OCTOBER 1997

RPO No. 7511 ⟶

REF. 0 No XM 000-00/11

PRESENTATION

● 1998 MODEL YEAR

MAN 158931

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"The technical information appearing in this brochure is subject to updating as the characteristics of each model in the range evolve. Motor vehicle repairers are invited to contact the CITROËN network periodically for further information and to obtain any possible updates".

AUTOMOBILES CITROËN
DIRECTION EXPORT EUROPE
DOCUMENTATION APRÈS VENTE

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PRESENTATION : EUROPE 1998 MODEL YEAR RANGE

1 – INDEX

Ref. letters used in the tables "commercial range of vehicles" :

(a) = automatic gearbox	(l) = "long" gearbox
(m) = manual gearbox	(f) = fiscal rating in "HP" (France)

NOTE : All the vehicles meet the emission standard L3 (CEE 96).

2 – COMMERCIAL RANGE OF CITROEN XM VEHICLES – SALOON

Vehicle		Engine		Gearbox
Official designation	Trim level	Plate. Type	Power kW/hp. (f)	Reference. Type
CITROEN XM 2 l injection (1998 cc) :				
Y4–CZ	SX	RFV XU10J4R	97,4/135 (10)	20TA98 BE3 (m)
Y4–TV				20GZ1E 4HP18 (a)
Y4–TX			97,4/135 (7)	20TA09 BE3 (m) (l)
CITROEN XM 2 l turbo – CT (1998 cc) :				
Y4–GG	SX	RGX XU10J2TE	108/150 (9)	20GM32 ME5T (m)
	EXCLUSIVE			
Y4–TT	SX			20GZ1D 4HP18 (a)
	EXCLUSIVE			
CITROEN XM 6 cylinders (2946 cc) :				
Y4–WG	SX	ES9J4 XFZ	140/194 (15)	20LE3 ML5T (m)
	EXCLUSIVE			
Y4–WH	SX		140/194 (16)	20HZ02 4HP20 (a)
	EXCLUSIVE			
CITROEN XM turbo D12 (2088 cc) :				
Y4–GZ	For conversion into ambulance	P8C XUD11BTE	80/110 (6)	20GM31 ME5T (m)
	SX			
	EXCLUSIVE			
Y4–RN	SX			20GZ5D 4HP18 (a)
	EXCLUSIVE			
CITROEN XM 2,5 l turbo diesel (2446 cc) :				
Y4–NZ	SX	THY DK5ATE	94,5/130 (7)	20KM02(*) MG5TB (m)
	EXCLUSIVE			

(*) replaced by 20KM50 gearbox during the model year.

3 – COMMERCIAL RANGE OF CITROEN XM VEHICLES – ESTATE

Vehicle		Engine		Gearbox
Official designation	Trim level	Plate. Type	Power kW/hp. (f)	Reference. Type

CITROEN XM 2 l injection (1998 cc) :

Y4–GB	SX	RFV XU10J4R	97,4/135 (10)	20GM36 ME5T (m)
Y4–TU				20GZ1E 4HP18 (a)

CITROEN XM 2 l turbo – injection (1998 cc) :

Y4–GM	Varebiler	RGX XU10J2TE	108/150	20GM33 ME5T (m)
	SX			
Y4–TS	Varebiler			20GZ1D 4HP18 (a)
	SX			

CITROEN XM 6 cylinders (2946 cc) :

Y4–WJ	SX	ES9J4 XFZ	140/194 (15)	20LE33 ML5T (m)
Y4–TN			140/194 (16)	20HZ02 4HP20 (a)

CITROEN XM turbo D12 (2088 cc) :

Y4–MZ	Varebiler	P8C XUD11BTE	80/110 (6)	20GM31 ME5T (m)
	SX			
Y4–CW	Varebiler			20GZ5D 4HP18 (a)
	SX			

CITROEN XM 2,5 l turbo diesel (2446 cc) :

Y4–RM	Varebiler	THY DK5ATE	94,5/130 (7)	20KM02(*) MG5TB (m)
	SX			

(*) replaced by 20KM50 gearbox during the model year.

MECHANICAL DEVELOPMENTS : 98 MODEL YEAR RANGE

1 – ENGINE TYPES

The ES9J4 (XFZ) engine replaces the ZPJ (UFZ, UFY) engine.

For the engine V6, MG5T gearbox is replaced by the ML5T gearbox.

From 01/97, end of production of the ZPJ4 V6.24V engine.

