

IGNITION

Ignition: Specifications

17A

D4F or F4R or K4J or K4M or M4R

Engine type	Brand	Spark plug type
D4F 740 and 764	CHAMPION	REA8MCL
Flat seat with seal Gap: 0.9 mm ± 0.05		

Engine type	Brand	Spark plug type
D4F 784	NGK	ILKAR7A7
Flat seat with seal Gap: 0.65 mm ± 0.05		

Engine type	Brand	Spark plug type
K4J	EYQUEM	RFN58LZ
K4M	CHAMPION	RC87YCL
Flat seat with seal Gap: 0.95 mm ± 0.05		

Engine type	Brand	Spark plug type
M4R	NGK	PLZKAR6A-11
Gap: 1.1 mm		

Engine type	Brand	Spark plug type
F4R	NGK	PFR7Z-TG
Gap: 0.9 mm ± 0.1		

IGNITION

Coils: Removal - Refitting

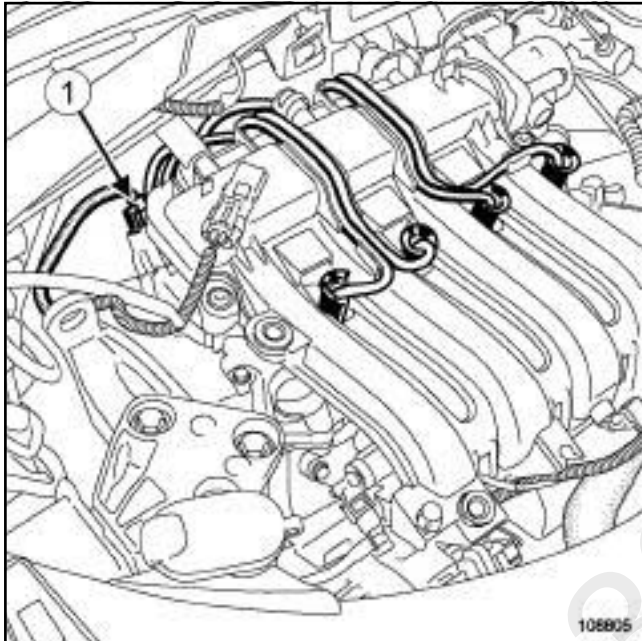
17A

D4F, and 740 or 742 or 764

REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).
- ☐ Remove the air filter unit (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page 12A-17) .

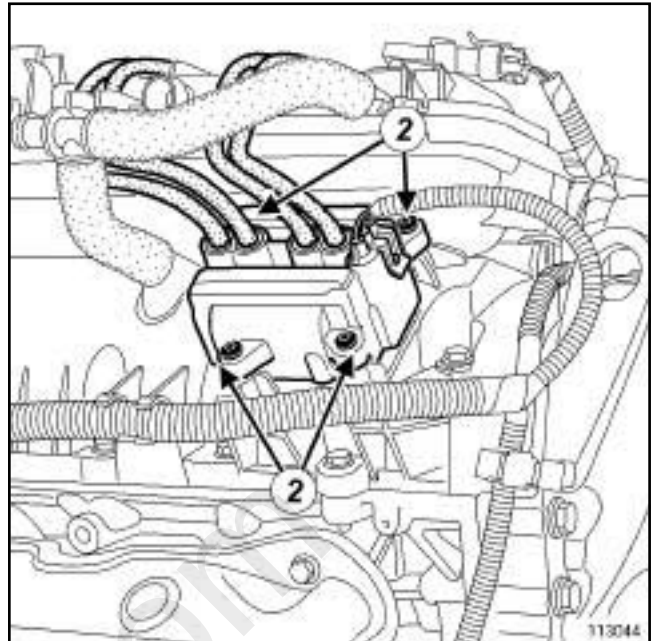


- ☐ Disconnect:
 - the four spark plug leads,
 - the connector (1) from the ignition coil.

WARNING

To disconnect the spark plug leads, never pull on the leads but by the extensions.

II - REMOVAL OF PART CONCERNED



- ☐ Remove:
 - the ignition coil mounting bolts (2) ,
 - the ignition coil.

