

IGNITION

Coils: Removal - Refitting

17A

D4F, and 784

Tightening torques

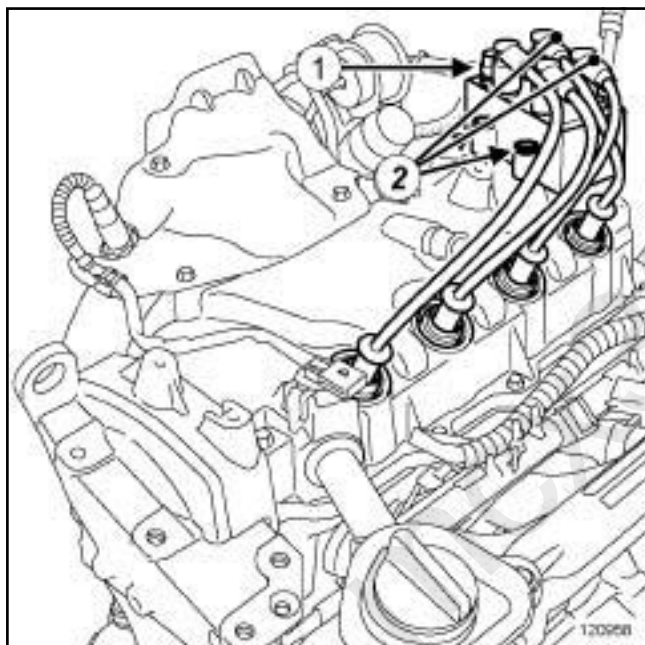
ignition coil bolts	10 Nm
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REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Remove the front engine cover.

II - OPERATION FOR REMOVAL OF PART CONCERNED



120958

- ☐ Disconnect:
 - the ignition coil connector (1) ,
 - the spark plug lead high-tension caps from the ignition coil.

WARNING

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

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

REFITTING

I - REFITTING PREPARATION OPERATION

- ☐ It is essential to apply a bead of **FLUOSTAR 2L** (see **Vehicle: Parts and consumables for the repair**) (MR 392, 04B, Consumables - Products) with a diameter of **2 mm** to the inner edge of the high-tension caps on the spark plug and ignition coil side.

II - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit:
 - the ignition coil,
 - the ignition coil bolts.
- ☐ Torque tighten the **ignition coil bolts (10 Nm)**.
- ☐ Check the spark plug leads and ignition coil leads match.
- ☐ Connect:
 - the spark plug lead high-tension caps to the ignition coil,
 - the ignition coil connector.

III - FINAL OPERATION.

- ☐ Refit the engine cover.

IGNITION

Plugs: Removal - Refitting

17A

D4F, and 740 – D4F, and 784

Special tooling required

Ele. 1933	23 N.m tightening wrench for spark plugs
Ele. 1382-01	14 mm Plug spanner.

Equipment required

set of feeler gauges

Tightening torques

spark plugs	23 N.m
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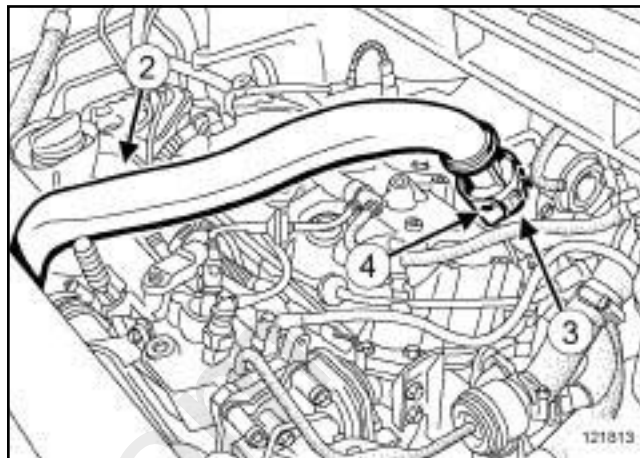
Spark plug electrode gap

Type of spark plug	Gap (mm)
NGK	0.65 ± 0.05

REMOVAL

I - REMOVAL PREPARATION OPERATION

D4F, and 784



121813

- ☐ Remove the turbocharger air outlet pipe bolt (2) from the intake distributor.
- ☐ Remove the turbocharger air outlet pipe clip (3) from the turbocharger.