Petrol and diesel engines which are marketed in EEC countries are manufactured in line with emission standard L3 (EURO 96).

Engine characteristics (European standards L3) :
- specific engine ECU
- specific catalytic converter (impregnation in precious metals increased)

2 – SPECIAL FEATURES OF THE XM V6

Vehicle application : XM saloon and estate.

The engine is manufactured from light alloy, mounted transversely and tilted at 0°.

Gearboxes :
- manual gearbox : type ML5T gearbox (that replaces MG5T)
- new automatic gearbox with 4 forward gears and electronic management of gear selection : type ZF 4HP20

Vehicle particular features :
- engine mounting (specific)
- 6+2–piston high pressure pump (specific)
- power assisted steering (all vehicle types; all destinations)
- power steering hydraulic circuit (with pressure regulator)
- SC/MAC : Anti–sink suspension system
- new brake pads with increased surface area

NOTE : The SC/MAC system makes it possible to limit the amount the vehicle sinks when stationary, engine off.

3 – ECUS

3.1 – Engine management E.C.U.

4 cylinders (1998 cc) :

Engine type	Gearbox	Injection system		
		Supplier. Type	PSA reference. Reference of the Manufacturer	Software version. Index
RFV XU10J4R	Manual. Automatic	BOSCH MP 5.2 (*)	96 309 013 80 0261204694	1037357305 26FM0000
RGX XU10J2TE	Manual. Automatic	BOSCH MP 3.2 (*)	96 304 296 80 0261200808	1037357230 26FM0349

6 cylinders (2946 cc) :

Engine type	Gearbox	Injection system		
		Supplier. Type	PSA reference. Reference of the Manufacturer	Software version. Index
UFZ ES9J4	Manual	BOSCH MP 7.0 (*)	96 255 524 80 2412900159A	1037358699 26FM0376
	Automatic		9625552580 2412900159E	1037355192 26FD0280

NOTE : (*) downloading an update to the ECU.

4 cylinder Turbo Diesel engine :

Engine type	Gearbox	Injection system		
		Supplier. Type	PSA reference. Reference of the Manufacturer	Software version. Index
P8C XUD11BTE	Manual. Automatic	LUCAS EPIC	96 305 092 80 R 040 100 16 C	41502211 0B
	Manual		96 314 459 80 R 040 100 16 C	41501411 0C
THY DK5ATE	Manual	BOSCH MSA 11 7.6	9628607180 00281001336	L3 16

3.2 – Automatic gearbox E.C.U. ZF 4HP20

Supplier : BOSCH (*).
Type : GS10.11.0.
PSA reference : 96 315 901 80.
Software version : PS028C4E.
(*) downloading an update to the ECU.

4 – BRAKES

Vehicle application : XM V6, XM 2.5TD.

Applicable since R.P. number : 7483.

New components :
- front brake caliper (Saloon and Estate)
- brake pads (Saloon and Estate)
- front brake discs
- rear brake pads with increased surface area
- rear brake discs (Saloons only)

4.1 – Front brakes

Single piston and floating caliper (Saloon and Estate) :
- piston : Ø = 60 mm
- reference : BENDIX 5Z0

Parking brake self–adjusting mechanism.

