



Automobiles S.p.A.

Quality - P.I. - Safety
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P. 697/07

Turin, 22 November 2007

To **FIAT GROUP Automobiles IMPORTERS/ ITALY
MARKET**

For the attention of **Technical Service Managers**

Importers
For the attention of **Ing. Saettone**

CAMPAIGN 5264 – SERVICE CAMPAIGN

**Models FIAT Linea, Idea, 500, Palio, Albea, GPunto with Fire 1.4 8V – 1.2 8V EVO
engines
- timing sensor**

On some **Fiat Linea** cars with chassis numbers in a range from 3064666 to 3070232, on some **Fiat Idea** cars with chassis numbers in a range from 172646 to 174847, on some **Fiat 500** cars with chassis numbers in a range from 28623 to 46560, on some **Fiat Palio** cars with chassis numbers in a range from 6459202 to 6461617, on some **Fiat Albea** cars with chassis numbers in a range from 6459058 to 6461684, on some **Fiat GPunto** cars with chassis numbers in a range from 245262 to 362724 and from 1318414 to 1341134 the engine failure warning light could come on (error P0340) due a problem in the manufacturing process that affects cam cover position.

It will therefore be essential to service the cars prior to handover, operating in accordance with the cycles given in the annex (annex 1).

We are also sending you instructions for the procedure to be followed for practical implementation of the operation by Dealers (see appendix 2).

Yours sincerely

A. Milizia

Enclosures

Annex 1



Fiat Group Automobiles S.p.A.
Customer Services
Technical Service

MODEL: LINEA
VERSION: T.T. FIRE1400 8v EVO2
COMPONENT: Timing sensor
FAULT: Position not compliant

FAULT TO BE PREVENTED:

Anomalous operation of injection system with IE warning light activation (error P0340)

TECHNICAL CAUSE:

Incorrect positioning of the cam cover due to the installation process does not guarantee the timing sensor operating gap and ie warning light comes on (error P0340).

OPERATIONS IN PRODUCTION:

Correct positioning of cam cover guaranteed.

OPERATING PROCEDURE

PREVENTIVE ACTION:

Check for a cross on the cam cover under the air filter.

The vehicle is compliant if this is present.

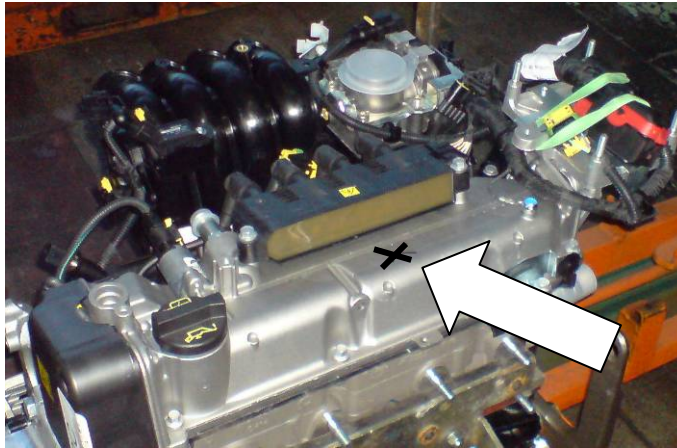
- If not present, check positioning of cam cover.
- If this is not correct, reposition the cam cover with the specific tool.

OPERATING PROCEDURE

Working in the engine compartment, proceed as follows:

- Remove the air filter casing assembly as described in op. 1048 A 10 .

Check for a cross on the cam cover

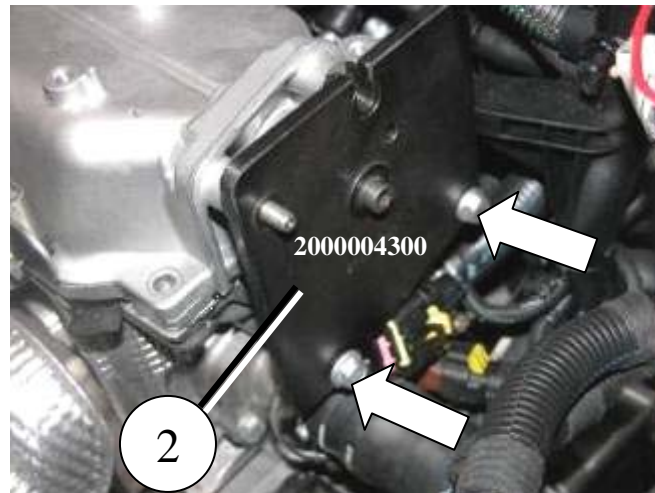


- The vehicle is compliant if this is present.
- Fit the air filter casing assembly.
 - If not present, proceed as follows:
 - Disconnect the battery negative terminal.
 - Remove the injection control unit and mount as described in op. 1056 B 87.
 - Unscrew the screw (arrowed) and remove timing sensor 1.

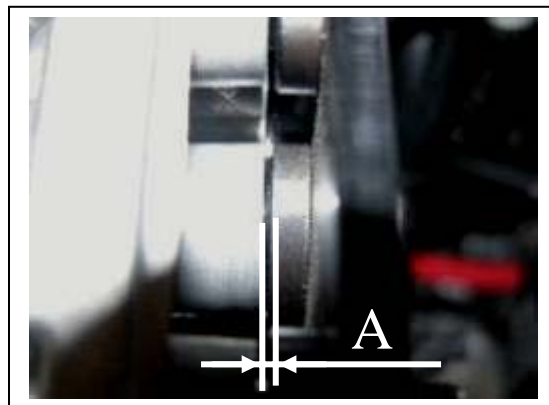


-Position tool 2 part. 2000004300.

- Secure the tool in the cylinder head and fully tighten the bolts (arrowed).



- Check gap “A” between the tool and the timing sensor boss contact surface.



- If the boss contact surface is in contact with the tool, the vehicle is compliant.

- Fit the timing sensor and all the other parts by reversing the removal instructions.

- If the boss contact surface is not in contact with the tool, the vehicle is not compliant. In this case, proceed as follows:

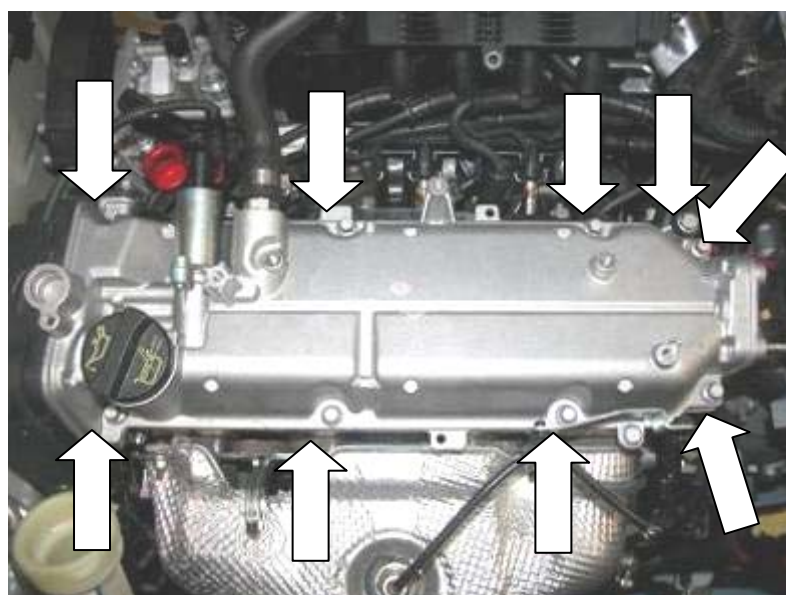
- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.



- Loosen the bolts (arrowed) securing the timing belt cover to the cam cover.