IGNITION

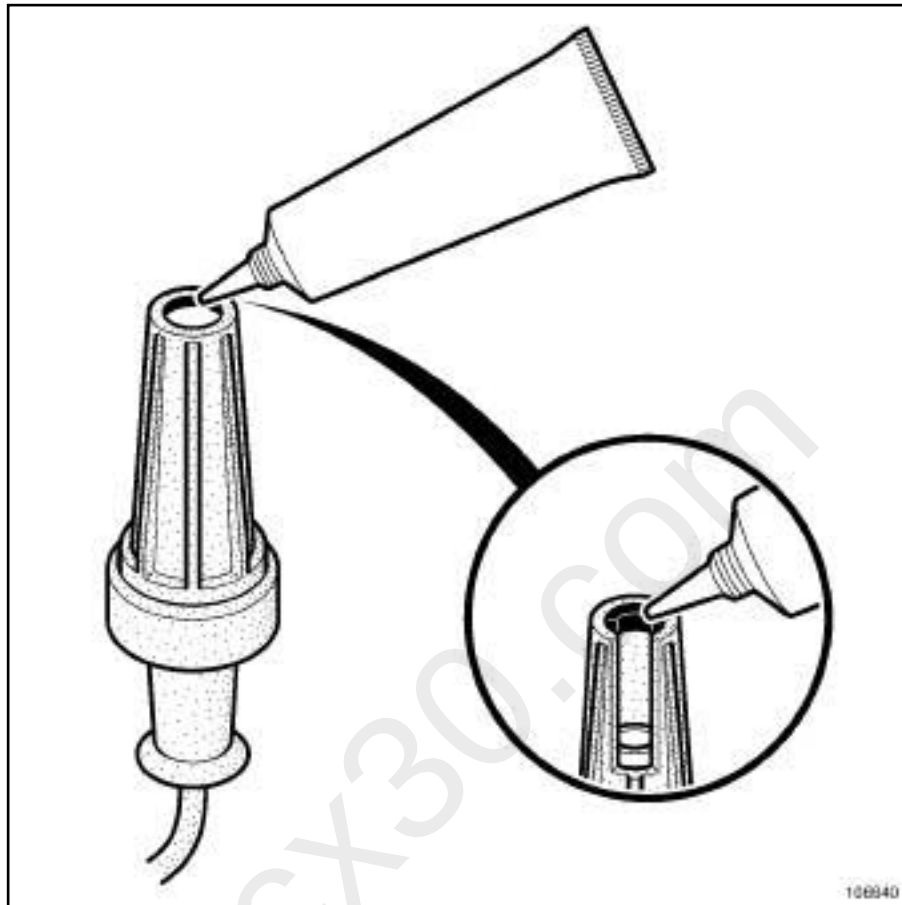
Coils: Removal - Refitting

17A

D4F, and 740 or 742 or 764

REFITTING

I - REFITTING PREPARATION OPERATION



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- ☐ When refitting spark plug leads, it is essential to apply a bead of **FLUORINATED GREASE (PART NUMBER 82 00 168 855)** with a diameter of **2 mm** around the inner edge of the high-tension caps.

II - REFITTING PART CONCERNED

- ☐ Refit:
 - the ignition coil,
 - the ignition coil mounting bolts.

III - FINAL OPERATION.

- ☐ Connect:
 - the four spark plug leads,
 - the ignition coil connector.
- ☐ Refit the air filter box (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page 12A-17) .
- ☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).

