

the pressure regulator cuts in and out too frequently. Engine switched off, the suspension sinks too rapidly, especially if the vehicle is not equipped with a anti-sink suspension (SC-MAC)- all models with Hydractive 2- from R.P.No.5928

HYDRACTIVE SUSPENSION SINCE RPO No. 05928

	INFO RAPID	XM
AFTER-SALES DEPARTMENT VEHICLE QUALITY	DEALER-BRANCH-AGENTS	6 No. 8

CONCERNED

All CITROEN XM Models - with Hydractive 2 - from R.P.No.5928.

FINDINGS

The pressure regulator cuts in and out too frequently. The suspension sinks too rapidly when the engine is switched off, especially if the vehicle is not equipped with anti-sink suspension (SC-MAC - CITROEN ANTI-SINK SYSTEM).

DIAGNOSIS

The seat "S" of one of the stiffness regulators is damaged and no longer forms a seal in the "Normal" suspension mode.

AFTER-SALES REMEDY

Change the defective stiffness regulator electrovalve.

Operating procedure:

1 Diagnosing a fault within the stiffness regulator electrovalves(s)

Connect the ELIT, select "Hydractive Suspension", then "Measure Parameters".

Put the vehicle on a ramp.

Exhaust all the residual pressure in the suspension circuit :

- switch on the ignition and lower the suspension using the manual control
- wait for the vehicle suspension to sink completely
- slacken the pressure regulator bleed screw

Front stiffness regulator :

- the front stiffness regulator electrovalve is mounted on the front subframe to the left of the height corrector, except on 24 Valve models, where it is mounted on the left hand side close to the ABS valve block
- remove the engine soundproofing undertray if fitted

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- disconnect the rubber return pipe on the electrovalve (clic clip) and plug the pipe
- connect a rilsan pipe fitted with a rubber sleeve, to the return union on the electrovalve
- insert the other end of the rilsan pipe into a clear container (empty bottle for example, to catch a possibly significant amount of fluid)
- tighten the pressure regulator bleed screw
- start the engine to pressurise the suspension circuit
- the vehicle being in the normal ride position, use the ELIT to confirm that the suspension is in the soft mode. There should be no escape of fluid
- IF THERE IS A SIGNIFICANT AND CONTINUOUS FLOW, THE ELECTROVALVE IS DEFECTIVE
- refit the electrical connector and return pipe to the electrovalve

REAR stiffness regulator :

- the rear stiffness regulator electrovalve is mounted on the subframe, above the anti-roll bar and to the left of the height corrector
- as the electrovalve is inaccessible, exhaust the pressure from the suspension circuit, then disconnect the rubber return pipe at its connection with the rilsan pipe at the left hand front corner of the rear subframe (between the subframe and the fuel tank, close to the 4-way union of the rear suspension fluid return piping)
- check the rear stiffness regulator electrovalve using the same procedure as described for checking the front

2 Remedy and replacement parts

Replace the stiffness regulator electrovalve with the defective seating "S".

The electrovalve is available from the Replacement Parts Division under reference 96 119 952.

Exhaust all the residual pressure in the suspension circuit.

Switch on the ignition and lower the suspension using the manual control.

Wait for the vehicle suspension to sink completely.

Slacken the pressure regulator bleed screw.

Remove the electrovalve.

Fit the new electrovalve and tighten to 3.5 m.daN.

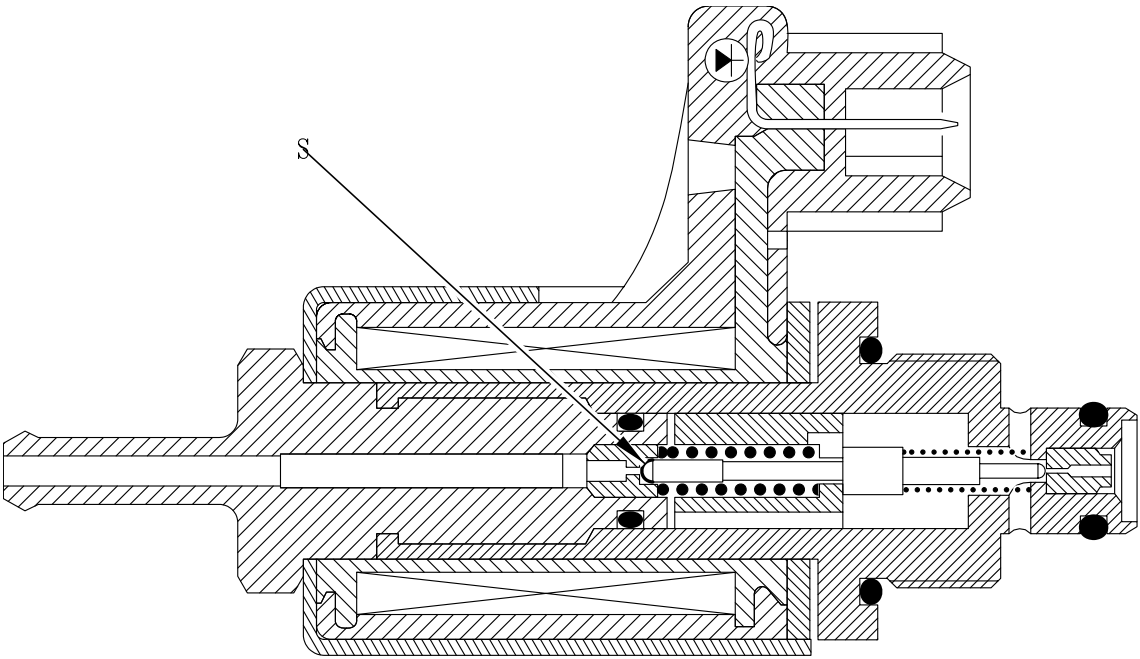
Having carried out the repair, use the ELIT to erase any possible fault codes recorded by the Hydractive suspension ecu.

Start the engine and allow it to run for approximately thirty seconds before tightening the pressure regulator bleed screw.

Labour code and invoicing time :

- labour code: front regulator: 2387 0910
- invoicing time: Petrol: 2.10hrs
- invoicing time: Diesel: 2.40hrs
- labour code: rear regulator: 2394 0910
- invoicing time: All types: 3.10hrs
- labour code: fault finding and diagnosis as described in the Info-Rapid: 1302 9999
- invoicing time: 1.00hrs

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- Fig. : 1 -