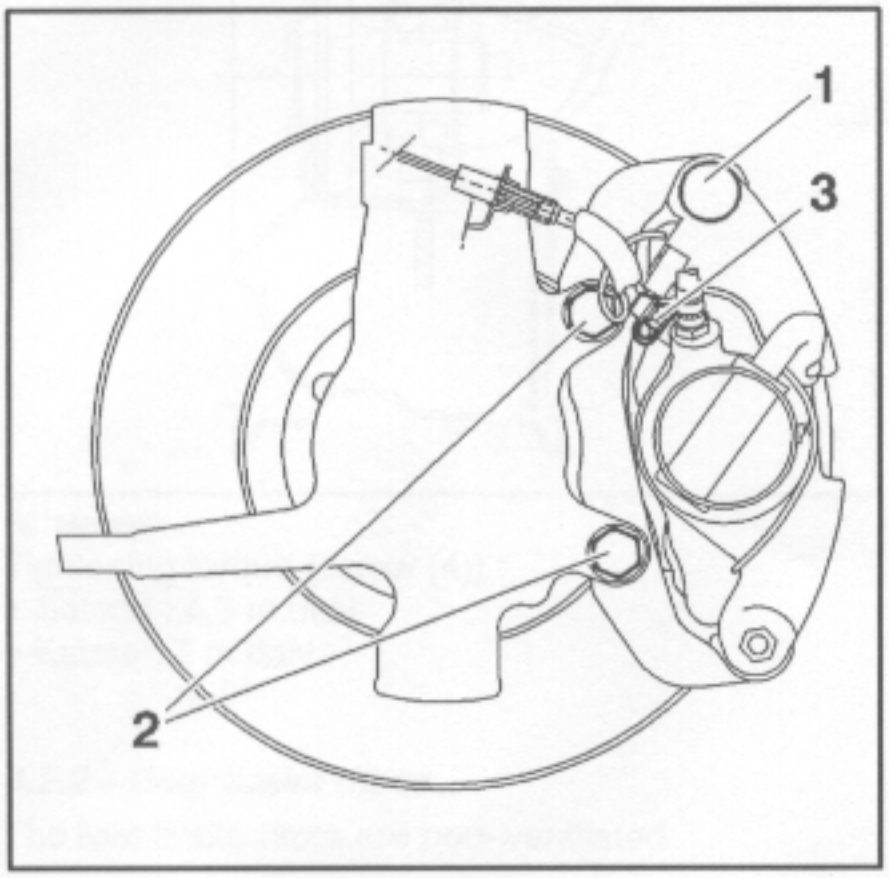


Fig : B3FP107C

Tightening torques :
- (1) guide pin : 2,5 m.daN
- (2) caliper bolt : 10,5 m.daN
- (3) bleed screw : 0,7 m.daN
- floating brake caliper lower bolt : 3 m.daN

4.1.1 – Front brake discs

Front discs with ventilated discs.

Vehicle		Saloon	Estate
Diameter (mm)		288	
Thickness (mm)	Min.	26	
	Max.	28	
Maximum run out (mm)		0,05	
Max. thickness variation on one circumference (mm)		0,01	

4.1.2 – Front brake pads

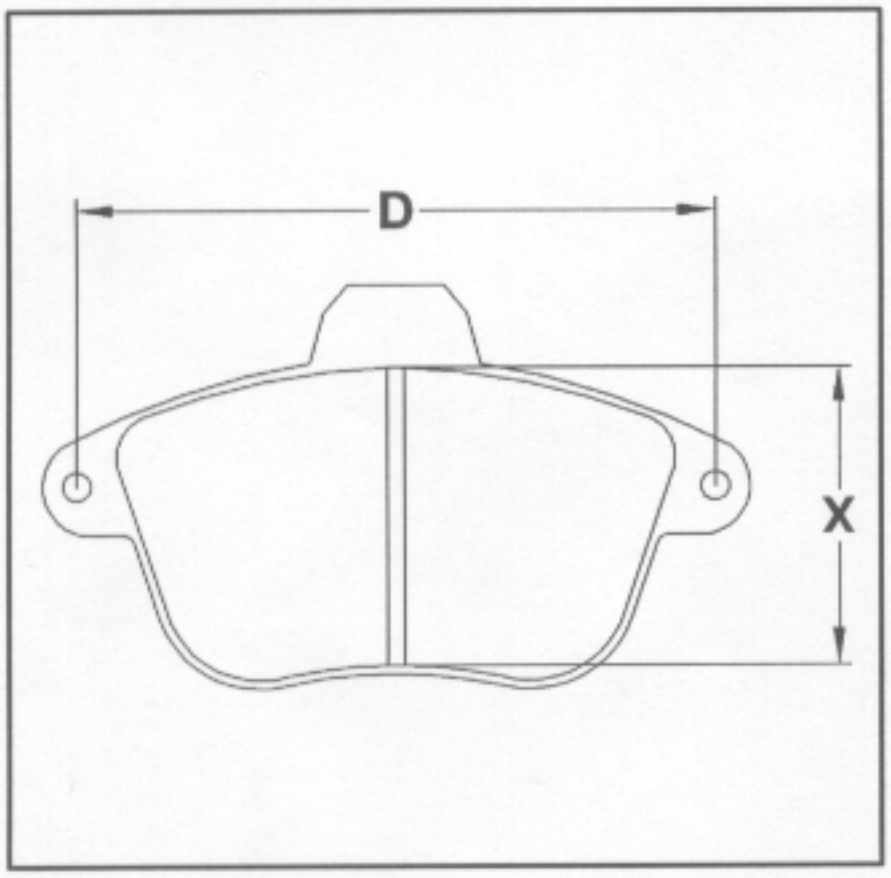


Fig : B3FP108C

Brake pads :

Vehicle		Saloon	Estate
Make		ABEX	
Material		FERF 949	
Width D (mm)		158	
Height X (mm)		59,5	
Thickness (mm)	Min.	2	
	Max.	11,8	
Surface area of each pad		61,5 cm^2	

Asbestos free brake linings with wire for wear warning lamp in instrument panel.