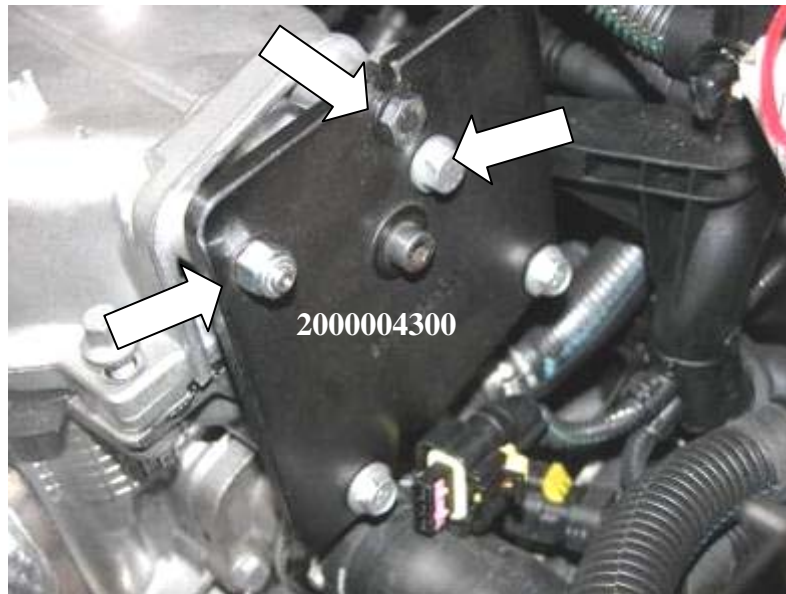


- Loosen the bolts securing the cam cover to the cylinder head and the bolts securing the wiring bracket (arrowed).



- Screw in the bolts/nut (arrowed) securing part 2000004300 to the cam cover slightly and then tighten to bring the cam cover into contact with the tool surface.

NOTE: screw in slightly to prevent the slip between the cam cover and cylinder head from damaging the gasket.



- Tighten the cam cover and wiring bracket bolts to a torque of 9 Nm.

- Tighten the timing belt cover bolts to a torque of 9 Nm.

- Remove tool part. 2000004300.

- Fit the ignition coil and tighten the bolts to a torque of 9 Nm.

Fit the timing sensor and tighten the bolt to a torque of 9Nm.

- Fit all parts removed previously, reversing removal instructions.

- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.

IDENTIFICATION OF OPERATION:

White paint spot on the cam cover in the unused boss (arrowed).



PARTS LOCATION

NONE

OPERATION TIME

Operation A	Labour hours = 0.25 (check)
Operation B	Labour hours = 0.60 (check + check with tool)
Operation C	Labour hours = 0.85 (check + check with tool + operation)

MANAGEMENT OF PARTS REMOVED DURING SERVICE

NONE



Fiat Group Automobiles S.p.A.

Customer Services
Technical Service

MODEL: IDEA
VERSION: ALL FIRE 1400 8v EVO2
COMPONENT: Timing sensor
FAULT: Position not compliant

FAULT TO BE PREVENTED:

Anomalous operation of injection system with IE warning light activation (error P0340)

TECHNICAL CAUSE:

Incorrect positioning of the cam cover due to the installation process does not guarantee the timing sensor operating gap and ie warning light comes on (error P0340).

OPERATIONS IN PRODUCTION:

Correct positioning of cam cover guaranteed.

OPERATING PROCEDURE

PREVENTIVE ACTION:

Check for a cross on the cam cover under the air filter.

The vehicle is compliant if this is present.

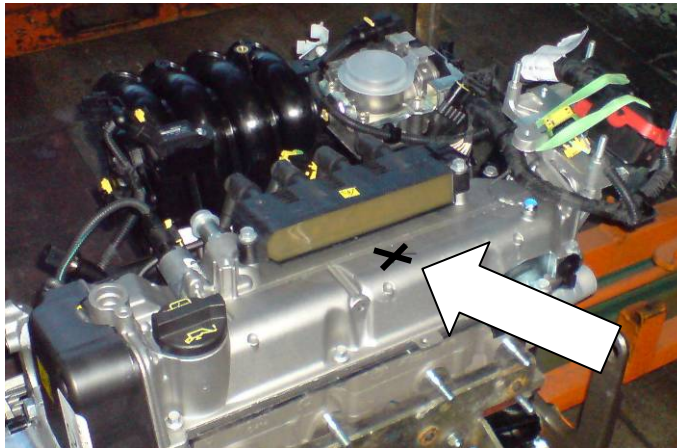
- If not present, check positioning of cam cover.
- If this is not correct, reposition the cam cover with the specific tool.

OPERATING PROCEDURE

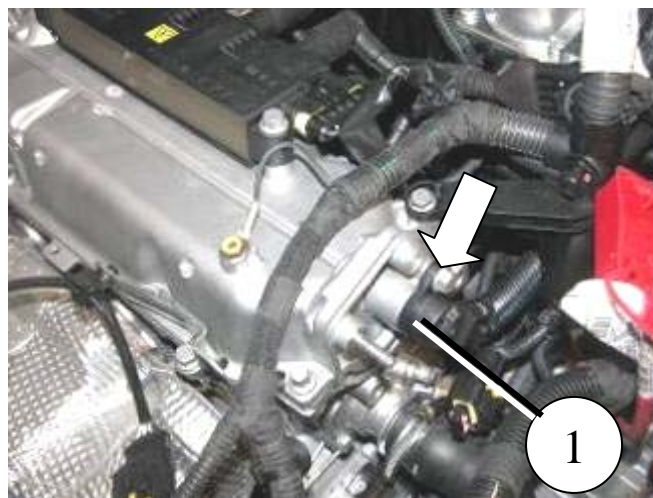
Working in the engine compartment, proceed as follows:

- Remove the air filter casing assembly as described in op. 1048 A 10 .

Check for a cross on the cam cover

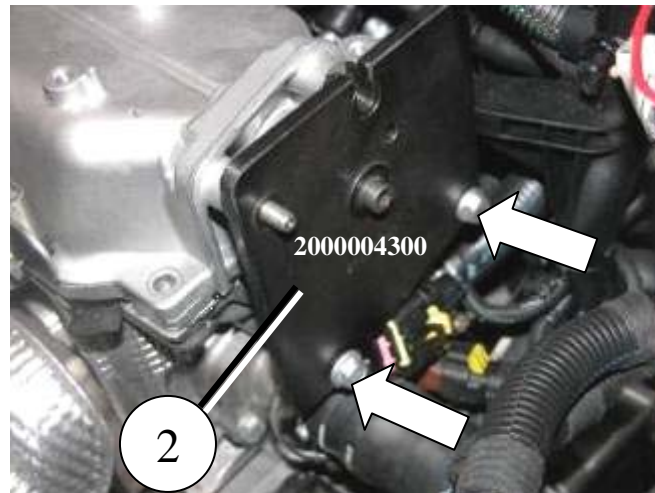


- The vehicle is compliant if this is present.
- Fit the air filter casing assembly.
 - If not present, proceed as follows:
 - Disconnect the battery negative terminal.
 - Remove the injection control unit and mount as described in op. 1056 B 87.
 - Unscrew the screw (arrowed) and remove timing sensor 1.

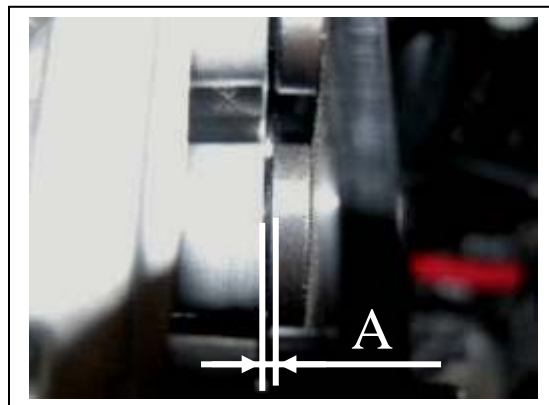


-Position tool 2 part. 2000004300.

