



ALL TYPES

Type

XXX X

fitted with K4J, K4M, F4P or F4R engine

Cancels and replaces Technical Note No. 4242A dated JUNE 2002.

Amendment: modification to the technical solution.

17A ENGINE INSTABILITIES (SUPPLEMENT TO TECHNICAL NOTE 4098A)

Other sub-section concerned:

01A

11A

12A

13A

14A

16A

17B

- Engine: **K4J, K4M, F4P, F4R**
- Gearbox: **XXX**

Basic manual:

Technical Note: **3585A, 4098A, 4143A, 4184A, 4211A**

INFORMATION

To avoid numerous unnecessary removals of the ignition coils, we ask you to take **PARTICULAR** note of the following points:

- _ Apply the preliminary fault finding procedure described on the following page.
- _ Check if it is necessary to reprogram the injection computer.

No responsibility will be accepted if the ignition coils are unnecessarily removed.

Note: the OBD warning light indicates every combustion misfire. In the event that the OBD warning light does not come on, the ignition system is not affected.

K4J AND K4M ENGINES

PRELIMINARY FAULT FINDING

Note: the OBD warning light indicates every misfire. In the event that the OBD warning light does not come on, the ignition system is not affected.

1. Disconnect the injector from cylinder no. 1:
 - If the engine speed remains the same, the combustion on this cylinder is the cause:
 - Apply Technical Note 4098A.
 - If the engine speed drops, the combustion on this cylinder is not the cause:
 - Reconnect cylinder no. 1 injector.
2. Repeat the operation for the 3 other cylinders.
3. Check whether reprogramming the injection computer is necessary according to Technical Notes 4184A and 4211A.
4. Check the ignition system according to Technical Note 4098A.

NOTE: the K4J and K4M engines are optimised to operate at increased speeds and may naturally present slight engine instabilities at idling speed when warm.

Identifying SAGEM ignition coils (without removing them)

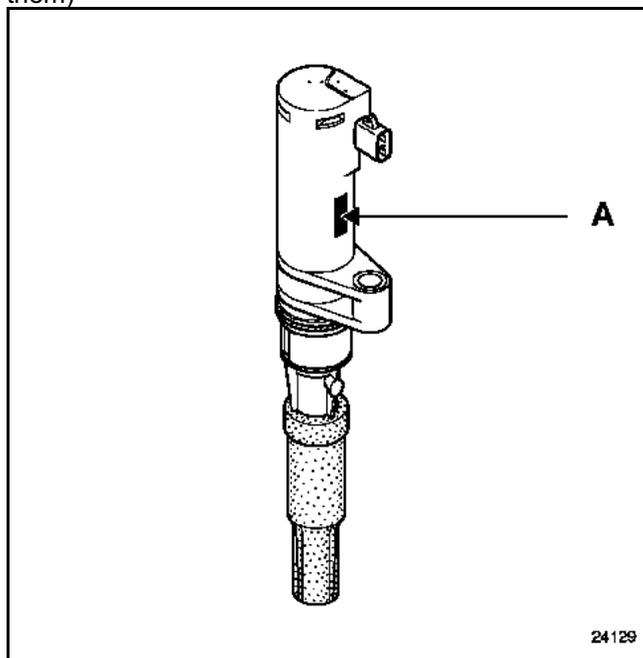


Fig. 1

A – Location of the fabrication date on the ignition coil

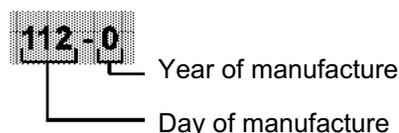
AFTER-SALES SOLUTION

- Apply Technical Notes 4184A and 4211A.

The reprogramming has not resolved the fault:

- Carry out a detailed fault finding procedure according to Technical Note 4098A.
 - If the fault finding points to a faulty ignition coil:
 - DENSO** ignition coil:
 - Replace only the faulty ignition coil.
 - SAGEM** ignition coil:
 - **Without removing them**, check the fabrication date of the ignition coils (A) (**Fig. 1**).
 - Replace the faulty ignition coil only or all four coils depending on the fabrication date.

Example fabrication date



Coil(s) must be replaced depending on the fabrication date

Fabrication date	Operation to be carried out
Above 112 - 0 (e.g.: 050 - 1)	Replace the faulty ignition coil(s)
Below 112 - 0 (e.g.: 050 - 0)	Replace all four ignition coils

IMPORTANT: only SAGEM ignition coils (Part No.: 82 00 154 186) are authorised replacements.

NOTE: for K4J and K4M engines, requests for reimbursement will automatically be cancelled if the ignition coil is a DENSO marque.

F4P AND F4R ENGINES

PRELIMINARY FAULT FINDING

Note: the OBD warning light indicates every misfire. In the event that the OBD warning light does not come on, the ignition system is not at fault.

1. Disconnect the injector from cylinder no. 1:
 - If the engine speed remains the same, the combustion on this cylinder is the cause:
 - Apply Technical Note 4098A.
 - If the engine speed drops, the combustion on this cylinder is not the cause:
 - Reconnect cylinder no. 1. injector
2. Repeat the operation for the 3 other cylinders.
3. Check the ignition system according to Technical Note 4098A.

AFTER-SALES SOLUTION

- Reprogram the injection computer according to Technical Note 3585A using reprogramming **CD no. 08** or later **Part No.: 77 11 298 859**.
Note: The latest edition of this part number contains all previous programming.
 - **CLIP or OPTIMA 5800** installed with the latest update: using **CD tool version no. 30**.
 - **NXR** installed with the latest update: from **CD tool version no. 30**.

The reprogramming has not resolved the fault:

- Carry out a detailed fault finding procedure according to Technical Note 4098A.
 - If the fault finding points to a faulty ignition coil:
 - Replace only the faulty ignition coil.

Note: when replacing the ignition coil, always apply special silicon grease (**Part No.: 82 00 168 855**) according to Technical Note 4143A.

IMPORTANT: only DENSO ignition coils (**Part No.: 77 00 107 177**) are authorised replacements.

NOTE: for F4P and F4R engines, requests for reimbursement will automatically be cancelled if the ignition coil is a SAGEM marque.