4.2 – Rear brakes

4.2.1 – Rear brake calipers

CITROEN fixed brake calipers fitted with 2 pistons.

Piston dia. (mm) :
- Saloon : 33
- Estate : 40

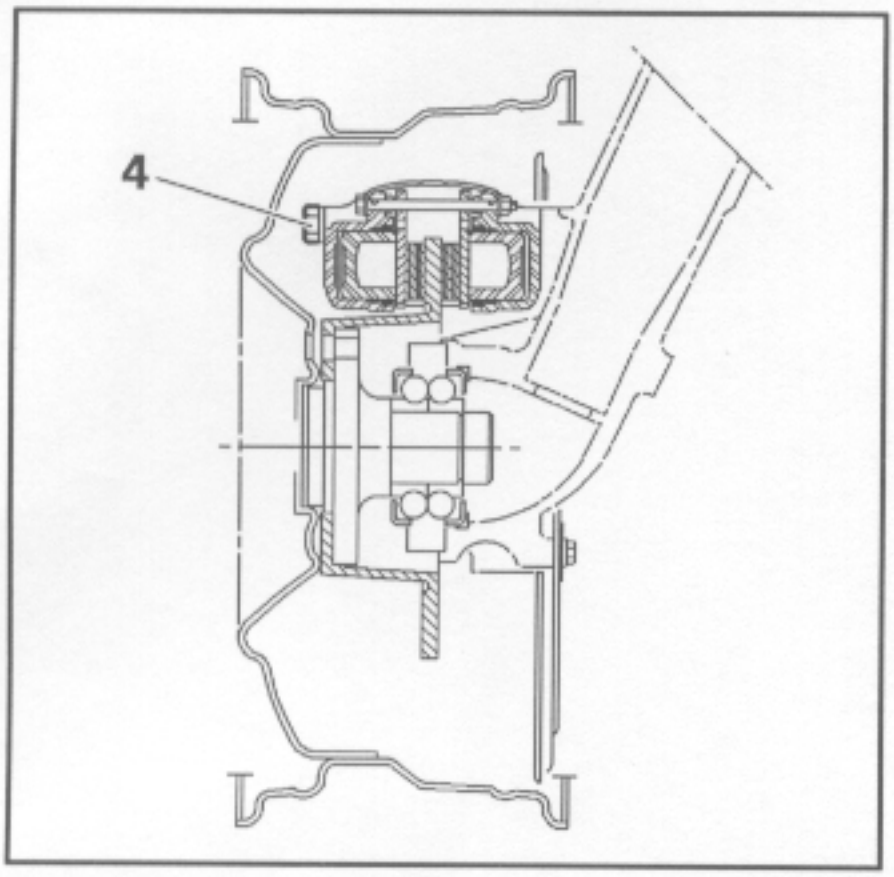


Fig : B3FP109C

Tightening torque (screw (4)) :
- Saloon : 4,5 m.daN
- Estate : 7 m.daN

4.2.2 – Rear brake discs

The rear brake discs are non–ventilated.

Vehicle		Saloon	Estate
Diameter (mm)		232	251
Thickness (mm)	Min.	7	10
	Max.	9	12
Maximum run out (mm)		0,05	
Max. thickness variation on one circumference (mm)		0,01	

4.2.3 – Rear brake pads

Brake pads :

Vehicle		Saloon	Estate
Make		ABEX	
Material		FERF 949 asbestos free	
Thickness (mm)	Min.	2	
	Max.	11,4	
Surface area of each pad		19 cm²	36,25 cm²

5 – PRESSURE REGULATOR

Vehicle application : all types XM.

Progressively applied from RPO No 7483.

From the 98 Model Year onwards : use of the new CITROEN hydraulic union for the supply to the pressure regulator.

Modified parts :

- pressure regulator : yellow paint mark
- pipe connecting the HP pump and the pressure regulator
- seal

WARNING : Mixing old and new parts is prohibited.

IMPERATIVE : Each time work is carried out, the seal must be replaced.