- Secure the tool in the cylinder head and fully tighten the bolts (arrowed).



- Check gap “A” between the tool and the timing sensor boss contact surface.



- If the boss contact surface is in contact with the tool, the vehicle is compliant.

- Fit the timing sensor and all the other parts by reversing the removal instructions.

- If the boss contact surface is not in contact with the tool, the vehicle is not compliant. In this case, proceed as follows:

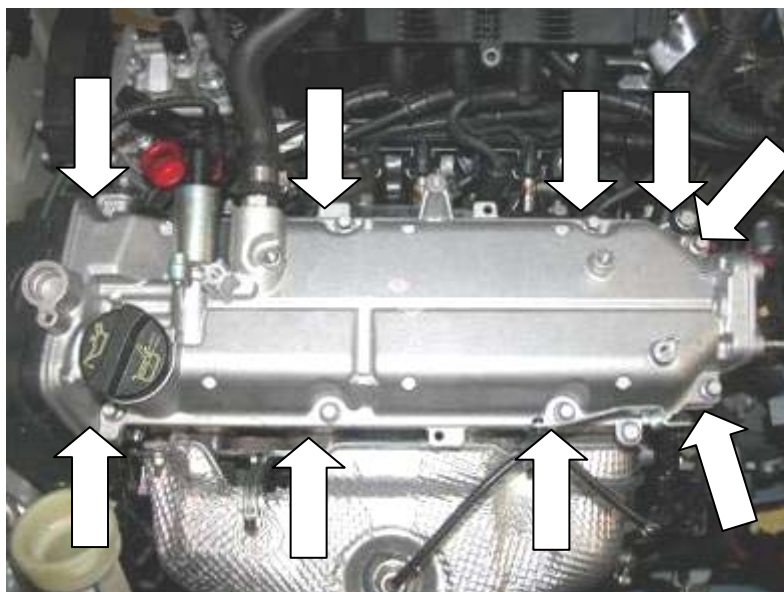
- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.



- Loosen the bolts (arrowed) securing the timing belt cover to the cam cover.

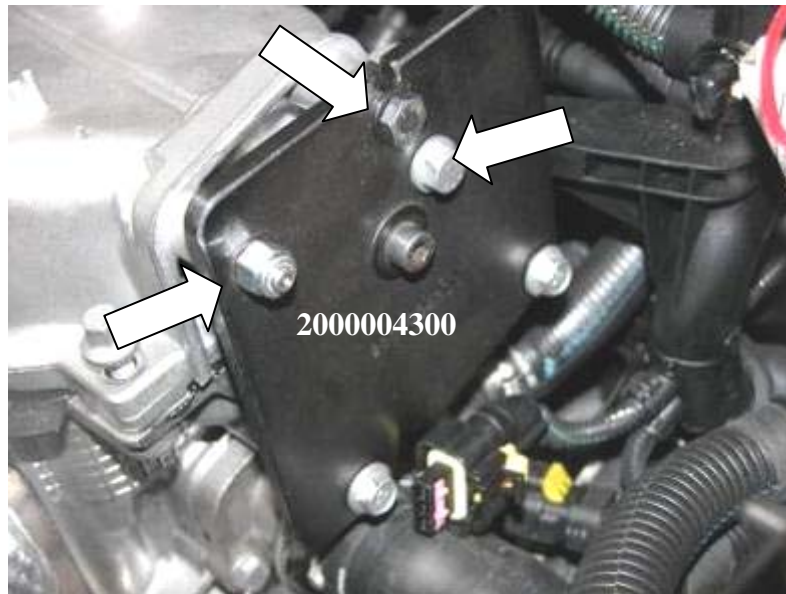


- Loosen the bolts securing the cam cover to the cylinder head and the bolts securing the wiring bracket (arrowed).



- Screw in the bolts/nut (arrowed) securing part 2000004300 to the cam cover slightly and then tighten to bring the cam cover into contact with the tool surface.

NOTE: screw in slightly to prevent the slip between the cam cover and cylinder head from damaging the gasket.



- Tighten the cam cover and wiring bracket bolts to a torque of 9 Nm.

- Tighten the timing belt cover bolts to a torque of 9 Nm.

- Remove tool part. 2000004300.

- Fit the ignition coil and tighten the bolts to a torque of 9 Nm.

Fit the timing sensor and tighten the bolt to a torque of 9Nm.

- Fit all parts removed previously, reversing removal instructions.

- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.

IDENTIFICATION OF OPERATION:

White paint spot on the cam cover in the unused boss (arrowed).

**PARTS LOCATION**

NONE

OPERATION TIME

Operation D	Labour hours = 0.25 (check)
Operation E	Labour hours = 0.60 (check + check with tool)
Operation F	Labour hours = 0.85 (check + check with tool + operation)

MANAGEMENT OF PARTS REMOVED DURING SERVICE

NONE



Fiat Group Automobiles S.p.A.

Customer Services
Technical Service

MODEL: 500
VERSION: FIRE 1242 8v EVO2
COMPONENT: Timing sensor
FAULT: Position not compliant

FAULT TO BE PREVENTED:

Anomalous operation of injection system with IE warning light activation (error P0340)

TECHNICAL CAUSE:

Incorrect positioning of the cam cover due to the installation process does not guarantee the timing sensor operating gap and ie warning light comes on (error P0340).

OPERATIONS IN PRODUCTION:

Correct positioning of cam cover guaranteed.

OPERATING PROCEDURE

PREVENTIVE ACTION:

Check for a cross on the cam cover under the air filter.

The vehicle is compliant if this is present.

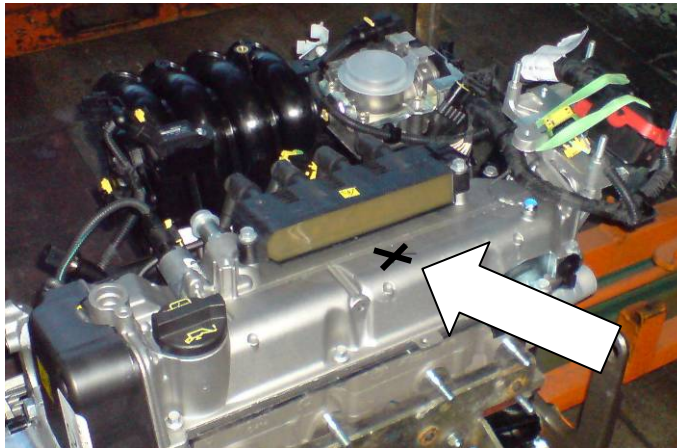
- If not present, check positioning of cam cover.
- If this is not correct, reposition the cam cover with the specific tool.

OPERATING PROCEDURE

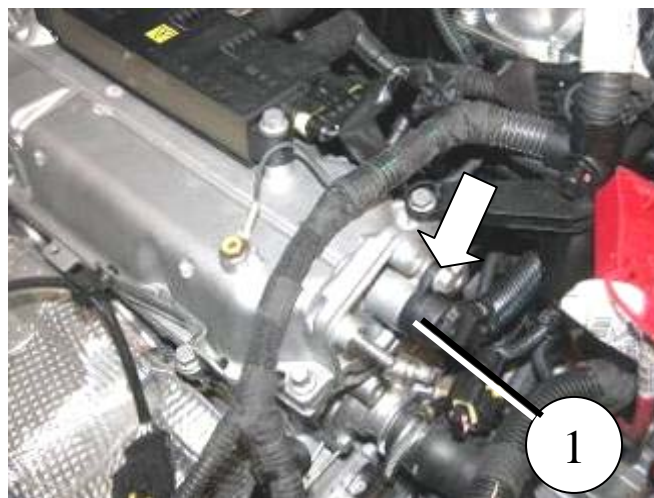
Working in the engine compartment, proceed as follows:

- Remove the air filter casing assembly as described in op. 1048 A 10 .

