Selector Drum Motor Circuit 2 - Implausible Signal Mechanical or electrical problem in the selection drum • High DF385 - Clutch 2 short circuit to ground Electrical problem, faulty clutch • High DF388 - Clutch 1 short circuit to ground Electrical problem, faulty clutch • High DF390 - Gearbox Input Speed Sensor 1 Circuit - Short Circuit Faulty speed sensor, damaged wiring • High DF391 - Gearbox Input Speed Sensor 2 Circuit - Short Circuit Faulty speed sensor, damaged wiring • High DF392 - Unable to change gear 1 Mechanical or electrical problem in the gear shift system • High DF404 - Connection of AT or ROB gearbox via multiplex network Multiplexed communication problem, damaged wiring • Average DF421 - Battery Voltage 12V - Low Voltage Electrical problem, low battery or faulty alternator • High DF428 - Gearbox input speed sensor circuit 1 - Short circuit to ground Faulty speed sensor, damaged wiring • High Code Description Possible causes: Gravity DF101 - Multiplexed trajectory control link CAN communication problem, damaged wiring, faulty ABS/ESP module • High DF1063 - Multiplexed trajectory control link CAN communication problem, damaged wiring, faulty ABS/ESP module • High DF224 - ESP function disabled Faulty ESP module, communication problem, faulty wheel sensor • High DF225 - ESP and anti-skid functions deactivated Faulty ESP module, communication problem, faulty wheel sensor • High DF233 - Multiplexed network trajectory control CAN communication problem, damaged wiring, faulty ABS/ESP module • High DF242 - Invalid right rear wheel faulty wheel sensor, damaged wiring, CAN communication problem Medium to high DF248 Chassis wear compensation function neutralized Faulty ABS/ESP module, communication problem, faulty wheel sensor Average Multiplexed engine speed information CAN communication problem, faulty engine speed sensor Average DF250 Rapid loss of hydraulic pressure Leak in the hydraulic system, faulty ABS pump High Vehicle speed multiplex signal Faulty speed sensor, damaged wiring, CAN communication problem Medium to high DF262 No multiplexed signal CAN communication problem, damaged wiring, faulty ABS/ESP module High DF263 ABS/ESP calculator Faulty ABS/ESP module, programming problem, electrical surge High DF279 Transfer of information from ABS ECU to multiplexed network CAN communication problem, damaged wiring, faulty ABS/ESP module High DF290 Vitesse 1 Faulty wheel sensor, damaged wiring, CAN communication problem Average DF291 Vitesse 2 Faulty wheel sensor, damaged wiring, CAN communication problem Average DF292 Vitesse 4 Faulty wheel sensor, damaged wiring, CAN communication problem Average DF294 Vitesse 5 Faulty wheel sensor, damaged wiring, CAN communication problem Average DF295 Vitesse 6 Faulty wheel sensor, damaged wiring, CAN communication problem Average DF296 Brake switch 2 Faulty brake switch, damaged wiring Average DF320 Brake pedal sensor circuit Faulty brake pedal sensor, damaged wiring Average DF350 Refrigerant sensor circuit Faulty pressure sensor, refrigerant gas leak, damaged wiring Average DF049 Refrigerant pressure sensor circuit Faulty pressure sensor, refrigerant gas leak, damaged wiring Average DF113 Air conditioning authorization "power failure" Electrical problem, blown fuse, faulty air conditioning module Average DF148 Compressor control Faulty compressor, electrical problem, faulty relay High DF364 Air-conditioning communication problem, faulty air conditioning module Average DF365 Climate control Communication problem, faulty air conditioning module Average DF1070 Air conditioning compressor bonding Compressor blocked, mechanical or electrical problem High The following issues have been detected in the vehicle's systems: Low battery voltage: may indicate a low battery or faulty alternator. Fuel pressure sensor inconsistent signal: could be due to a faulty pressure sensor or damaged wiring. Engine misfire detection: might be caused by faulty spark plugs or an ignition coil issue. Low fuel level signal: could be related to a faulty fuel level sensor or damaged wiring. Faulty steering wheel position sensor: may be responsible for the "Flying target" error. Cruise control or speed limiter button issue: possibly due to a faulty button, damaged wiring, or communication problem. Alternator charge information: may indicate a faulty alternator, charging problem, or damaged wiring. Canister purge circuit: could be related to a faulty purge solenoid valve or damaged wiring. GMV low speed relay control: might be responsible for an electrical problem due to a faulty relay or wiring issue. Supercharging circuit: possibly caused by a supercharger problem, faulty sensor, or