Note:

If the clip (4) is removed from the heat resistant protector, the latter must be replaced.

- ☐ Move aside the turbocharger air outlet pipe.

D4F, and 740

- ☐ Remove the air filter unit (see 12A, Fuel mixture, Air filter unit: Removal - Refitting, page 12A-17) .

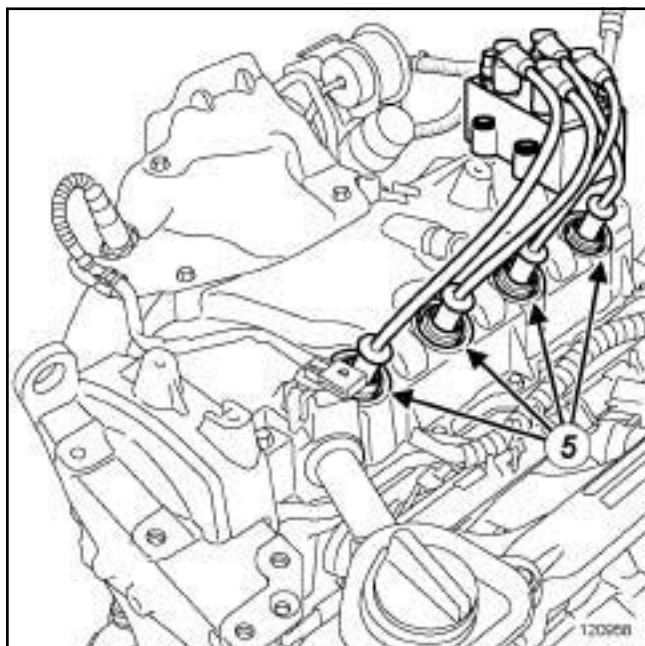
IGNITION

Plugs: Removal - Refitting

17A

D4F, and 740 – D4F, and 784

II - OPERATION FOR REMOVAL OF PART CONCERNED



120958



WARNING

To disconnect the spark plug leads, pull on the extensions and not on the leads.

Disconnect the spark plug ignition wiring harnesses (5) .

- ❑ Remove the spark plugs using the (Ele. 1933) equipped with the (Ele. 1382-01).

REFITTING

I - REFITTING PREPARATION OPERATION

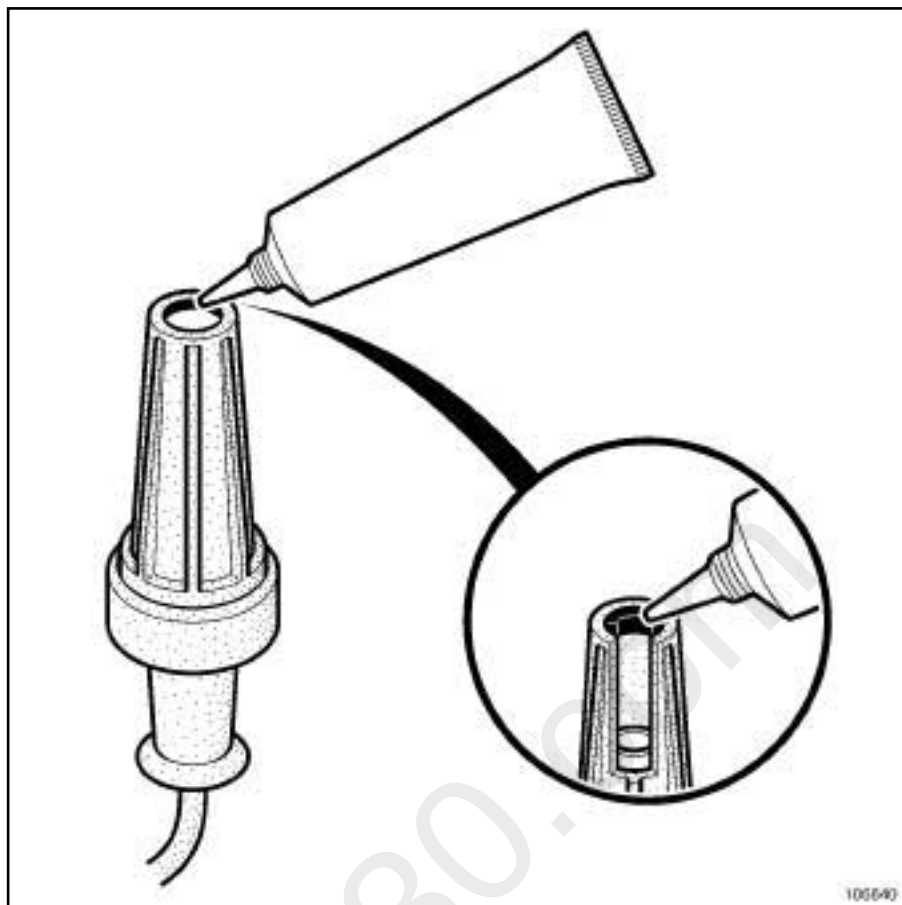
- ❑ Check and, if necessary, correct the spark plug electrode gaps using a **set of feeler gauges**.