Check for a cross on the cam cover

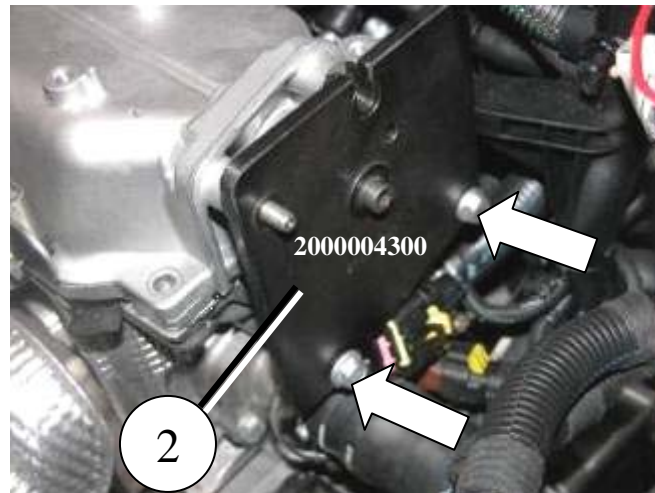


- The vehicle is compliant if this is present.
- Fit the air filter casing assembly.
 - If not present, proceed as follows:
 - Disconnect the battery negative terminal.
 - Remove the injection control unit and mount as described in op. 1056 B 87.
 - Unscrew the screw (arrowed) and remove timing sensor 1.

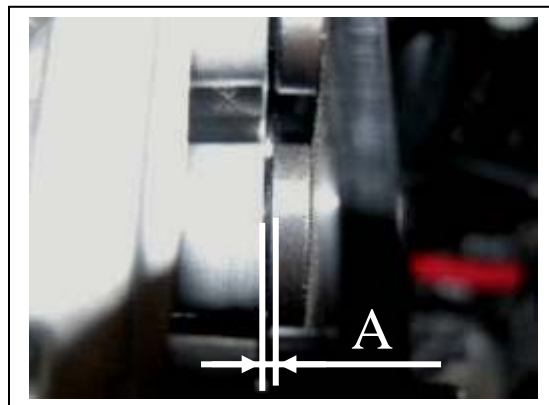


-Position tool 2 part. 2000004300.

- Secure the tool in the cylinder head and fully tighten the bolts (arrowed).



- Check gap “A” between the tool and the timing sensor boss contact surface.



- If the boss contact surface is in contact with the tool, the vehicle is compliant.

- Fit the timing sensor and all the other parts by reversing the removal instructions.

- If the boss contact surface is not in contact with the tool, the vehicle is not compliant. In this case, proceed as follows:

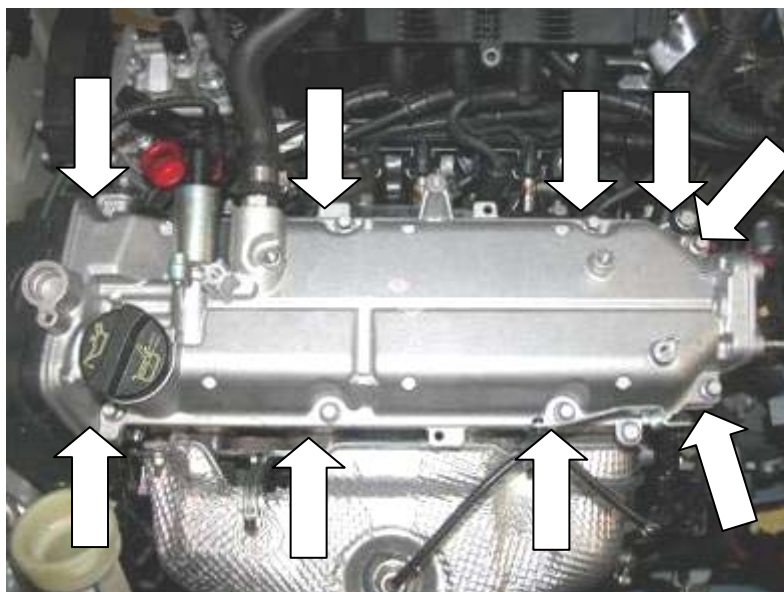
- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.



- Loosen the bolts (arrowed) securing the timing belt cover to the cam cover.

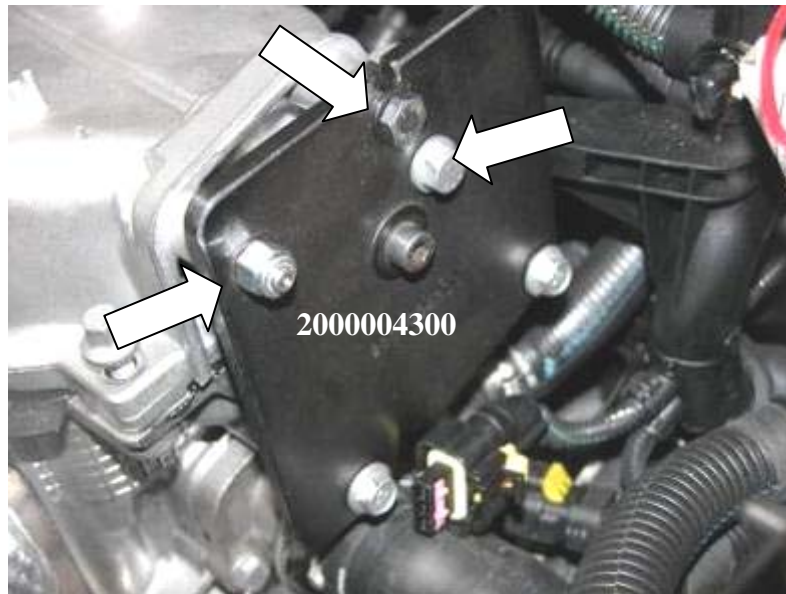


- Loosen the bolts securing the cam cover to the cylinder head and the bolts securing the wiring bracket (arrowed).



- Screw in the bolts/nut (arrowed) securing part 2000004300 to the cam cover slightly and then tighten to bring the cam cover into contact with the tool surface.

NOTE: screw in slightly to prevent the slip between the cam cover and cylinder head from damaging the gasket.



- Tighten the cam cover and wiring bracket bolts to a torque of 9 Nm.

- Tighten the timing belt cover bolts to a torque of 9 Nm.

- Remove tool part. 2000004300.

- Fit the ignition coil and tighten the bolts to a torque of 9 Nm.

Fit the timing sensor and tighten the bolt to a torque of 9Nm.

- Fit all parts removed previously, reversing removal instructions.

- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.

IDENTIFICATION OF OPERATION:

White paint spot on the cam cover in the unused boss (arrowed).



PARTS LOCATION

NONE

OPERATION TIME

Operation G	Labour hours = 0.25 (check)
Operation H	Labour hours = 0.60 (check + check with tool)
Operation I	Labour hours = 0.85 (check + check with tool + operation)

MANAGEMENT OF PARTS REMOVED DURING SERVICE

NONE



Fiat Group Automobiles S.p.A.

Customer Services
Technical Service

MODEL: ALBEA
VERSION: T.T. FIRE1400 8v EVO2
COMPONENT: Timing sensor
FAULT: Position not compliant

FAULT TO BE PREVENTED:

Anomalous operation of injection system with IE warning light activation (error P0340)

TECHNICAL CAUSE:

Incorrect positioning of the cam cover due to the installation process does not guarantee the timing sensor operating gap and ie warning light comes on (error P0340).