MODIFICATIONS TO THE ELECTRICAL SYSTEM : 1998 MODEL YEAR RANGE

The electrical equipment evolves with the following modifications :

- third stop lamp (Saloon and Estate)
- removal of the inertia switch on diesel models
- side airbag (depending on the version)
- seat belt buckle with "seat belt unfastened" detector (warning lamp in the display panel)
- new gearbox ECU protection fuse (*)
- new electrical harness (*)
- new instrument panel (*)
- dashboard and door wiring harnesses modified following deletion of the deadlocking option (except Great Britain)
- tailgate harness adapted for a third stoplamp
- programme selector for automatic gearbox (*)

NOTE : (*). Specific to the ZF 4HP20 gearbox.

BODYWORK IMPROVEMENTS : 98 MODEL YEAR RANGE

1 – SUMMARY OF THE EVOLUTIONS

Third stop lamp.

Front grille.

Side airbag.

2 – FRONT GRILLE

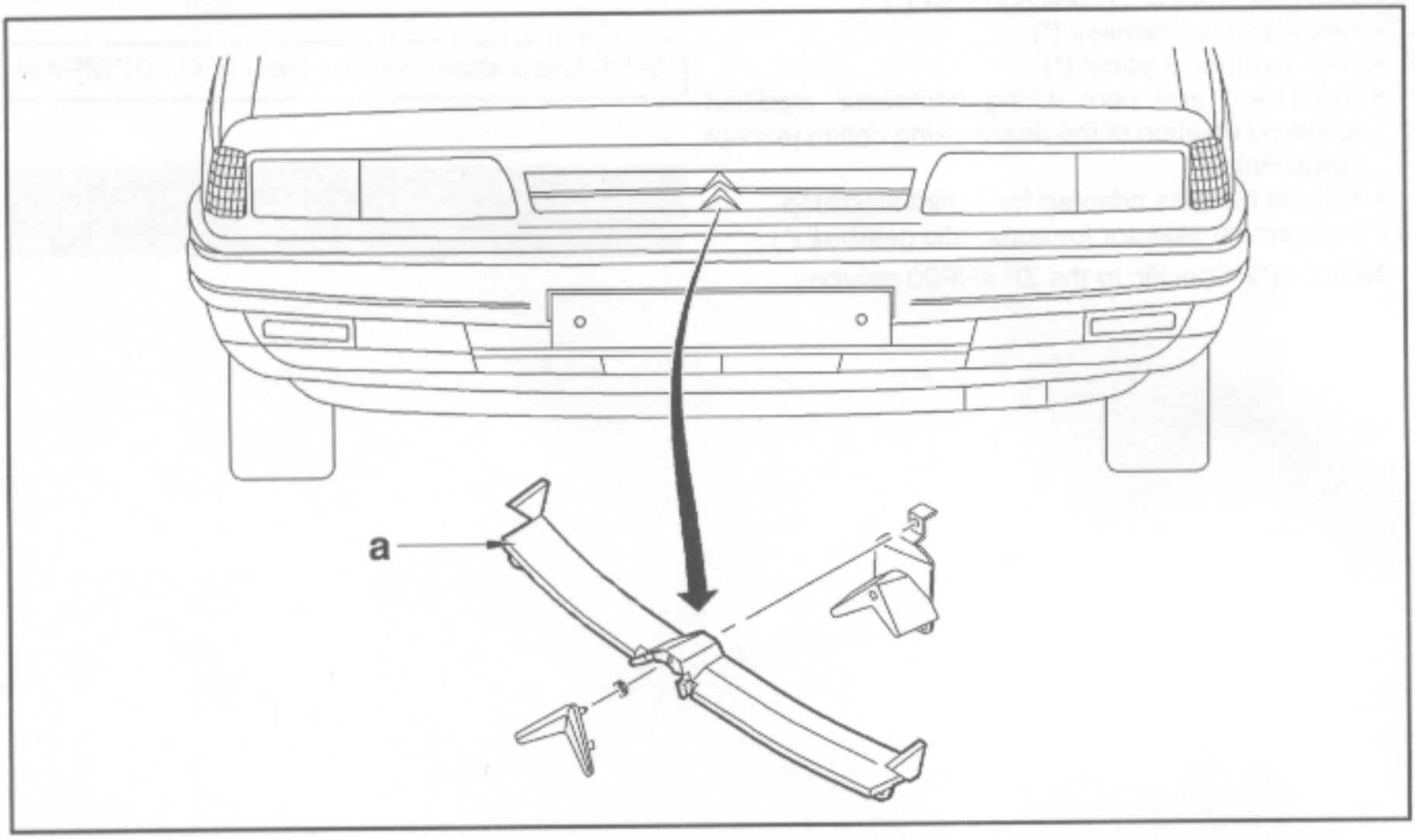


Fig : C4AP10QD

"a" : new central grille bar.

