**Citroen Cx Repair Manual 1988** 

Full download: http://www.com/download/citroen-cx-repan-manuar-1988/





**REPAIR MANUAL MAN 058531** 

CUSTOMER SERVICES AFTER-SALES TECHNICAL DEPARTMENT SEPTEMBER 1988

CX VEHICLES

**MECHANICAL COMPONENTS 1** 



Automobiles Citroën. S.A. au capital de 800.000.000 F R.C.S. NANTERRE B 642 050 199. SIRET 642 050 199 00644 APE 3111. Télégramme et Télex : CITR 614830 F ADRESSE POSTALE : 92208 NEUILLY-SUR- SEINE CEDEX FRANCE

This is the cut pages sample. Download all 646 page(s) at: ManualPlace.com

# USE OF THE MANUAL

## PRESENTATION

The **Repair Manual** comes in a binder with a "Multo" type mechanism to facilitate the filing of additive sheets or the removal of a part for operation in the workshop.

The **MECHANICAL COMPONENTS, PART 1 VOLUME (8531)** covers operations on the MECHANICAL COMPONENTS and the BODYWORK which may be carried out by a general workshop.

It is divided into 15 chapters separated by vinyl tab inserts numbered 0 to 15.

- () : General
- (1) : Engine
- 2 : Fuel system-Carburettor
- 3 : Ignition system
- (4) : Clutch
- (5) : Gearbox-Drive shafts
- 6 : Source and reserve of pressure
- $(\mathcal{I})$  : Front axle

- (8) : Rear axle
- (9) : Suspension wheels tyres
- 10 : Steering
- (1) : Braking system
- (12) : Electrical equipment and radio
- (13) : Heater, ventilation and air-conditioning
- (14) (15) : Bodywork

## **COMPOSITION OF A CHAPTER**

Each chapter includes:

- the list of operations in it,
- the operations in numerical order.

#### **OPERATIONS**

The operation references are made up as follow:	MA	100	-	<u>00</u>	1	1	_a
	a)	b)		C)		d)	e)

- a) vehicle code letters: MA
- b) three figure number identifying the assembly or the assembly part.
- c) figure indicating the type of operation:
  - the figures 000 indicate the vehicle specification
  - the figures **00** indicate the assembly specification
  - the figures 0 indicate checks and adjustments
  - the figures 1 indicate removals and refittings
  - the figures **2** indicate dismantling and re-assembly
  - the figures **3** indicate reconditioning
- d) figure /1,.../2.../... standing for a variant,
- e) letter: a, b, standing for an evolution.

The various operations are presented:

1° either through photos, drawings and texts,

2° or through photos, drawings and symbols.

A GLOSSARY has been placed at the beginning of each volume for this purpose.

In the glossary (the one in the Mechanical Components volume is different from the one in the Bodywork volume), the meaning for each symbol has been translated into **nine languages**.

It consists in a **removable set of "plastic" sheets** bound with one manœuvrable metal ring to facilitate the extraction of one or several pages (and obtain photocopies from them, for instance).

## TOOLS

For each chapter, the photos of the special tools required for proper completion of the work, are given at the end of the list of operations.

The special tool numbers and photos appear in the operation description as the work progresses.

The tools referenced OUT followed by 6 figures and ending in the letter "T" are sold by the Replacement Parts Department to FRANCE and EXPORT networks.

The tools referenced with 4 figures followed by the letter "T" are sold to FRANCE by the Société FENWICK, Département AMA :

24, boulevard Biron, 93404 SAINT-OUEN. Tél. : 42.52.67.00, and to the EXPORT network by CITROËN.

The tools referenced MR must be made up by the repairer himself.

## TIGHTENING TORQUES:

The tightening torques are expressed in metre Decanewton (mdaN), the official torque measuring unit: **0.981 mdaN = 1 mkg** (former measuring unit).

In practice, 1 mdaN = 1 mkg.

#### UPDATING THE MANUAL WITH ADDITIVES:

## Additives should be ordered immediately on receipt of the DOCUMENTATION BULLETIN announcing that they are issued.

The updated sheets must be added to the existing pages in the manual or replace the corresponding ones. They are identified by spots located to the left of the shortened volume number placed at the bottom right hand side of the recto page:

Example : 1 spot • 8531 additive no. 1 ; 2 spots • 8531 additive no. 2, etc.