IGNITION

Plugs: Removal - Refitting

17A

D4F, and 740 – D4F, and 784



106640

- ❑ It is essential to apply a bead of **FLUOSTAR 2L** (see **Vehicle: Parts and consumables for the repair**) (04B, Consumables - Products) with a diameter of **2 mm** to the inner edge of the high tension caps on the spark plug and ignition coil side.

II - REFITTING OPERATION FOR PART CONCERNED

- ❑ Refit the spark plugs.
- ❑ Torque tighten the **spark plugs (23 N.m)** using the **(Ele. 1933)** fitted with the **(Ele. 1382-01)**.

III - FINAL OPERATION

- ❑ Connect the ignition wiring harnesses to the spark plugs.

D4F, and 784

- ❑ Refit the turbocharger air outlet pipe.
- ❑ Clip the turbocharger air outlet pipe onto the turbocharger.
- ❑ Refit the turbocharger air outlet pipe bolt on the intake distributor.

D4F, and 740

- ❑ Refit the air filter unit (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page **12A-17**) .

IGNITION

Plugs: Removal - Refitting

17A

F4R

Special tooling required

Ele. 1382	Set of plug wrenches 16 & 21 mm torque 17.5 & 28 N.m + square adapter 9-9.52 for wrench Ele. 1086
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Equipment required

set of feeler gauges

Tightening torques

spark plugs	28 N.m
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Spark plug electrode gap

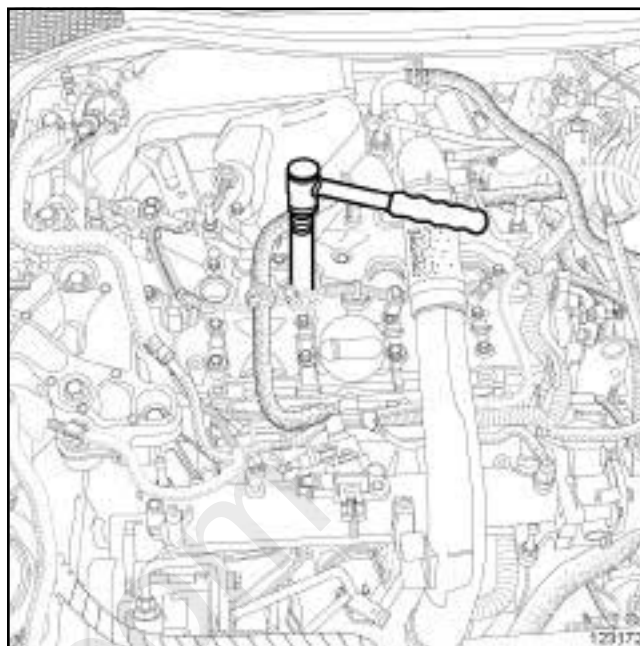
Type of spark plug	Gap (mm)
CHAMPION	0.90 ± 0.05
NGK	0.85 ± 0.05

REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Remove:
 - the engine cover (if fitted),
 - the ignition coils (see **17A, Ignition, Coils: Removal - Refitting**, page **17A-2**).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- ☐ Remove the spark plugs using the tool (**Ele. 1382**) with the **grey** sleeve.