IGNITION

Coils: Removal - Refitting

17A

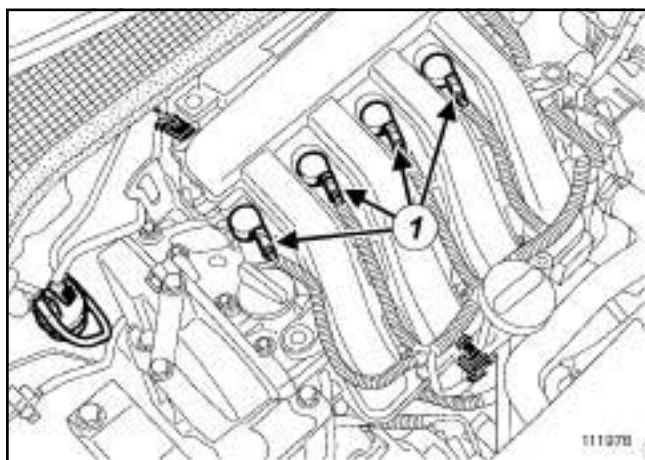
K4J or K4M

Tightening torques

coil bolts	14 N.m
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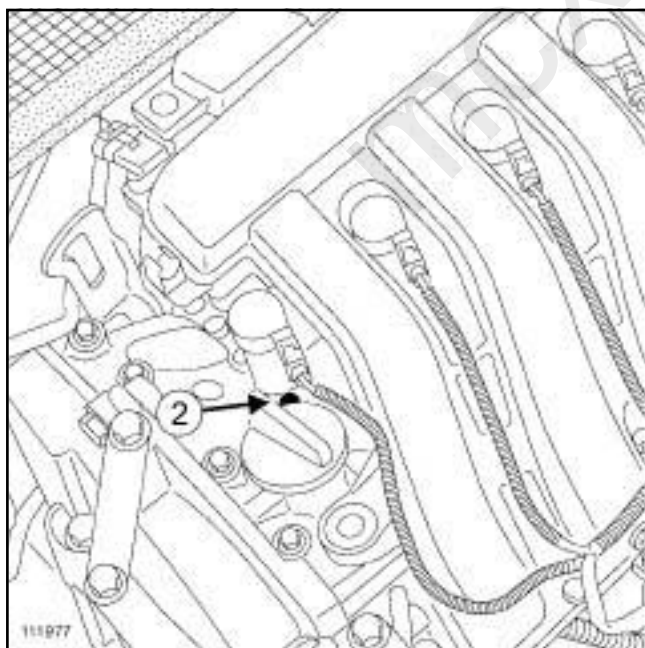
REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



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- ☐ Disconnect the coil connectors (1) .
- ☐ Be sure to replace any damaged connectors.



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- ☐ Remove:
 - the coil bolts (2) ,
 - the coils.