OPERATIONS IN PRODUCTION:

Correct positioning of cam cover guaranteed.

OPERATING PROCEDURE

PREVENTIVE ACTION:

Check for a cross on the cam cover under the air filter.

The vehicle is compliant if this is present.

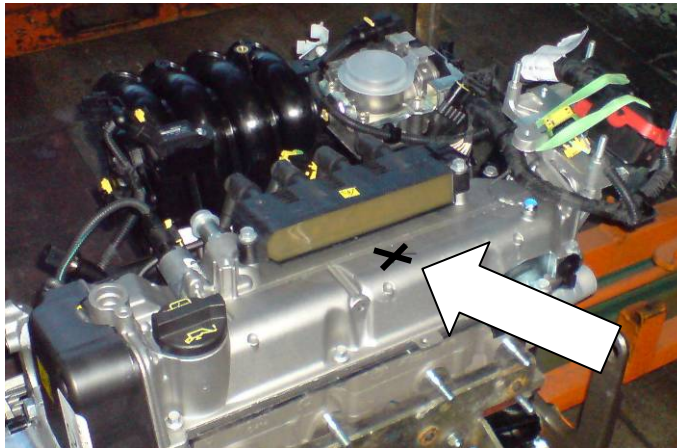
- If not present, check positioning of cam cover.
- If this is not correct, reposition the cam cover with the specific tool.

OPERATING PROCEDURE

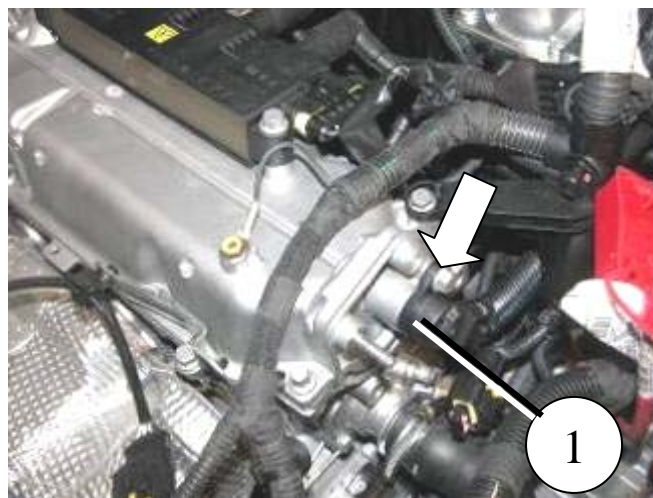
Working in the engine compartment, proceed as follows:

- Remove the air filter casing assembly as described in op. 1048 A 10 .

Check for a cross on the cam cover

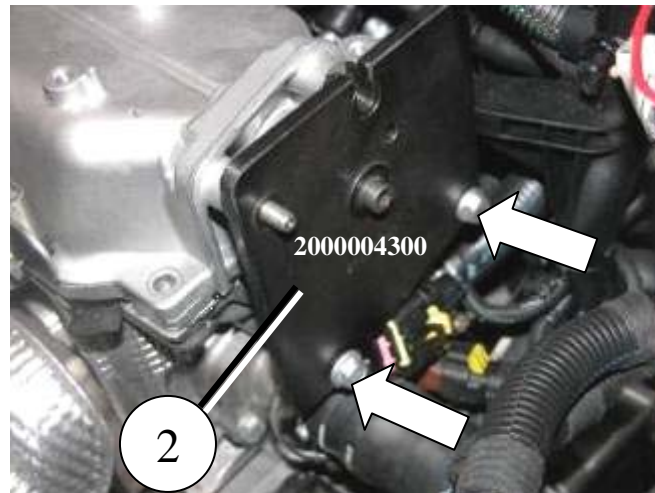


- The vehicle is compliant if this is present.
- Fit the air filter casing assembly.
 - If not present, proceed as follows:
 - Disconnect the battery negative terminal.
 - Remove the injection control unit and mount as described in op. 1056 B 87.
 - Unscrew the screw (arrowed) and remove timing sensor 1.

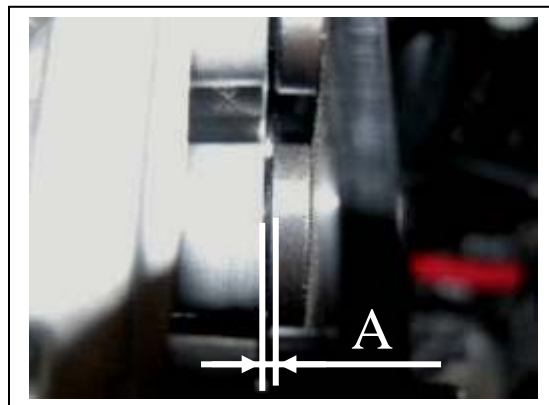


-Position tool 2 part. 2000004300.

- Secure the tool in the cylinder head and fully tighten the bolts (arrowed).



- Check gap “A” between the tool and the timing sensor boss contact surface.



- If the boss contact surface is in contact with the tool, the vehicle is compliant.

- Fit the timing sensor and all the other parts by reversing the removal instructions.

- If the boss contact surface is not in contact with the tool, the vehicle is not compliant. In this case, proceed as follows:

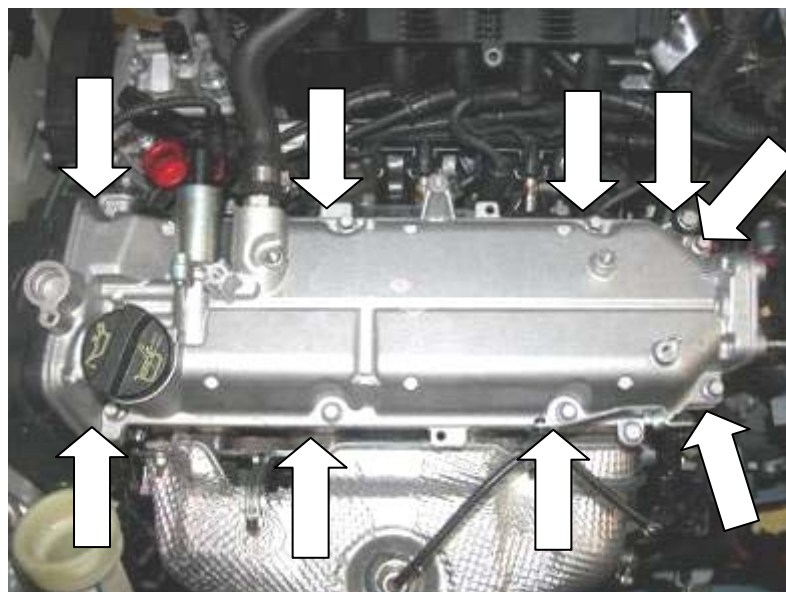
- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.



- Loosen the bolts (arrowed) securing the timing belt cover to the cam cover.

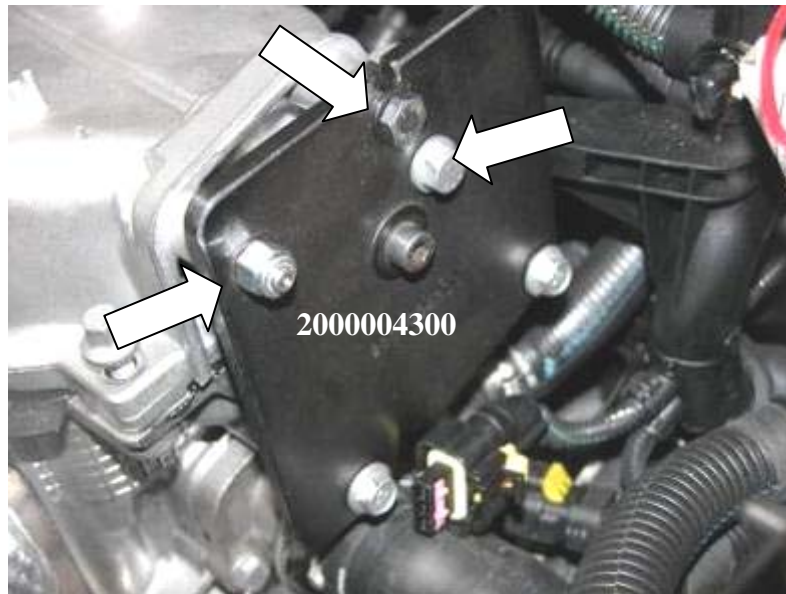


- Loosen the bolts securing the cam cover to the cylinder head and the bolts securing the wiring bracket (arrowed).