REFITTING

I - REFITTING PREPARATION OPERATION

- ☐ Check and, if necessary, correct the spark plug electrode gaps using a **set of feeler gauges**.

II - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the spark plugs.
- ☐ Torque tighten the **spark plugs (28 N.m)** using (**Ele. 1382**) fitted with the **grey** sleeve.

III - FINAL OPERATION

- ☐ Refit:
 - the ignition coils (see **17A, Ignition, Coils: Removal - Refitting**, page **17A-2**),
 - the engine cover (if fitted).

IGNITION

Plugs: Removal - Refitting

17A

M4R

Special tooling required

Ele. 1382	Set of plug wrenches 16 & 21 mm torque 17.5 & 28 N.m + square adapter 9-9.52 for wrench Ele. 1086
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Tightening torques

spark plugs	17.5 N.m
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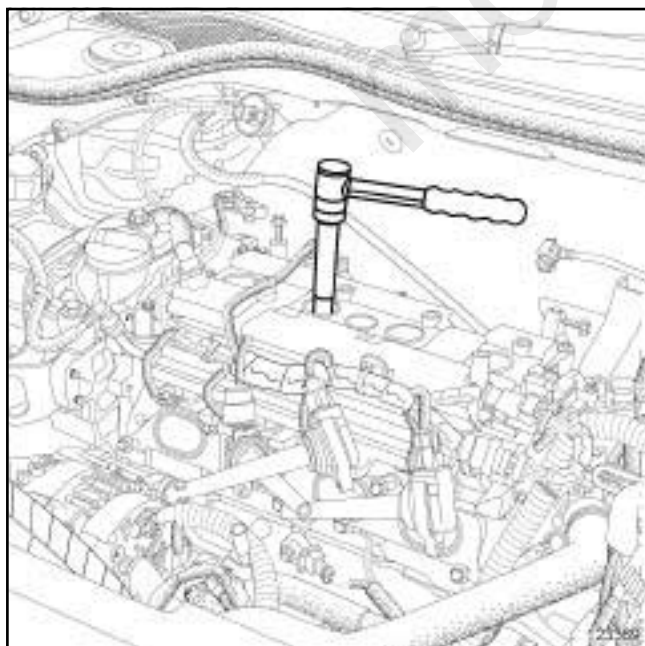
REMOVAL

I - REMOVAL PREPARATION OPERATION

☐ Remove:

- the engine cover,
- the inlet manifold (see **12A, Fuel mixture, Inlet distributor: Removal - Refitting**, page **12A-46**),
- the ignition coils (see **17A, Ignition, Coils: Removal - Refitting**, page **17A-2**).

II - OPERATION FOR REMOVAL OF PART CONCERNED



123369

- ☐ Remove the spark plugs using the tool (**Ele. 1382**) with the **red** sleeve equipped with the tool.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the spark plugs.
- ☐ Torque tighten the **spark plugs (17.5 N.m)** using the tool (**Ele. 1382**) with the **red** sleeve equipped with the tool.

II - FINAL OPERATION

☐ Refit:

- the ignition coils (see **17A, Ignition, Coils: Removal - Refitting**, page **17A-2**),
- the inlet manifold (see **12A, Fuel mixture, Inlet distributor: Removal - Refitting**, page **12A-46**),
- the engine cover.

