# www.306oc.co.uk

www.306oc.co.uk

Telephone: www.306oc.co.uk Fax: www.306oc.co.uk

# **Ignition system**

# **High-tension spark**

## Checking - Fig. 12

NOTE: Disconnect injector multi-plugs before cranking tests, to avoid damage to catalytic converter(s).

- Ensure ignition switched OFF.
- Remove upper engine cover.
- Disconnect ignition coil from one spark plug.
- Connect test spark plug to ignition coil.
- Using insulated pliers, hold test spark plug 6 mm from suitable earth.
- Briefly crank engine.
- Check for strong blue sparks.
- Repeat test for each ignition coil.
- If no spark is visible: Carry out high-tension circuit component checks. Refer to General Test Procedures.

## Ignition timing & firing order

#### Checking and adjustment - Fig. 13

Technical Data		
Normal ignition timing	Not specified	
Firing order	1-3-4-2	

- Ignition timing electronically controlled.
- No adjustment possible.

## **Ignition coils**

#### Checking supply voltage - Fig. 14 & Fig. 15

Technical Data		
Terminals	Voltage	
2 & earth	Battery voltage	

- Ensure ignition switched OFF.
- Disconnect relay module multi-plug.
- Bridge relay module harness multi-plug terminals 8 and 13 with a switched lead Fig. 14.
- Disconnect ignition coil multi-plug.

Manufacturer: Peugeot	Model: 306 (97-03) 2,0 S16/GTi-6	
Engine code: XU10J4RS/L3 (RFS)	Output: 120 (167) 6500	
Tuned for: R-Cat	Vear: 1997-01	V6.410-ENG

- Operate switch.
- Check voltage between harness multi-plug terminal and earth Fig. 15.
- Repeat test for each ignition coil.
- If voltage not as specified: Check wiring.

#### Checking primary resistance - Fig. 16

Technical Data	
Resistance	0,45-0,65 Ω

- Ensure ignition switched OFF.
- Disconnect ignition coil multi-plug.
- Check resistance between ignition coil terminals.

### Checking secondary resistance

#### NOTE: Secondary resistance cannot be checked.

## Ignition amplifier

NOTE: Incorporated in engine control module (ECM).

#### Checking signal - Fig. 17

Technical Data		
Terminals	LED	
1 & 2	Flashing	

#### NOTE: Relay module must be fitted and working correctly in order to check signal. NOTE: Disconnect injector multi-plugs before cranking tests, to prevent engine from starting.

- Ensure ignition switched OFF.
- Do not disconnect multi-plug. Access ignition coil multi-plug terminals.
- Connect LED test lamp between multi-plug terminals.
- Briefly crank engine.
- Check that LED flashes.
- Repeat test for each ignition coil.
- If LED does not flash: Check wiring and crankshaft position (CKP) sensor.



Model: 306 (97-03) 2,0 S16/GTi-6 Output: 120 (167) 6500 Year: 1997-01 © Autodata Limited 2007 30/11/2015 V6.410-ENGQ656277 /Autodata