

IDENTIFICATION OF VEHICLES					
Factory code.					
Structure					
Example : JM HFXC			The factory code is composed of 6 figures or letters. J = Vehicle family. HFX = Engine. M = Body shape. C = Version.		
Family			Body shape		
Ref.	Family		Ref.	Body shape	
J	CITROËN C2		M	3-door saloon (4-seater)	
Engine			Version (Gearbox and emission standard)		
Ref.	Capacity	Engine type	Ref.	Gearbox	Emissions
HFX	1124	TU1JP/EURO/3/IF EURO /4	B	Manual 5-speed gearbox	EURO/3
KFV	1360	TU3JP/ EURO /3/IF EURO /4	C		IF EURO/4
NFU	1587	TU5JP4/IF EURO /4			
8HX	1398	DV4TD EURO/3 EURO/4			

OPERATIONS TO BE CARRIED OUT AFTER A REPAIR

Sun roof.

The anti-pinch function has to be re-initialised.
Place the sun roof switch in the maximum tilt position.
Keep the sun roof switch pressed until the sun roof ceases its movement.
Release the sun roof switch within 5 seconds.
Keep the sun roof switch pressed until the end of the sun roof opening sequence.

Multifunction screen.

It is necessary to adjust the date, time and outside temperature.
Adjust the display language of the multifunction screen if necessary.
NOTE : The default display language of the multifunction screen is French.

Navigation.

Warning, the vehicle has to be in the open air (on switching on the ignition, the ECU searches for satellites).
Vehicle location is only effective after some ten minutes.
Reprogramme the customer parameters.

Radio.

Reprogramme the radio stations.

Radiotelephone RT3.

Reprogramme the radio stations.

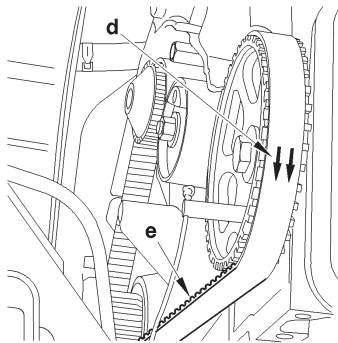
CAPACITIES (in litres)				
	C2			
	Petrol			Diesel
	1.1i	1.4i	1.6i 16V	1.4 HDi
Engine type	HFX	KFV	NFU	8HX
Drain by gravity : engine with filter change	3		3.25	3.75
Between Min. and Max.	1.5			1.8 → RPO 9844) 1.5 (RPO 9845 →)
MA5 5-speed gearbox	2			
MA5 piloted 5-speed gearbox	2 ± 0.15			
Braking circuit	0.7 Litre version with front calipers Ø 48 / rear drums 0.8 Litre version with front calipers Ø 54 / rear discs			
Cooling system	7			5.6
Fuel tank capacity	40			45
<p>ESSENTIAL : <u>Systematically check the oil level using the oil dipstick.</u></p>				

LUBRICANTS – TOTAL recommended oils				
		TOTAL QUARTZ		TOTAL QUARTZ DIESEL
		Blended oils for all engines	Oils specifically for petrol and dual-fuel petrol / LPG engines	Oils specifically for diesel engines
Saudi Arabia	MIDDLE EAST	9000 5W-40	7000 15W-50	7000 10W-50
Bahrain				
Dubai				
United Arab Emirates				
Iran				
Israel				
Jordan				
Kuwait				
Lebanon				
Oman				
Qatar				
Yemen				

SPECIAL FEATURES : TIGHTENING TORQUES (m.daN)	
	Crankshaft mobile
Bearing cap fixing screws	
Pre-tightening	1 ± 0.2
Slackening	180°
Tightening	3 ± 0.3
Angular tightening	140°
Con rod screws	
Tightening	1 ± 0.1
Angular tightening	100° ± 5°
Accessories drive pulley	
Pre-tightening	3 ± 0.3
Angular tightening	180° ± 5°
	Cylinder block
Sump	1.3 ± 0.1
Timing belt guide roller	2.3 ± 0.2
Timing belt tensioner roller	3.7 ± 0.3

CHECKING AND SETTING THE VALVE TIMING

Engines : KFX - KFV - NFU



B1EP18RC

Setting the timing (continued)**HFX - KFV engines****Refitting.****NOTE** : Check that the pegs [1] and [2] are in place.**WARNING**: Respect the direction of fitting of the timing belt, the arrows «d» indicate the direction of rotation of the crankshaft.