- Screw in the bolts/nut (arrowed) securing part 2000004300 to the cam cover slightly and then tighten to bring the cam cover into contact with the tool surface.

NOTE: screw in slightly to prevent the slip between the cam cover and cylinder head from damaging the gasket.



- Tighten the cam cover and wiring bracket bolts to a torque of 9 Nm.

- Tighten the timing belt cover bolts to a torque of 9 Nm.

- Remove tool part. 2000004300.

- Fit the ignition coil and tighten the bolts to a torque of 9 Nm.

Fit the timing sensor and tighten the bolt to a torque of 9Nm.

- Fit all parts removed previously, reversing removal instructions.

- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.

IDENTIFICATION OF OPERATION:

White paint spot on the cam cover in the unused boss (arrowed).



PARTS LOCATION

NONE

OPERATION TIME

Operation L	labour hours = 0.25 (check)
Operation M	Labour hours = 0.60 (check + check with tool)
Operation N	Labour hours = 0.85 (check + check with tool + operation)

MANAGEMENT OF PARTS REMOVED DURING SERVICE

NONE



Fiat Group Automobiles S.p.A.

Customer Services
Technical Service

MODEL: GRANDE PUNTO
VERSION: T.T. FIRE1400 8v EVO2
COMPONENT: Timing sensor
FAULT: Position not compliant

FAULT TO BE PREVENTED:

Anomalous operation of injection system with IE warning light activation (error P0340)

TECHNICAL CAUSE:

Incorrect positioning of the cam cover due to the installation process does not guarantee the timing sensor operating gap and ie warning light comes on (error P0340).

OPERATIONS IN PRODUCTION:

Correct positioning of cam cover guaranteed.

OPERATING PROCEDURE

PREVENTIVE ACTION:

Check for a cross on the cam cover under the air filter.

The vehicle is compliant if this is present.

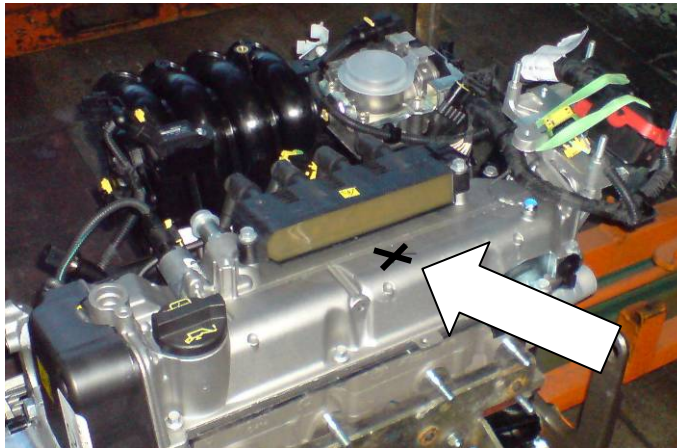
- If not present, check positioning of cam cover.
- If this is not correct, reposition the cam cover with the specific tool.

OPERATING PROCEDURE

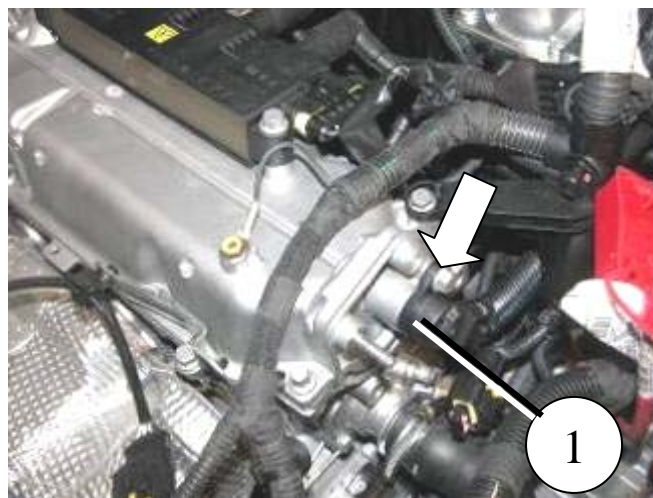
Working in the engine compartment, proceed as follows:

- Remove the air filter casing assembly as described in op. 1048 A 10 .

Check for a cross on the cam cover

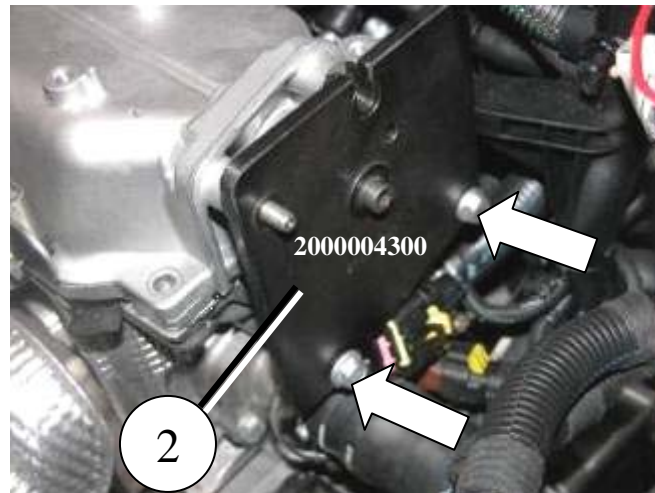


- The vehicle is compliant if this is present.
- Fit the air filter casing assembly.
 - If not present, proceed as follows:
 - Disconnect the battery negative terminal.
 - Remove the injection control unit and mount as described in op. 1056 B 87.
 - Unscrew the screw (arrowed) and remove timing sensor 1.

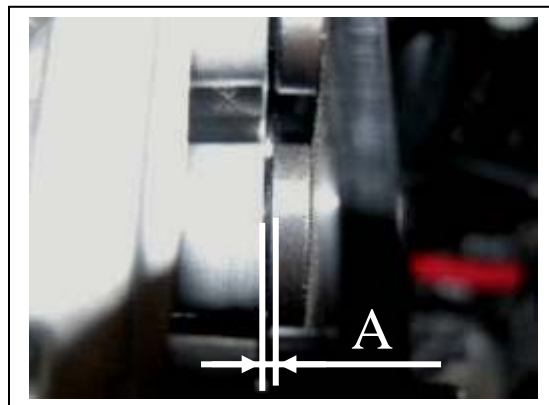


-Position tool 2 part. 2000004300.

- Secure the tool in the cylinder head and fully tighten the bolts (arrowed).



- Check gap “A” between the tool and the timing sensor boss contact surface.



- If the boss contact surface is in contact with the tool, the vehicle is compliant.

- Fit the timing sensor and all the other parts by reversing the removal instructions.