The new central grille bar is equipped with new chevrons.

The new parts can fitted in place of the early parts.

NOTE : The grille remains unchanged.

3 – SIDE AIRBAGS

3.1 – Preamble

Applicable : 05/97.

Vehicle application : CITROEN XM.

3.2 – Presentation



Fig : C5GP04GC

The side airbags are complementary to the driver and passenger airbags and the pyrotechnic seat belts.

The side airbag does not act as a protective shield but pushes the occupant away imparting an initial lateral speed, significantly reducing the risk of injury.

Airbag capacity : 12 litres.

WARNING : Wearing safety belts remains mandatory.

WARNING : The post–fitting of side airbags is prohibited.

IMPERATIVE : Never fit covers to a seat equipped with a side airbag.

Equipment complementary to the side airbags system :

- a device added to the doors diffuses the residual energy of the impact on the pelvis of the passenger
- seat belt buckle with "seat belt unfastened" detector (warning lamp in the display panel)

3.3 – Identification of the vehicles



Fig : C5JP06AC

(1) diagnostic warning lamp (in instrument panel).

(2) sticker.

Vehicles fitted with side airbags can be identified by the following :

- a specific diagnostic warning lamp in the instrument panel
- a sticker located on the trim moulding of both front seats

3.4 – Protection zones

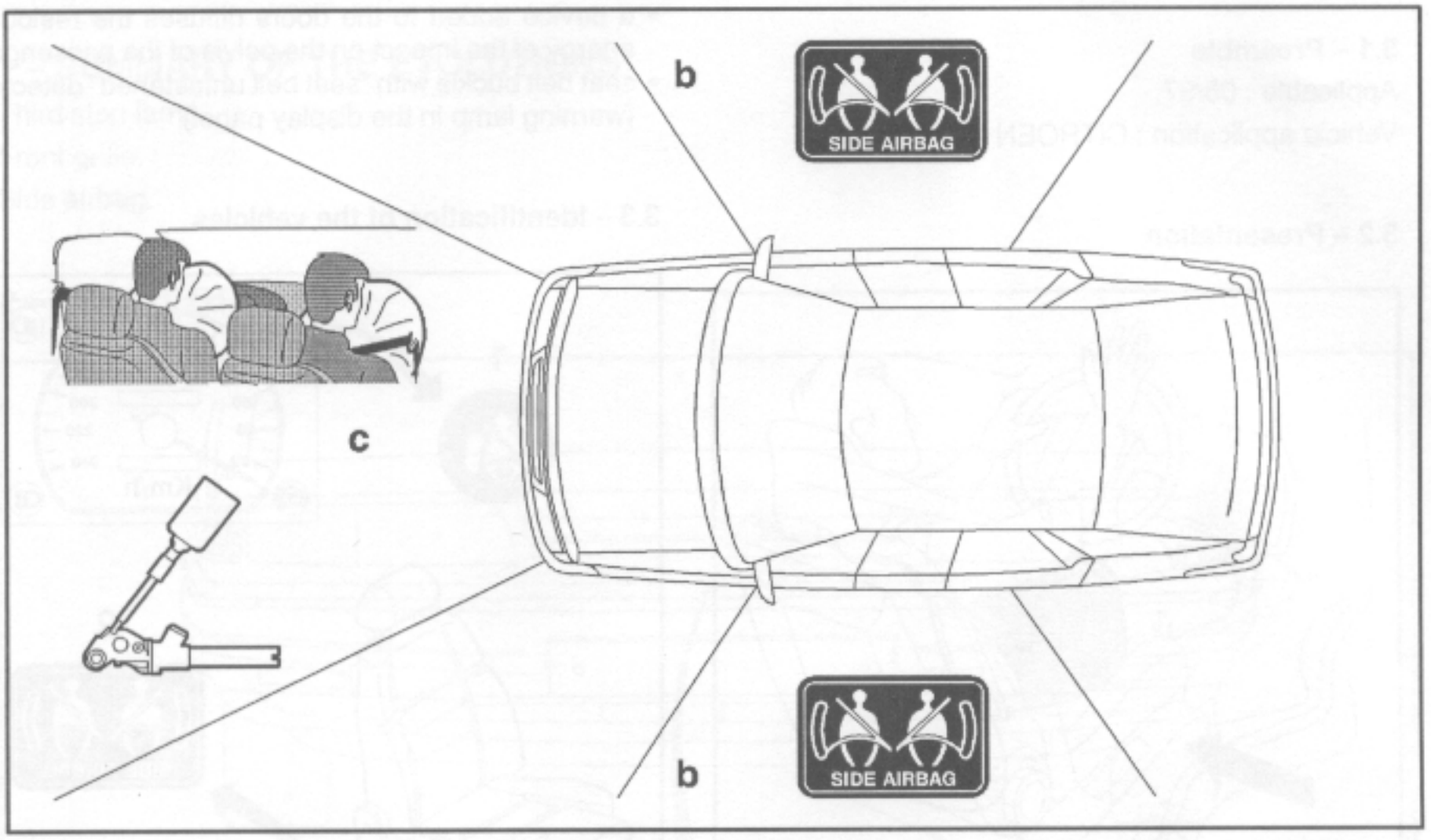


Fig : C5JP06CD

"b" : area of impact in which the side airbag may be deployed.

"c" : area of impact in which the pyrotechnic seat belts and driver's and passenger's airbags may be deployed.

The side airbags will only be deployed in the event of a side impact.