Refit the timing belt.

Position the timing belt, belt «e» well tensioned, in the following order:

Crankshaft pinion, hold the belt using tool [5].

- Camshaft pulley.
- Coolant pump pulley.
- Tensioner roller.

Remove the tools [1], [2].

NFU engine.

Fit the timing belt in position in the following order:

- Inlet camshaft pulley.
- Exhaust camshaft pulley.
- Guide roller.
- Crankshaft pulley.

Position tool [5].

- Coolant pump pulley.
- Dynamic tensioner roller.

Remove the tools [1], [3] and [5].

CHECKING AND SETTING THE VALVE TIMING

Engine : 8HY

Adjusting the timing belt tension (continued).

IMPERATIVE : Never rotate the engine backwards.

WARNING : Do not touch or damage the track of the target of the engine speed sensor (14).

Peg the crankshaft, using tool [3].

Check the position of the tensioner roller (the alignment of the marks «f» and «g» should be correct).
If this is not the case, repeat the operation to tension the belt.

Peg the camshaft pulley, using tool [2].

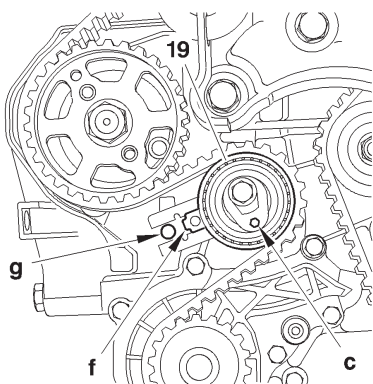
IMPERATIVE : Should it be impossible to peg the camshaft, check that the offset between the camshaft hole and the pegging hole is not more than 1 mm. If the offset is too great, repeat the operation.

Remove the pegs [2] and [3].

Refit tool [1] at «a».

Remove the screw (8).

Complete the refitting.



B1EP18XC

SAFETY REQUIREMENTS : HDi DIRECT INJECTION SYSTEM

Engine : 8HX

CLEANLINESS REQUIREMENTS.

Preliminary operations

IMPERATIVE : The technician should wear clean overalls.

Before working on the injection system, it may be necessary to clean the apertures of the following sensitive components :
(refer to corresponding procedures).

- Fuel filter.
- High pressure fuel pump.
- Third piston deactivator.
- High pressure regulator.
- High pressure sensor.
- High pressure fuel injection common rail.
- High pressure fuel pipes
- Diesel injector carriers.

IMPERATIVE : After dismantling, immediately block the apertures of the sensitive components with plugs, to avoid the entry of impurities.

Work area.

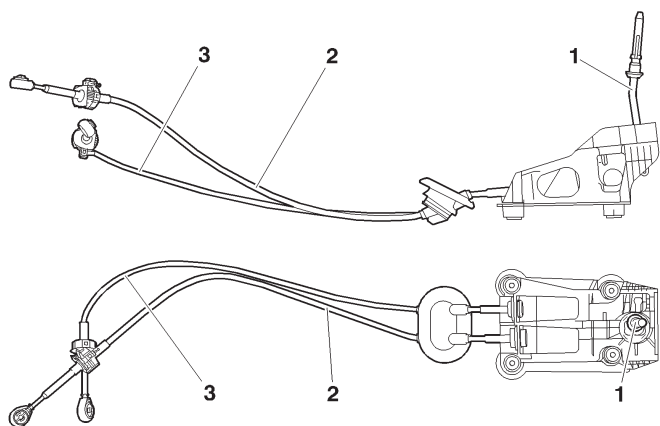
- The work area must be clean and free of clutter.
- Components being worked on must be protected from dust contamination.