damaged wiring. Heating power circuit upstream O2 probe: could be related to a faulty O2 sensor, damaged wiring, or electrical problem. Downstream O2 probe heating power circuit: might be responsible for an electrical problem due to a faulty O2 sensor, damaged wiring. Brake closing signal: may indicate a faulty brake switch or damaged wiring. UPC multiplex connection: could be related to a CAN communication problem, damaged wiring, or defective module. Stop switch information: possibly caused by a faulty stop switch or damaged wiring. Intake air flap circuit: might be responsible for an electrical problem due to a faulty intake flap, damaged wiring. Fuel flow regulator circuit: could be related to a defective flow regulator or damaged wiring. Regulation of the position of the air intake flap: may indicate a faulty intake flap, damaged wiring, or electrical problem. Intake air flap position sensor: possibly caused by a faulty position sensor or damaged wiring. EGR valve position regulation: might be responsible for an electrical problem due to a faulty EGR valve, damaged wiring. Calculator issue: possibly caused by a faulty calculator module or programming problem. Accelerator pedal position signal: may indicate a faulty accelerator pedal sensor or damaged wiring. Turbine upstream pressure sensor circuit: could be related to a faulty pressure sensor or damaged wiring. Turbine upstream temperature sensor circuit: might be responsible for an electrical problem due to a faulty temperature sensor, damaged wiring. Fuel injection calibration cylinder issues: possibly caused by calibration problems or defective injectors. Upstream pressure particle filter issue: may indicate a faulty pressure sensor or damaged wiring. Engine overheating: could be related to cooling problems or a faulty temperature sensor. Adaptive flow control issue: might be responsible for a flow control problem, faulty sensor. Turbine upstream temperature regulation: possibly caused by a faulty temperature sensor or damaged wiring. Additional fuel circuit pump relay issue (only for Flex fuel): may indicate a faulty relay, damaged wiring, electrical problem. Rail pressure issue: could be related to a faulty pressure sensor or damaged wiring. Brake/accelerator pedal position issue: may indicate a faulty position sensor or damaged wiring. Movement during particle filter regeneration issue: possibly caused by a regeneration problem, faulty sensor. Injector power supply group issue. Faulty injector, electrical problem in average DF892 and DF894 power supply groups, solenoid valve issues in Flex fuel circuit, pressure sensor problems, rail pressure regulation defects and pedal potentiometer circuits Faulty solenoid valve, damaged wiring, pressure regulator circuit on pump, faulty pressure regulator Regeneration temperature threshold limit exceeded, regeneration problem, faulty temperature sensor, pedal potentiometer circuit track 1 and 2 Defective injector, damaged wiring, heating resistance relay control problems, connection of the immersion heater control box Faulty pressure sensor, upstream temperature regulation of particle filter, turbine upstream pressure, multiple communication issues including CAN module Faulty speed sensor, brake contact information consistency issue, clutch contact information consistency issue Calculator programming problems and engine oil dilution due to lubrication problem Aftermarket Tooth Signal Sensor Circuit defective sensor, unconfigured heater plugs, boost pressure consistency issues 1. Using an OBD2 Tool Connect the OBD2 tool to the socket under the steering wheel and note the complete code, such as DF721. 2. Troubleshooting Steps - **Reset**:- Clear the code and check if it reappears after 3 driving cycles. - **Routine Checks**:- Oxidized connectors - Damaged electrical wires - Fluid levels (coolant, oil) - Interventions for Specific Fault Codes: - DF297: Cleaning or replacing the DPf. - DF001: Replacement of the water temperature sensor. 3. Common Fault Codes and Recommended Actions - **Engine Light On**:- Use a diagnostic tool to read the codes and identify the cause. - **Power Loss**:- Check turbo pressure, particulate filter, or rail pressure. - **Abnormal Noises**:- Inspect the intake system, turbo, or cooling system. - **Excessive Smoke from Exhaust**:- Check the particulate filter, EGR system, or engine temperature. 4. Addressing Engine Light Issues - If the code indicates a serious problem (high severity), stop the vehicle and contact a professional. - For minor issues (low severity), continue driving but resolve the issue as soon as possible.

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