- If the boss contact surface is not in contact with the tool, the vehicle is not compliant. In this case, proceed as follows:

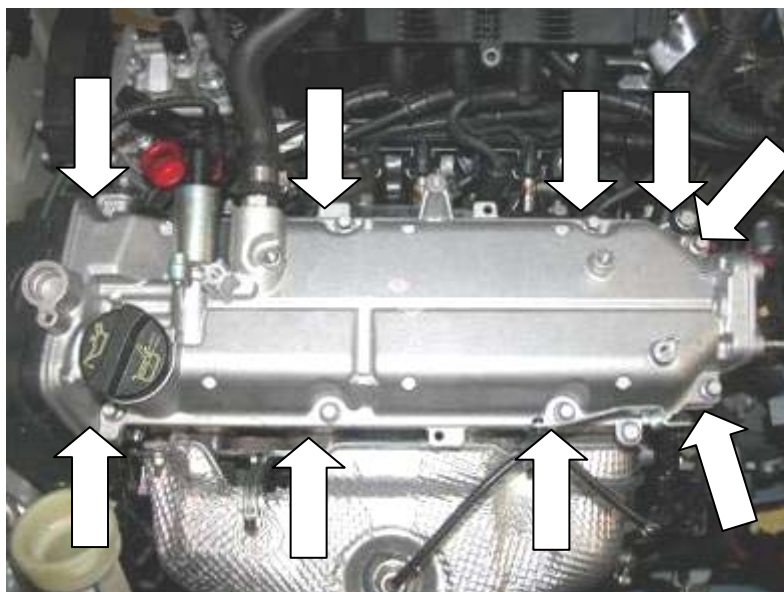
- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.



- Loosen the bolts (arrowed) securing the timing belt cover to the cam cover.

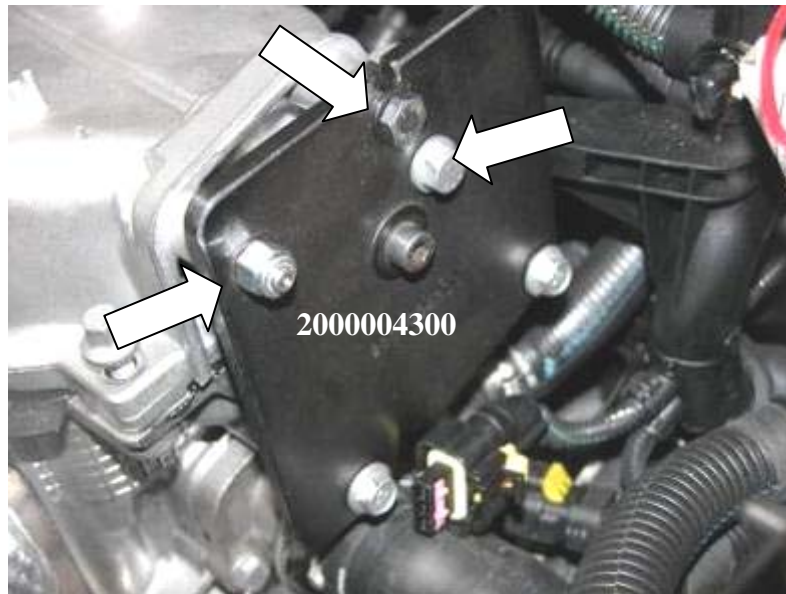


- Loosen the bolts securing the cam cover to the cylinder head and the bolts securing the wiring bracket (arrowed).



- Screw in the bolts/nut (arrowed) securing part 2000004300 to the cam cover slightly and then tighten to bring the cam cover into contact with the tool surface.

NOTE: screw in slightly to prevent the slip between the cam cover and cylinder head from damaging the gasket.



- Tighten the cam cover and wiring bracket bolts to a torque of 9 Nm.

- Tighten the timing belt cover bolts to a torque of 9 Nm.

- Remove tool part. 2000004300.

- Fit the ignition coil and tighten the bolts to a torque of 9 Nm.

Fit the timing sensor and tighten the bolt to a torque of 9Nm.

- Fit all parts removed previously, reversing removal instructions.

- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.

IDENTIFICATION OF OPERATION:

White paint spot on the cam cover in the unused boss (arrowed).



PARTS LOCATION

NONE

OPERATION TIME

Operation O	labour hours = 0.25 (check)
Operation P	labour hours = 0.60 (check + check with tool)
Operation Q	labour hours = 0.85 (check + check with tool + operation)

MANAGEMENT OF PARTS REMOVED DURING SERVICE

NONE



Fiat Group Automobiles S.p.A.

Customer Services
Technical Service

MODEL: PALIO
VERSION: T.T. FIRE1400 8v EVO2
COMPONENT: Timing sensor
FAULT: Position not compliant

FAULT TO BE PREVENTED:

Anomalous operation of injection system with IE warning light activation (error P0340)

TECHNICAL CAUSE:

Incorrect positioning of the cam cover due to the installation process does not guarantee the timing sensor operating gap and ie warning light comes on (error P0340).

OPERATIONS IN PRODUCTION:

Correct positioning of cam cover guaranteed.

OPERATING PROCEDURE

PREVENTIVE ACTION:

Check for a cross on the cam cover under the air filter.

The vehicle is compliant if this is present.

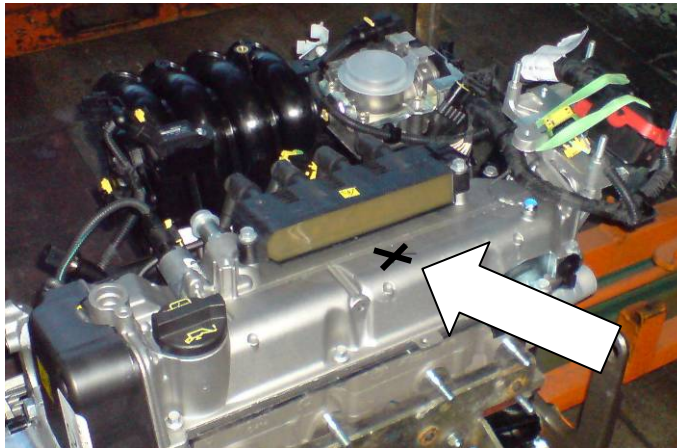
- If not present, check positioning of cam cover.
- If this is not correct, reposition the cam cover with the specific tool.

OPERATING PROCEDURE

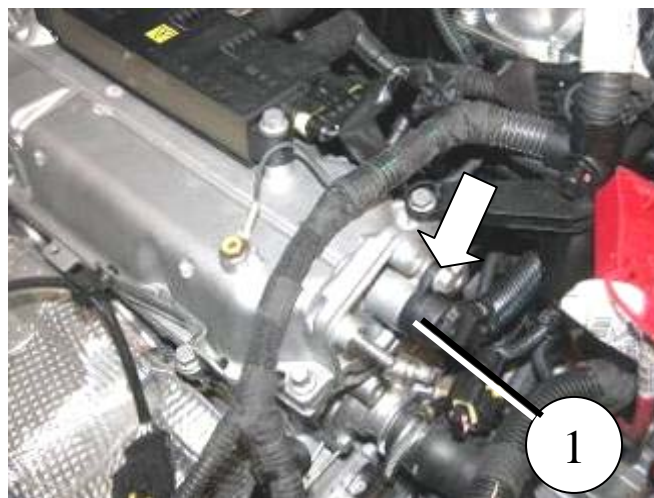
Working in the engine compartment, proceed as follows:

- Remove the air filter casing assembly as described in op. 1048 A 10 .

