

# CITROËN

CARS CORPORATION

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NOTE: MR 391-7

MODELS: All "D" Models

SUBJECT: Pressure Regulator - Replacement of a pressure regulator DX 391-03B or NN 391-03A or DVN 391-03 (old model) by a pressure regulator with a pilot valve, DXN 391-03 (LHM) or ~~DX 391-03A~~ (LHS2).  
5409.763 X

1. Make up a list of parts to be ordered from the Parts Department; refer to the table indicating the part numbers for the particular model and year of the car.

## REMOVAL

2. Place the car in low position. Loosen the bleed screw of the pressure regulator. Disconnect the battery cables.
3. Remove: the left front suspension sphere  
the fuel pump
4. Remove the pressure regulator.
  - a. Remove the connecting pipe between the high pressure pump and the pressure regulator.
  - b. Uncouple the delivery tube from the three or four way union.
  - c. Remove the assembly of the pressure regulator, the rubber return tube (to the reservoir) and the delivery tube.
5. Remove the support of the pressure regulator.
6. Separate the main accumulator and check its inflated pressure.

ASSEMBLY

Remark: In case one must use a rigid line bearing a green reference mark on a car functioning with LHS2, it is absolutely imperative to clean the line with gasoline, then dry it with compressed air.

7. Replace the support bracket of the pressure regulator.
8. Replace the pressure regulator.
  - a. Attach the accumulator to the pressure regulator (use a new ring seal).
  - b. Connect the delivery tube to the pressure regulator, fasten it to the regulator with the help of the holding clamp. Tighten the union.
  - c. Cut to length the rubber return tube of the reservoir (see table).
  - d. Place the pressure regulator on top of the support bracket and connect the return tube to the reservoir.
  - e. Reset the pressure regulator on its support.
  - f. Connect the delivery tube to the three or four way union. Replace the pipe connecting the high pressure pump to the pressure regulator.
9. Replace the fuel pump and the suspension sphere.
10. Connect the cables to the terminals of the battery.
11. Place the circuits under pressure and check the sealing of the unions.
12. Bleed the front brakes. Check the level of fluid in the reservoir and refill, if necessary.



N # 197  
86-D

PART NAME &  
NUMBER

	FLUID	DX--DJ from 6/69	DX--DJ DS 19a 9/65-6/69	DS 19 HYDRAULIC 9/62-9/65	DS 19 MECHANICAL 1/63-9/65	ID 19 SINGLE PISTON PUMP UNTIL 6/69	ID 19 HYDRAULIC STEERING AFTER 6/69	ID 19 HYDRAULIC STEERING UNTIL 6/69	SW 19 UNTIL 6/69	SW 21 AFTER 6/69
CONNECTING TUBE PRESS. REG. → 2-3 OR 4 WAY UNION DXN 394-357A	GREEN	X	X RINSE				X			X
CONNECTING TUBE PRESS. REG. → 2-3 OR 4 WAY UNION DX 394-333A	RED			X					X	
CONNECTING TUBE PRESS. REG. → 2-3 OR 4 WAY UNION DX 394-334A	RED				X					
CONNECTING TUBE PRESS. REG. → 2-3 OR 4 WAY UNION DV 394-302A	RED					X		X		NON- HYDRAULIC STEERING
PRESS. REGULATOR DX 391-03A	RED		X	X	X	X		X	X	
PRESS. REGULATOR DXN 391-03	GREEN	X					X			X
SUPPORT BRACKET DX 392-52		X	X				X			X
SUPPORT BRACKET DS 391-22				X	X	X		X	X	
CONNECTING TUBE H.P.P. → PRESS. REG. DX 394-56A	GREEN	X	X RINSE				X			X
CONNECTING TUBE H.P.P. → PRESS. REG. DX 394-333	RED			X	X			X	X	



IN # 197 86-D PART NAME & NUMBER	FLUID	DX--DJ from 6/69	DX--DJ DS 19a 9/65-6/69	DS 19 HYDRAULIC 9/62-9/65	DS 19 MECHANICAL 1/63-9/65	ID 19 SINGLE PISTON PUMP UNTIL 6/69	ID 19 HYDRAULIC STEERING AFTER 6/69	ID 19 HYDRAULIC STEERING UNTIL 6/69	SW 19 UNTIL 6/69	SW 21 AFTER 6/69
CONNECTING TUBE H.P.P. → PRESS. REG. DV 394-303A	RED					X				
RUBBER RETURN TUBE LENGTH = 1070 mm DXN 394-378A	GREEN	HYD. GB 860 mm MECH. GB 320 mm					320 mm			945 mm
RUBBER RETURN TUBE DM 391-122A	RED					UNTIL 6/63 250 mm			UNTIL 6/63 500 mm	
RUBBER RETURN TUBE LENGTH = 1070 mm DX 394-378A	RED		HYD. GB MECH. GB 460mm	HYD. GB 860 mm	MECH. GB 235 mm	UNTIL 6/63 235 mm		235 mm	UNTIL 6/63 235 mm	



Screws and small rubber parts to be ordered in addition to the parts determined in the preceding table:

QUANTITY	NAME	FLUID	PART NO.
1	Column Screw		DX 392-189A
1	Column Screw		DX 392-190A
1	Screw		ZD 9372 800U
1	Screw		ZD 9028 300U
1	Screw		ZD 9048 300U
3	Screws		ZD 9345 100U
2	Screws		ZD 9225 100U
1	Sleeve seal - 7 piston H.P.P.	Green	ZD 9188 400U
1	Sleeve seal - 7 piston H.P.P.	Red	ZD 9158 500U
1	Sleeve seal - single piston H.P.P. (ID)	Green	ZD 9188 500U
1	Sleeve seal - single piston H.P.P. (ID)	Red	ZD 9158 600U
1	Sleeve seal - on the pressure regulator	Green	ZD 9188 500U
1	Sleeve seal - on the pressure regulator	Red	ZD 9158 600U
4	Sleeve seals	Green	ZD 9188 300U
4	Sleeve seals	Red	ZD 9158 400U
2	Elastic Rings		ZG 9620 810U
2	Collars		ZC 9614 011U

**Note:** Choose the sleeve seals in accordance with the liquid used in the hydraulic system of the car: LHM or LHS 2. Any interchanging will rapidly cause a leak in the circuit.

**Important Remark:** On the ID, when the main accumulator is calibrated at 40 bars, do not mount a DS accumulator calibrated at 65 bars.