IGNITION

Plugs: Removal - Refitting

17A

K4J or K4M

Special tooling required

Ele. 1382	Set of plug wrenches 16 & 21 mm torque 17.5 & 28 N.m + square adapter 9-9.52 for wrench Ele. 1086
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Tightening torques

spark plugs	28 N.m
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Spark plug electrode gap

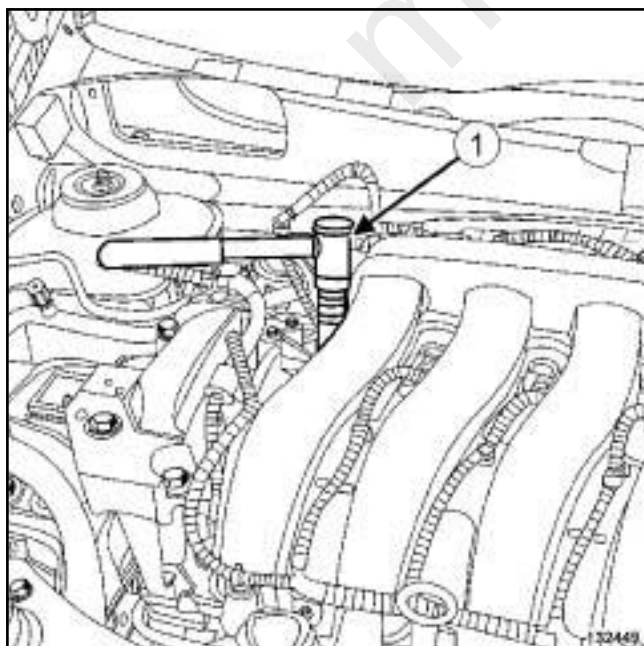
Type of spark plug	Gap (mm)
CHAMPION	0.95 ± 0.05
EYQUEM	0.95 ± 0.05
NGK	0.95 ± 0.05

REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Remove the ignition coils (see **17A, Ignition, Coils: Removal - Refitting**, page 17A-2) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



132449

- ☐ Remove the spark plugs using **(Ele. 1382) (1)** .

REFITTING

I - REFITTING PREPARATION OPERATION

- ☐ Check and, if necessary, correct the electrode gap for each spark plug.

II - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the spark plugs.
- ☐ Torque tighten the **spark plugs (28 N.m)** using **(Ele. 1382)** fitted with the **grey** sleeve.

III - FINAL OPERATION

- ☐ Refit the ignition coils (see **17A, Ignition, Coils: Removal - Refitting**, page 17A-2) .

D4F, and 740 – D4F, and 742 or 764

Special tooling required

Ele. 1933	23 N.m tightening wrench for spark plugs
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Ele. 1382-01	14 mm Plug spanner.
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Equipment required

set of feeler gauges

Tightening torques

spark plugs	23 N.m
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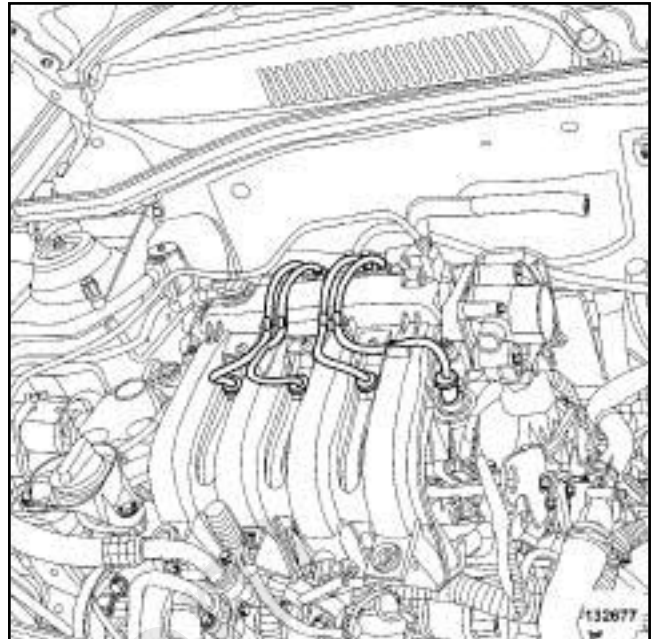
Spark plug electrode gap

Type of spark plug	Gap (mm)
CHAMPION	0.90 ± 0.05
NGK	0.85 ± 0.05

REMOVAL**I - REMOVAL PREPARATION OPERATION**

D4F, and 740 – D4F, and 742 or 764

- ☐ Remove the air filter unit (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page **12A-17**) .