Check for a cross on the cam cover

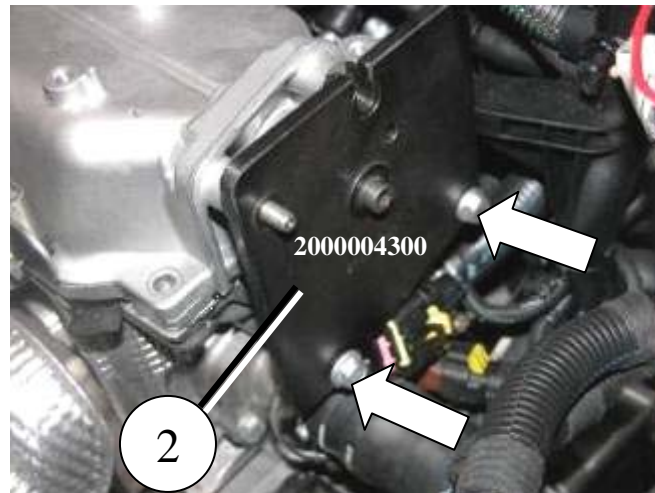


- The vehicle is compliant if this is present.
- Fit the air filter casing assembly.
 - If not present, proceed as follows:
 - Disconnect the battery negative terminal.
 - Remove the injection control unit and mount as described in op. 1056 B 87.
 - Unscrew the screw (arrowed) and remove timing sensor 1.

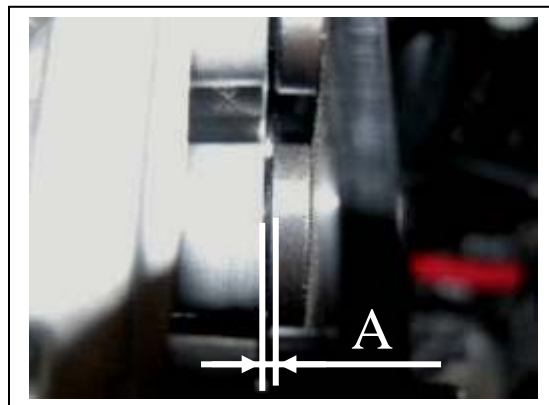


-Position tool 2 part. 2000004300.

- Secure the tool in the cylinder head and fully tighten the bolts (arrowed).



- Check gap “A” between the tool and the timing sensor boss contact surface.



- If the boss contact surface is in contact with the tool, the vehicle is compliant.

- Fit the timing sensor and all the other parts by reversing the removal instructions.

- If the boss contact surface is not in contact with the tool, the vehicle is not compliant. In this case, proceed as follows:

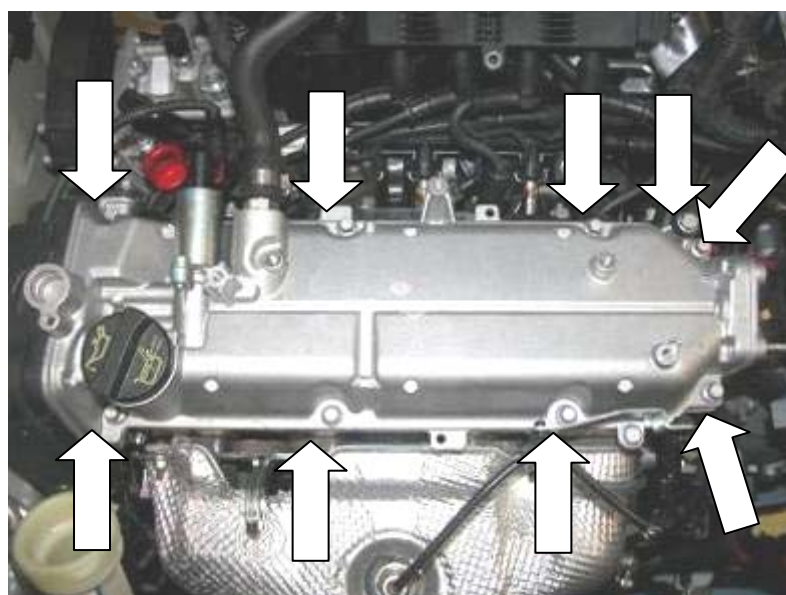
- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.



- Loosen the bolts (arrowed) securing the timing belt cover to the cam cover.

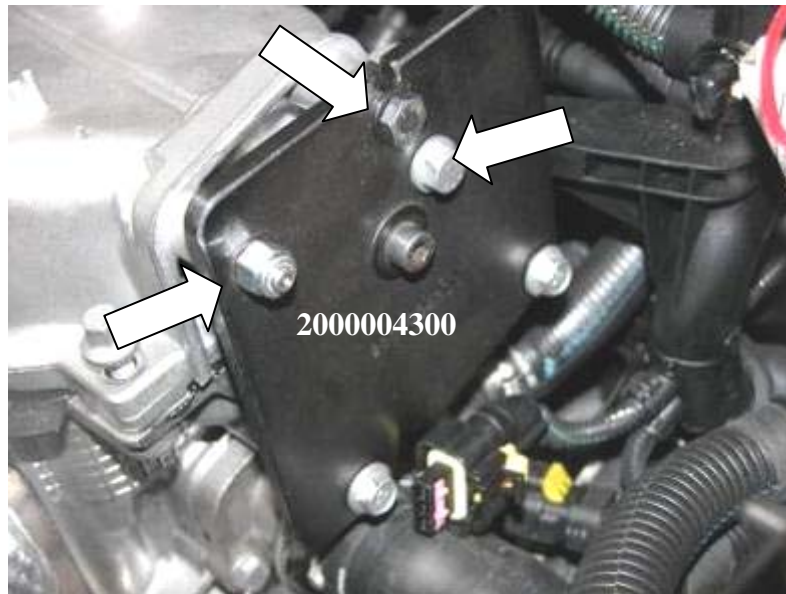


- Loosen the bolts securing the cam cover to the cylinder head and the bolts securing the wiring bracket (arrowed).



- Screw in the bolts/nut (arrowed) securing part 2000004300 to the cam cover slightly and then tighten to bring the cam cover into contact with the tool surface.

NOTE: screw in slightly to prevent the slip between the cam cover and cylinder head from damaging the gasket.



- Tighten the cam cover and wiring bracket bolts to a torque of 9 Nm.

- Tighten the timing belt cover bolts to a torque of 9 Nm.

- Remove tool part. 2000004300.

- Fit the ignition coil and tighten the bolts to a torque of 9 Nm.

Fit the timing sensor and tighten the bolt to a torque of 9Nm.

- Fit all parts removed previously, reversing removal instructions.

- Unscrew the bolts securing the ignition coil and set aside as far as the spark plug wires and coil wiring permit.

IDENTIFICATION OF OPERATION:

White paint spot on the cam cover in the unused boss (arrowed).



PARTS LOCATION

NONE

OPERATION TIME

Operation R	labour hours = 0.25 (check)
Operation S	labour hours = 0.60 (check + check with tool)
Operation T	labour hours = 0.85 (check + check with tool + operation)

MANAGEMENT OF PARTS REMOVED DURING SERVICE

NONE

Annex 2

CAMPAIGN 5264 – SERVICE CAMPAIGN

Models FIAT Linea, Idea, 500, Palio, Albea, GPunto with Fire 1.4 8V – 1.2 8V EVO engines

- timing sensor

SUMMARY OF OPERATING PROCEDURE

a) Overall vehicle pool affected by the operation

The campaign affects all vehicles with chassis numbers entered in SIGI upon campaign activation

b) Identification of affected vehicles

- vehicles allocated to you – refer to the file containing chassis numbers subject to the campaign present in your PC

- vehicles in transit

- Before carrying out the operation check :

- 1) with a SIGI inquiry to see if the chassis is subject to the campaign;
- 2) for the presence of any identification marks to confirm that the campaign has already been carried out

c) Parts required

NONE

d) Financial process

The costs to be sustained for:

- labour, according to the time shown in the attached procedure

material to be supplied to you by the Volvera Parts department (payment will be made according to the repayment terms specified at the time of the operation)

- miscellaneous expenses (phone, post, etc.) to be charged to campaign

5264 by making a normal Claim and entering the costs under the following Expense Items :

A 01 = Labour and parts

A 10 = Miscellaneous expenses