#### **IMPORTANT NOTE:**

For all technical information, please apply to:

## **CENTRE TECHNIQUE CITROËN**

**Division Après-Vente** Service Technique Chemin Vicinal nº 2 - 78140 VELIZY Tél.: 45.37.30.30.



		LIST OF OPERATIONS APPEARING IN THE O GENERAL INFORMATION	CHAPTER :								VEHICI EN	LE CON	CERNED YPE	1	
	OPERATION		OPER	ATION	20 Petrol	22 Petrol	25 Petrol Injection	25 Prestige	25 Petrol Turbo	25 Prestige Petrol Turbo	25 Diesel	25 Diesel Turbo	25 Limousine Diesel Turbo	20 Safari Petrol + Familiale	25 S Pe Injer
	NUMBER	DESCRIPTION	∑ TEXTS	О ѕүмвс	829 A 5	J6T A 500	25/659	25/659	25/662	25/662	25/660	25/648	25/648	829 A 5	25/
	MA 000/1	General specification - vehicle identification		0	Х	X	X	Х	Х	X	X	X	X	Х	>
	MA 00/1	Jacking and towing points		0	Х	Х	X	Х	Х	×	×	×	×	Х	>
	MA 00/2	Protection of the electrical units	$\triangle$		Х	Х	X	Х	Х	X	X	×	×	Х	>
	MA 00/3	Recommended products			Х	Х	X	Х	Х	X	X	X	X	Х	>
	MA 00/4	Products to be used on the bodywork	Δ		X	X	X	Х	Х	X	X	×	X	Х	>
•															
		-			 -		a and a second								
							a da a da a a a								
							and the second secon								
							and the second sec								
							South a start of the								
							boo								
							normania (n. 1988). Ser orten in Samurinista	-							
							india, in another								
							and of the second of the secon								
( )															

				1
		·		1
25 Safari Diesel + Familiale	25 Safari Diesel Turbo	Ambulance		
25/660	25/648	829 A 5 or 25/660		
Х	Х	Х		
Х	Х	Х		
Х	Х	Х	1	
Х	Х	Х		
Х	Х	Х		
	25 Safari Diesel + Familiale 25/660 X X X X X	25 Safari Diesel Turbo25/66025/648XXXXXXXXXXXX	25 Safari Diesel + Familiale25 Safari Diesel TurboAmbulance25/66025/648829 A 5 or 25/660XXXXXXXXXXXXXXXXXXXXXXXX	25 Safari Diesel + Familiale25 Safari Diesel TurboAmbulance25/66025/648829 A 5 or 25/660XXXXXXXXXXXXXXXXXXXXXXXXXImage: second s

÷



CX20	CX22		CX25					
20 20RE 20 TRE	22TRS	RI GTI (AM84)	Pallas IE RI GTI (AM85)	GTI Turbo	Prestige	Prestige Turbo		
MP	NR	NG	NG	NK	NH	NP		
829 A 5	J6T A 500	M25/659	M25/659	M25/662	M25/659	M25/662		
4	н ў		5		5	_		
5	5	5	Automatic	5	Automatic	5		
	CX20 20 20RE 20 TRE MP 829 A 5 4 5	CX20CX222022TRS20RE20TRE20 TRENRMPNR829 A 5J6T A 5004555	CX20CX222022TRSRI GTI (AM84)20 TRENRNGMPNRNG829 A 5J6T A 500M25/659455	CX20CX222022TRSRI GTI (AM84)Pallas IE RI GTI (AM85)20 TRENRNGNGMPNRNGNG829 A 5J6T A 500M25/659M25/659455Automatic	$ \begin{array}{c} CX20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ TRE \end{array} \end{array} \begin{array}{c} RI \\ GTI (AM84) \\ CTI (AM85) \end{array} \begin{array}{c} Pallas IE \\ RI \\ GTI (AM85) \end{array} \end{array} \begin{array}{c} GTI Turbo \\ RI \\ GTI (AM85) \end{array} \end{array} \\ \begin{array}{c} MP \\ MP $	$ \begin{array}{c c} CX20 & CX22 \\ 20 \\ 20R \\ 20 RE \\ 20 TRE \end{array} \begin{array}{c} 22TRS \\ CTI (AM84) \\ CTI (AM84) \\ CTI (AM85) \end{array} \begin{array}{c} CTI Turbo \\ RI \\ GTI (AM85) \end{array} \end{array} \begin{array}{c} CTI Turbo \\ RI \\ GTI (AM85) \end{array} \end{array} \begin{array}{c} Prestige \\ Pres$		



А	2,845 m	3,095 m
В	4,650 m	4,900 m
С	1,360 m	1,375 m
D	. 0,160 m	



	F	
Е	11,70 m	12,50 m
F	12,50 m	13,40 m





-





	CX 25				
	Pallas D (AM84)	Pallas D (AM85)	RD Turbo TRD Turbo	Limousine Turbo	
	TRD	D — RD			
	ММ	ММ	NB	ND	
ł (Charles)	M25/660	M25/660	M2/648	M25/648	
₩ ا	5	4	5	5	





\*+ 8 mm

1,514\* 1,770

á



den en sen ander en ander en andere en a

.