IGNITION

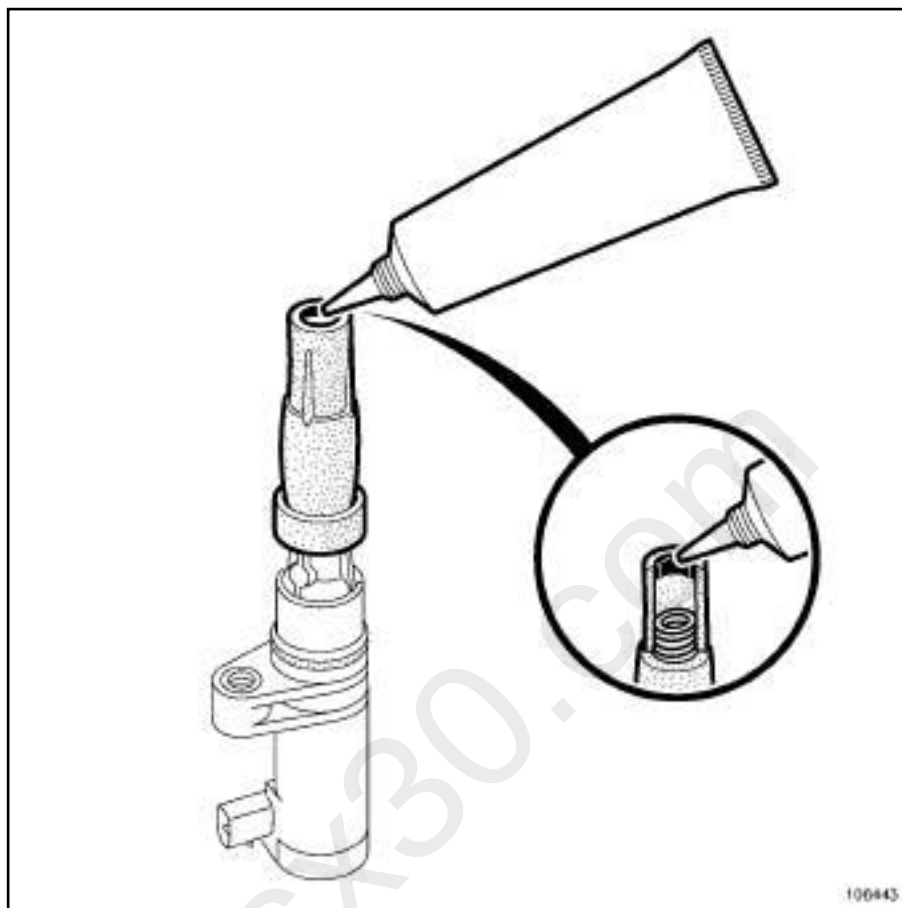
Coils: Removal - Refitting

17A

K4J or K4M

REFITTING

I - REFITTING PREPARATION OPERATION



- ☐ On the ignition coils, apply a bead of **FLUOSTAR 2L** (see **Vehicle: Parts and consumables for the repair**) , **2 mm** in diameter around the inner edge of the high-tension cap.
- ☐ If necessary, replace the coil O-rings.

II - REFITTING PART CONCERNED

- ☐ Part always to be replaced: coil bolts.
- ☐ Refit:
 - the coils,
 - the coil bolts.
- ☐ Torque tighten the **coil bolts (14 N.m)**.
- ☐ Connect the coil connectors.

IGNITION

Coils: Removal - Refitting

17A

M4R

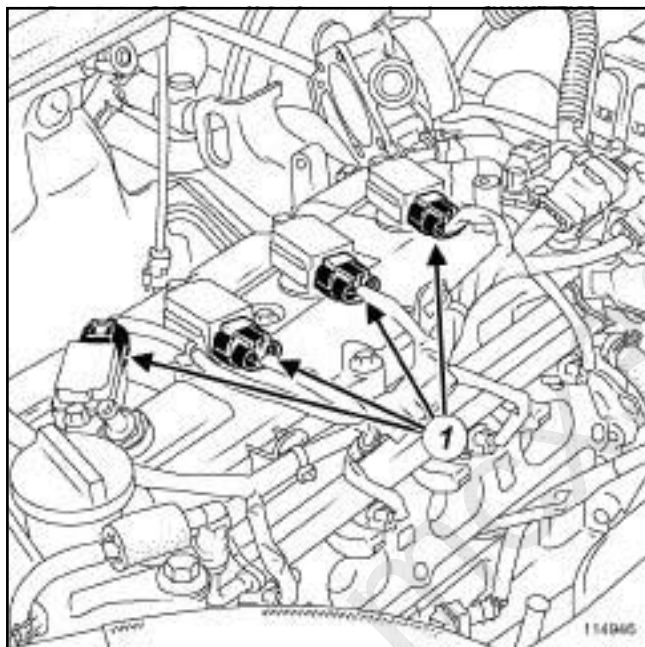
Tightening torques

ignition coil mounting bolts	7 Nm
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REMOVAL

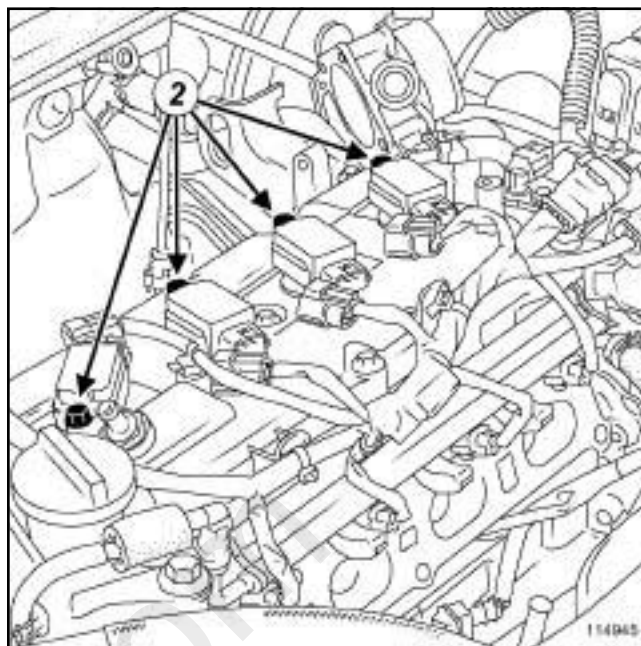
I - REMOVAL PREPARATION OPERATION

- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) .
- ☐ Remove the inlet manifold (see **12A, Fuel mixture, Inlet distributor: Removal - Refitting**, page **12A-46**) .