FEATURES OF MULTIPOINT INJECTION SYSTEM				
Ignition circuit				
(diagr.)	Component	Supplier	Reference	Observations
	Sparkign plugs	SAGEM		Electrode gap : 0.9 mm Tighten to : 3 m.daN
		BOSCH		
		CHAMPION		
3	Downstream oxygen sensor			4-way blue connector Location : on the exhaust manifold Tighten to : 4.7 ± 0.7 m.daN
4	Upstream oxygen sensor			4-way green connector Location : on the exhaust manifold Tighten to : 4.7 ± 0.7 m.daN
9	Ignition coils	SAGEM		4-way grey connector
		ELECTRIC FIL		

GEARBOX AND TYRE SPECIFICATIONS						
MA5 piloted manual gearbox						
	Petrol					Diesel
	1.4i		1.6i 16v			1.4 Hdi
Engine type	KFV		NFU			8HX
Tyres-Rolling circumference	165/70 R14 1.804 m	185/55 R15 1.781 m	185/55 R14 1.781 m	195/45 R16 1.772 m	185/70 R15 1.804 m	165/70 R14 1.804 m
Gearbox type	MA 5/N		MA 5/S		MA 5/L	MA 5/O
Gearbox plate	20 CF 21		20 CN 48		20 CN 50	20 CN 49
Differential ratio	16x65		16x63		14x60	16X63
Speedo drive ratio	21x18				21xN0	

MA/5 GEARBOX CONTROLS

Engines : HFX - KFV - NFU - 8HX



(1) Gear control lever.

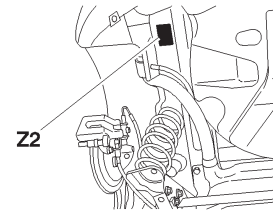
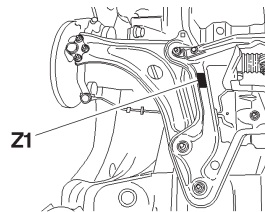
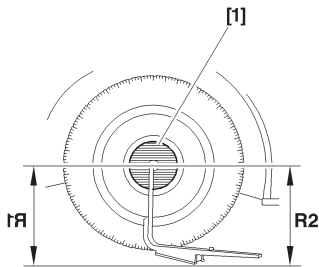
(2) Gear engagement control cable (*)

(3) Gear selection control cable (*)

(*) The two cables cannot be separated.

B2CP3HXD

AXLE GEOMETRY



B3CP07SD

Measuring front height

Measuring rear height

[1] Gauge for measuring the wheel radius, 4 bolts, tool **8006-T**

Z1 = Measuring zone underneath the front subframe.

Z2 = Measuring zone underneath the rear sill.

Measure the radius of the front wheel **R1** - Calculate dimension **H1 = R1 - L1**

Measure the radius of the rear wheel **R2** - Calculate dimension **H2 = R2 + L2**

Value at reference height (+ 6 - 8 mm)	Except CRD (*)		Value at reference height (+ 10 - 6 mm)	Except CRD (*)	
	HFX - KFV - 8HX	NFU		HFX - KFV - 8HX	NFU
	L1 = 142.5 mm	L1 = 152.5 mm		L2 = 52 mm	L2 = 42 mm