1	AN
0	00/1











\*





 $\mathbf{0}$ 

1

PROTECTION OF THE ELECTRICAL UNITS

ş

MA

00/2



## PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT AN OPERATION ON THE VEHICLE

It is essential to avoid actions which may damage the electrical or the electronic equipment or create a short circuit (with subsequent risk of fire or accident).

## Battery:

- a) First disconnect cable clamp from the battery negative terminal, earthed, then from the positive post.
- b) Before tightening the negative clamp to the battery (the negative lead should be connected last), ensure that there is no short circuit (bright sparks or arcs).
  - Small sparks may occur due to the interior lamp (door open), door locking device, clock or components having remained in operation.
- c) Make sure that the terminals are properly connected. Clamps and terminals should be clean and correctly tightened.
- d) When recharging the battery, disconnect the two clamps first.
- e) Do not reverse the negative and positive clamps on the battery. (This could destroy the alternator diodes).

#### Fuses:

- a) Fit the correct type of fuses: use the fuses specified for the protected devices.
- b) Take the added accessories and the functions into consideration.

#### Charging circuit:

- ,a) Do not run the alternator unless it is connected to the battery. Do not disconnect the battery when the alternator is rotating.
- b) Ensure that the regulator is correctly earthed.
- c) Do not interchange the leads connected to the regulator, (charge detection warning lamp and excitation are specific).
- d) Do not connect a suppressor capacitor to the regulator without taking precautions or following proper instructions.
- e) Do not use an electric welding equipment on the vehicle without having first disconnected the alternator, the regulator and the battery (insulate the two terminals).
- f) Do not *« check »* the operation of an alternator by short circuiting the positive and ground terminals, which may destroy the diodes.

#### Starting the engine:

Do not use a booster or a 24-volt battery. Only use a correctly charged 12-volt battery (a higher capacity battery may be utilised). Otherwise, risk of deterioration of the ignition module or any other electronic control units. If the starter is needed for starting the engine, without running it, it is necessary to disconnect datum and flywheel sensors on the All Electronic Ignition, or the primary lead of the coil on any other type of ignition.

#### Ignition:

- a) Do not connect a suppressor capacitor to the negative terminal of the coil.
- b) Do not operate the module if its radiator is not connected to the earth.
- c) Fit the radio suppressor capacitors recommended by the factory.
- d) Never operate the ignition system while the HT circuit is open. Connect the HT leads to earth.
- e) Only use rev. counter having a HT sensor, (never puncture HT leads).

#### Q.I. bulb:

- a) Never replace a Q.I. bulb with the headlamp switched on. If the headlamps have been in use, allow them to cool down.
- b) Do not touch a Q.I. bulb with bare fingers. Any fingerprints must be cleaned with soapy water and the bulb dried with a dry lint-free cloth.

#### Checks :

- a) Preferably use a high resistance (> 10 k  $\Omega$  V) voltmeter or a battery-operated ohm-meter...
- b) Take care not to use instruments taking their power from the mains.

#### **Electronic components:**

- a) Avoid overvoltages due to a badly insulated charger, electric arcing or connections to the coil. The units such as regulator, ignition module, tachometer, windscreen wiper timer, flasher unit, clock, radio, oil gauge unit, door lock control unit, etc. comprising electronic components may be deteriorated.
- b) The electronic components should not be placed or operated under a temperature exceeding 80°C.
- c) Always switch off instruments or electronic control units before connecting or disconnecting them.



# I - CLEANING PRODUCTS

USE AND SPECIAL FEATURES	PRODUCT AND R.P. No.	SYMBOL	MARK	SUPPLIER
<ul> <li>Cold degreasing agent for mechanical units specially designed to be used into cleaning tanks</li> </ul>	SOLVANT P.L. ZC 9865832 U	D 1		R.P.D.
<ul> <li>Gelified liquid designed for stripping sealing surfaces and non metal gaskets</li> </ul>	DECAPLOC ZC 9865104 U		D 2	R.P.D.
<ul> <li>Aerosol can intended for unsticking and stripping non metal gaskets and sealing surfaces</li> </ul>	DECAPJOINT ZC 9875077 U	D 2		R.P.D.
<ul> <li>Carburettor cleaning product.</li> <li>To be used pure.</li> </ul>	Carburettor cleaner ZC 9862011 U		D 3	R.P.D

## II - SEALING COMPOUNDS

USE AND SPECIAL FEATURES	PRODUCT AND R.P. No.	SYMBOL	MARK	SUPPLIER
<ul> <li>Sealant for joint contact surfaces, screws and nuts.</li> <li>Clean with alcohol.</li> </ul>	CURTYLON		E 1	CURTY
<ul> <li>Hydrocarbon resistant product</li> </ul>	LOWAC	a	E 2	S.E.B.I.S.