3.5 – Presentation of the system

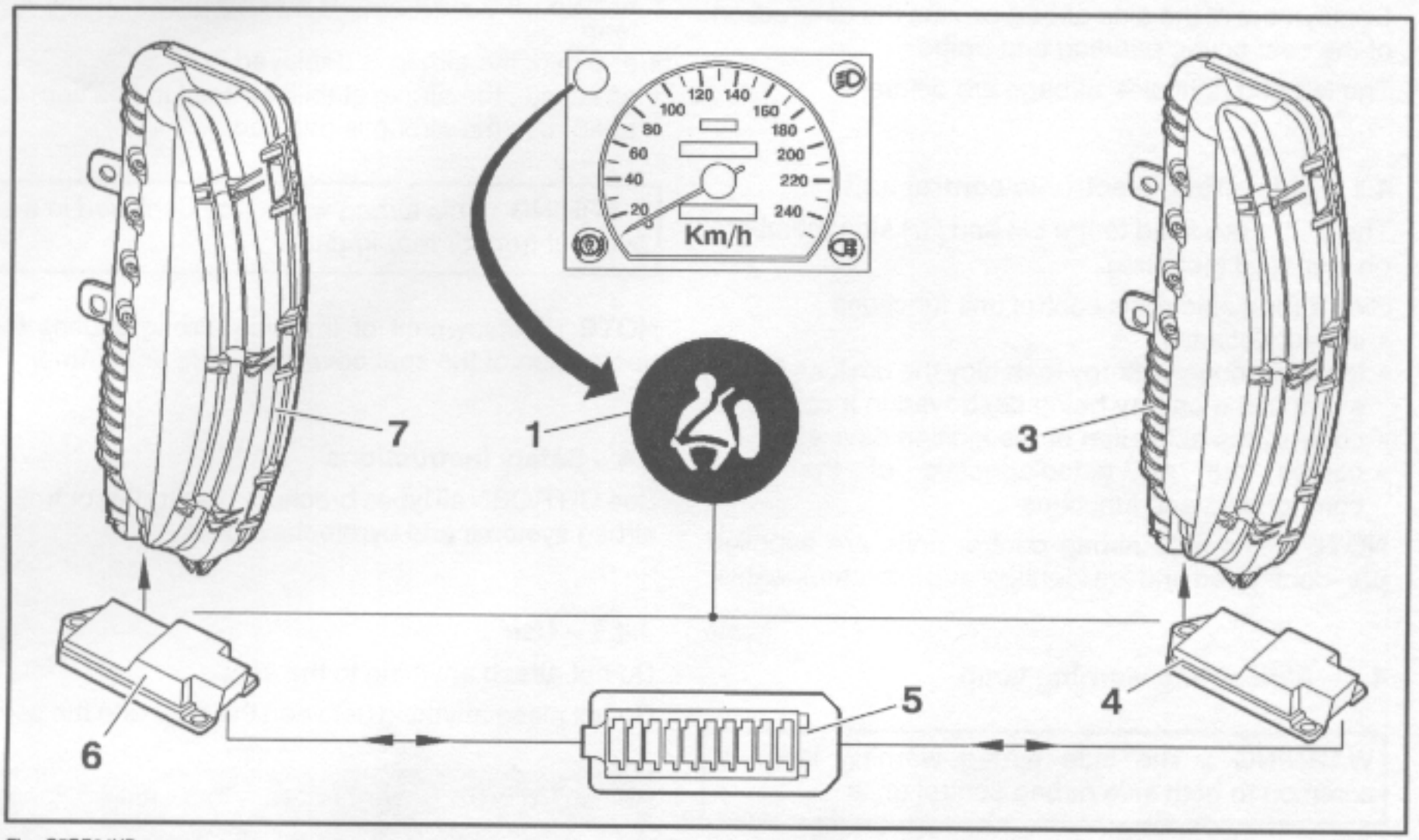


Fig : C5GP04HD

System composition :

- (1) diagnostic warning lamp (in instrument panel)
- (3) right side airbag
- (4) side airbag electronic control unit (R.H. side)
- (5) central diagnostic socket
- (6) side airbag electronic control unit (L.H. side)
- (7) left side airbag
- specific wiring harnesses with red connector beneath the seat (connector located to the side of the centre console)

The diagnosis of the function is effected via the "ELIT" test unit or the "SOURIAU 26A" station.

NOTE : The airbag diagnostic warning lamp is retained (diagnostic check of the driver's airbag, passenger's airbag and pyrotechnic seat belts).

4 – AIRBAG

Deployment of the side airbag causes the destruction of the seat cover, padding and frame.

The left and right side airbags are different.

4.1 – Side airbag electronic control unit

The ECUs are fixed to the LH and RH side members on a special mounting.

Side airbag electronic control unit functions :
- impact detection
- to store enough energy to deploy the devices (in the event of the battery being destroyed in a collision)
- controls the activation of the ignition devices
- carries out an autodiagnostic of the main components and functions

NOTE : The side airbag control units are supplied pre–configured and are identical and interchangeable.

4.2 – Side airbag warning lamp

WARNING : The side airbag warning lamp is common to both side airbag control units.

4.2.1 – Normal operation of the warning lamp

The warning lamp illuminates for 6 seconds on switching on ignition.

4.2.2 – Abnormal functioning

Various possibilities :
- the warning lamp doesn't light up when ignition is switched on
- the control lamp doesn't go out after delay time of 6 seconds after ignition has been switched on
- the warning lamp blinks during 5 minutes, then remains lit up. The control lamp remains lit up when the ignition is next switched on