- ☐ Disconnect the ignition coil connectors (1) .

II - REMOVAL OF PART CONCERNED



- ☐ Remove:
 - the ignition coil mounting bolts (2) ,
 - the ignition coils.

IGNITION

Coils: Removal - Refitting

17A

M4R

REFITTING

I - REFITTING PREPARATION OPERATION



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- ☐ Apply to the ignition coils a bead of **FLUORINATED GREASE, PART NO. 82 00 168 855** with a diameter of **2mm** around the inner edge of the high pressure cap.

II - REFITTING THE PART CONCERNED

- ☐ Put the ignition coils into position.
- ☐ Tighten to torque the **ignition coil mounting bolts (7 Nm)**.

III - FINAL OPERATION

- ☐ Connect the ignition coil connectors.
- ☐ Refit the inlet manifold (see **12A, Fuel mixture, Inlet distributor: Removal - Refitting**, page **12A-46**) .
- ☐ Connect the battery (see **Battery: Removal - Refitting**) .

IGNITION

Coils: Removal - Refitting

17A

F4R

Tightening torques

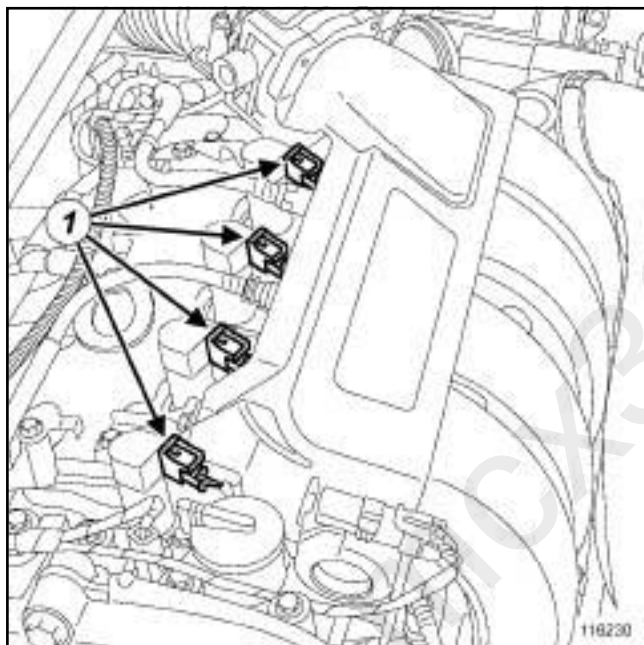
ignition coil mounting bolts	15 Nm
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REMOVAL

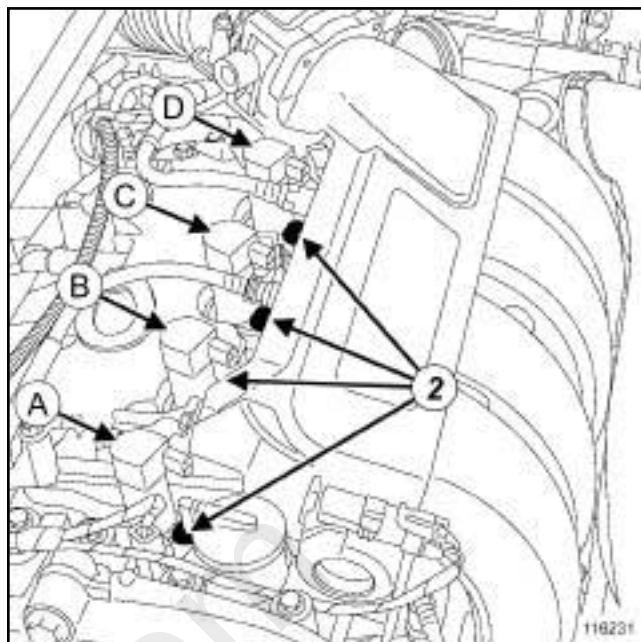
I - REMOVAL PREPARATION OPERATION

- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- ☐ Disconnect:
 - the ignition coil connectors (1) ,
 - the camshaft dephaser solenoid valve connector.