2	MA 00/3		RECOMMENDE									
USE AND SPECIAL FEATURES		PRODUCT AND R.P. No.	SYMBOL	MARK	SUPPLIER							
– Lo rei	Locking and sealing agent for removable threaded assemblies.		ocking and sealing agent for movable threaded assemblies.		Locking and sealing agent for removable threaded assemblies.		<ul> <li>Locking and sealing agent for removable threaded assemblies.</li> </ul>		FRENETANCH ZC 9865034 U		Е З	
<ul> <li>Sealant for joint contact surfaces, locking of screws, fixing studs and nuts.</li> <li>Sealant for joint contact faces and unions.</li> </ul>		FORMETANCH ZC 9865036 U		E4								
– Be ins Sti an	Bearings, rings, bushes, liners, nserts, pulleys locking products. Strengthening agent for splined and pinned connections.		ngs, rings, bushes, liners, s, pulleys locking products. gthening agent for splined pinned connections.		E 5							
– Pro stu mi	oduct for locking uds, screws and nut um effectiveness.	and sealing ts with maxi-	FRENBLOC ZC 9865033 U	FRENBLOC ZC 9865033 U		R.P.D.						
– Se rep	alant for joint cont placement of traditio	tact faces in onal gaskets.	FORMAJOINT ZC 9865037 U	A	Е 7							
– Se Alı	aler for housings: uminium based		POXY. MATIC ALU ZC 9865565 U		E 8							
Me	etal based		POXY. MATIC ACIER ZC 9865559 U		E 9							
- Pa wi Se Re	ste for bonding d ndscreen, etc. alant for joint conta mains flexible after	loor linings, act surfaces. r drying.	AUTO JOINT NOIR <i>(black)</i> ZC 9865038 U		E 10							
– Se – Re	alant for joint conta mains flexible after	act surfaces. r drying.	AUTO JOINT BLEU <i>(blue)</i> ZC9865103 U		E 10							
— Air ling	intake casing heate g compound	er tubes sea-	Fire-proof mastic paste Réf. 1500 (COLLAFEU)		E 11	Ets BARTHELEMY						
– Str	engthener of fixed	assemblies	SCELMETAL		E 12	FRAMET						
III - PENETRATING OILS												
	USE AND SPECIAL FEATU	RES	PRODUCT AND R.P. No.	SYMBOL	MARK	SUPPLIER						
– Ae sei	rosol can for ruste zed assemblies	d parts and	DEGRIPPANT ZC9865303 U	A D	F 1	R.P.D.						

I

Full download:

# manualplace.com/download/citroen-cx-repair-manual-1988/ **RECOMMENDED PRODUCTS**

$\sim$
.≺
U.

#### **IV - GREASES AND LUBRICANTS** PRODUCT SYMBOL SUPPLIER AND MARK USE AND SPECIAL FEATURES R.P. No. R.P.D. 95 615 129 High adhesive grease: - Intended mainly for drive-shaft lubrication. G 1 MOLYDAL GRAISSE 1495 - Can be used for mechanisms working under difficult MOLYKOTE conditions (high pressures, splashed water). DOW-CORNING LONGTERM 2 Grease resisting high temperatures: G 2 **GRIPCOTT AF** MOLYDAL - For exhaust manifold ball-joints. Lubricant for parts working under difficult G 3 conditions: HI LUB-HTC FRAMET - Splashed water, high pressure and temperature. Grease resisting high temperatures: CURTY \* G 4 - To lubricate the threaded spark plugs fitted to the NO-BIND cylinder head. **Multifunctional lubricant:** M.O. G 5 TEROSON - Molybdenum disulfide-base product. **Multifunctional grease:** TOTAL C.F.R. TOTAL MULTIS G 6 - For routine works. PROBA. 270 **Special grease:** ALTEMP G 7 R.P.D. - Designed for anti-roll bar bearings. 79.01973.067 Animal grease: G 8 - Tallow. ESSO Special grease: G 9 R.P.D. NORVA - To be used for fitting the road wheel sensors of the 275 anti-locking brake system.

⋇