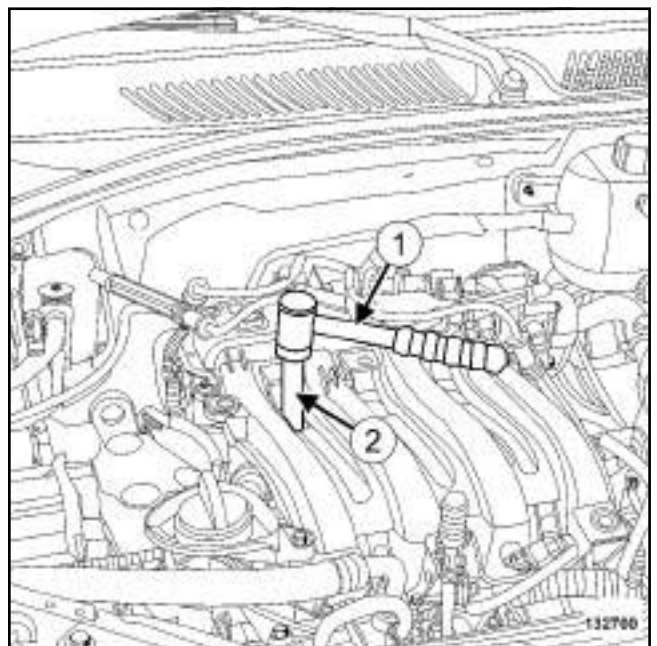


132677

**WARNING**

To disconnect the spark plug leads, pull on the extensions and not on the leads.

Disconnect the spark plug wiring.

II - OPERATION FOR REMOVAL OF PART CONCERNED

132700

- ☐ Remove the spark plugs using the **(Ele. 1933)** (1) equipped with the **(Ele. 1382-01)** (2) .

IGNITION

Plugs: Removal - Refitting

17A

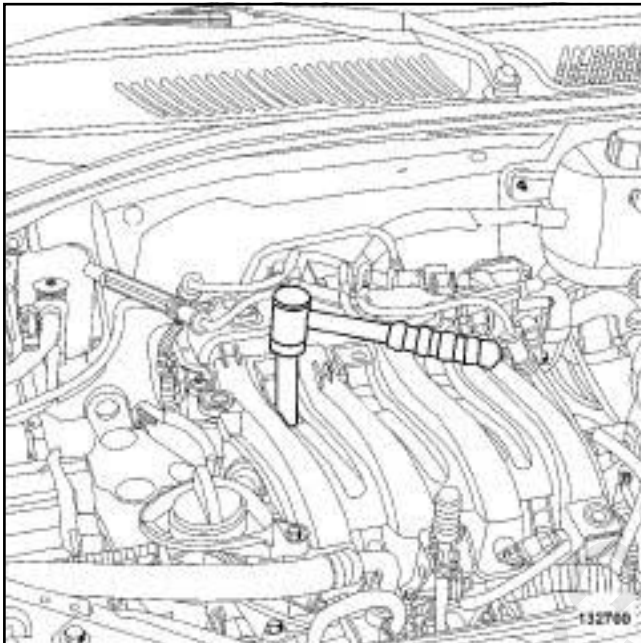
D4F, and 740 – D4F, and 742 or 764

REFITTING

I - REMOVAL PREPARATION OPERATION

- ☐ Check and, if necessary, correct the spark plug electrode gaps using a **set of feeler gauges**.

II - REFITTING OPERATION FOR PART CONCERNED



132700

- ☐ Refit the spark plugs.
- ☐ Torque tighten the **spark plugs (23 N.m)** using the **(Ele. 1933)** fitted with the **(Ele. 1382-01)**.