- the warning lamp blinks during 5 minutes, then remains lit up. The warning lamp goes off after time delay of 6 seconds when the ignition is next switched on

4.3 – Operating principle of the device

See CITROEN all types brochure : side airbags.

In the event of a major side impact, the electronic control unit triggers the deployment of the side airbag on the side of the impact, which thus acts as a buffer between the occupant and the vehicle side.

Combustion of the propergol generates a gas under pressure within a few milliseconds, which consequently tears the cover and inflates the airbag.

Operation stages :
- at 4 ms : the cover opens and the seat trim starts to tear
- at 6 ms : the airbag is deployed
- at 10 ms : the airbag stabilises itself in position
- at 60 ms : the airbag is deflated

WARNING : This airbag will not be deployed in the event of front or rear impacts.

NOTE : Deployment of the side airbag causes the destruction of the seat cover, padding and frame.

4.4 – Safety instructions

See CITROEN all types brochure : centrally controlled airbag systems and pyrotechnic belts.

4.4.1 – Use

Do not attach anything to the seat.

Do not place anything between the door and the seat.

IMPERATIVE : Never fit covers to a seat equipped with a side airbag.

4.4.2 – Repairs

Before taking any action, the following operations should be carried out :
- switch on ignition
- check the correct operation of the side airbag warning lamp in the instrument panel
- take out the ignition key
- disconnect the battery negative terminal
- wait for at least 2 minutes (wait 10 minutes in case of abnormal operation of the "airbag" warning lamp)

IMPERATIVE : Do not handle an electrically supplied ECU.

IMPERATIVE : The ignition elements are explosives, never try to open an airbag or ignition device with a tool, or by heating it. Never connect wiring harnesses to airbag cushion, other than the ones provided by the manufacturer.

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