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- ☐ Remove:
 - the ignition coil mounting bolts (2) ,
 - the ignition coils (B) , (C) and (D) ,
 - the camshaft dephaser solenoid valve,
 - the ignition coil (A) .

IGNITION

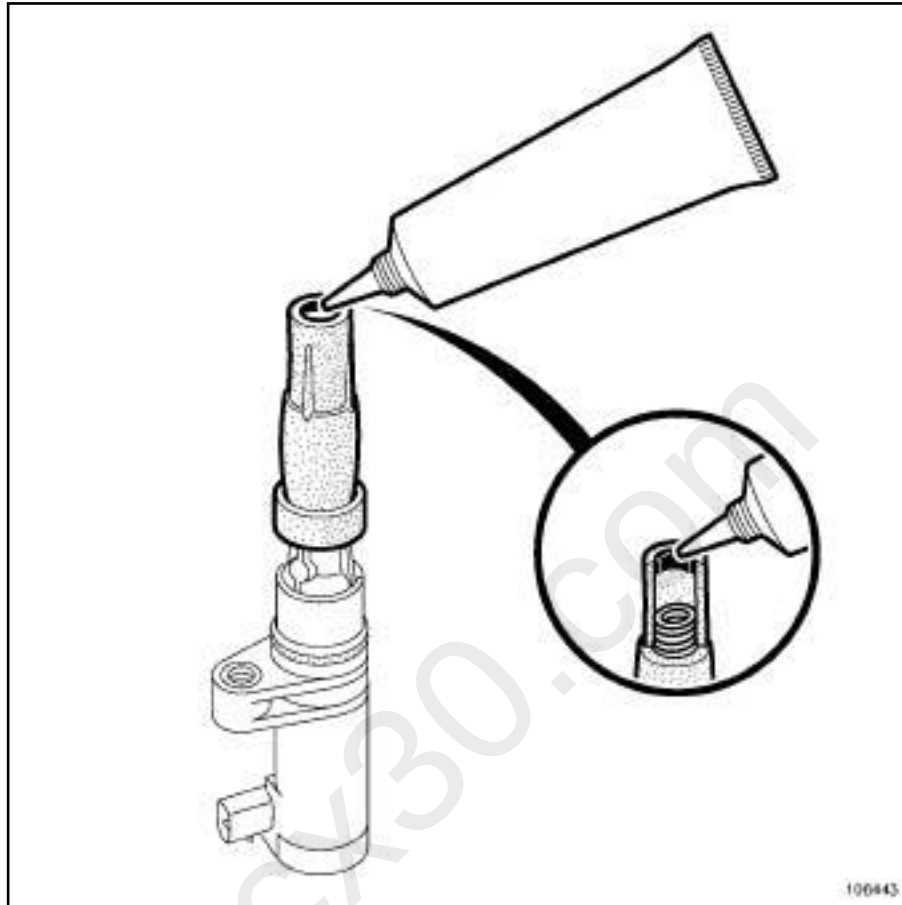
Coils: Removal - Refitting

17A

F4R

REFITTING

I - REFITTING PREPARATION OPERATION



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- ☐ Apply to the four ignition coils a bead of **fluorine grease (part no. 82 00 168 855)** 2 mm in diameter around the inner edge of the high-tension cap.
- ☐ If necessary, replace the ignition coil O-rings.

II - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit:
 - the cylinder ignition coils **(A)** , **(B)** , **(C)** ,and **(D)** ,
 - the camshaft dephaser solenoid valve,
 - the ignition coil mounting bolts.
- ☐ Torque tighten the **ignition coil mounting bolts (15 Nm)**.
- ☐ Connect:
 - the ignition coil connectors,
 - the camshaft dephaser solenoid valve connector.

III - FINAL OPERATION.

- ☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).