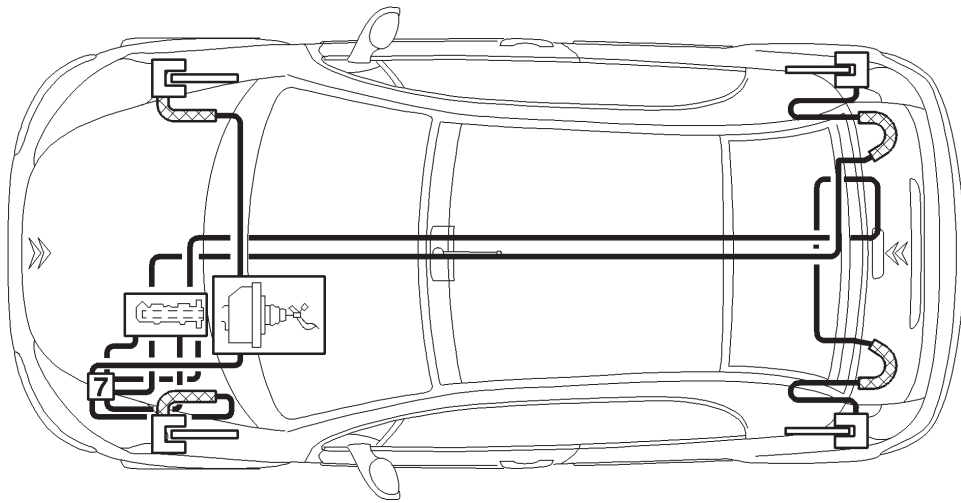
Compress the suspension to obtain the calculated values.

The height difference between the two axle dimensions should be less than **10 mm**.

(*) = **CRD** : Difficult road conditions.

BRAKE SPECIFICATIONS

Braking circuit with ABS - REF (disc brakes at the rear)

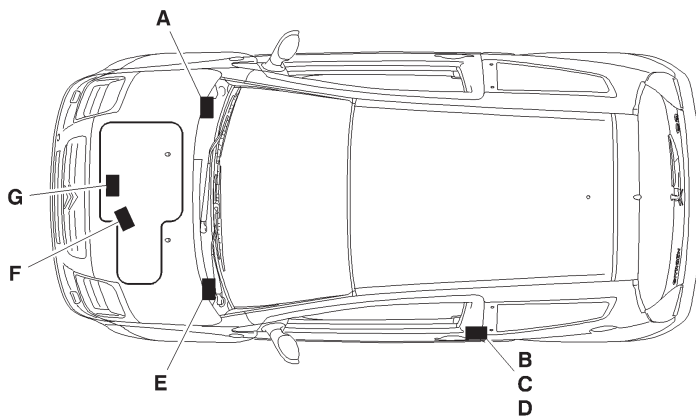


B3FP7BUD

ALTERNATORS													
Gearbox	Climate	NON REFRI						REFRI					
		Without cold pack			With cold pack			Without cold pack			With cold pack		
		Base	RT3 N1 or N2	RT3 N3	Base	RT3 N1 or N2	RT3 N3	Base	RT3 N1 or N2	RT3 N3	Base	RT3 N1 or N2	RT3 N3
1.1i BVM	C	6	6	7	6	7	8			9			
	T						7	7	8				
	F	7	8	7						8			
	GF												
1.4i BVMP	C	7	7	7	7	9	8	9	9			9	
	T								8	8	7		8
	F	8	8	8	8	8							
	GF												
1.6i 16V BVM	C	7	7	7	7	9	8	9	9			9	
	T								8	8	7		8
	F	8	8	8	8	8							
	GF												
1.4 HDi BVM	C	8											
	T	15											
	F												
	GF												
1.4 HDi ECO BVMP	C	8											
	T												
	F	15											
	GF												

Meanings of abbreviations : see page 183

IDENTIFICATION OF VEHICLES



A : Cold stamp
(Cold stamp engraved on the bodywork).

B : Manufacturer's name plate
(On the LH centre pillar)

C : AS/RP No. and RP paint code.
(On the LH centre pillar)

D : Tyre pressures and tyre type.
(On the LH centre pillar)

E : Serial number on bodywork.

F : Gearbox ident. reference – Factory serial no.

G : Engine legislation type – Factory serial no.

E1AP0C3D

GENERAL