

OVERHAULING : FLOW DISTRIBUTOR

1 – RECOMMENDED TOOLS

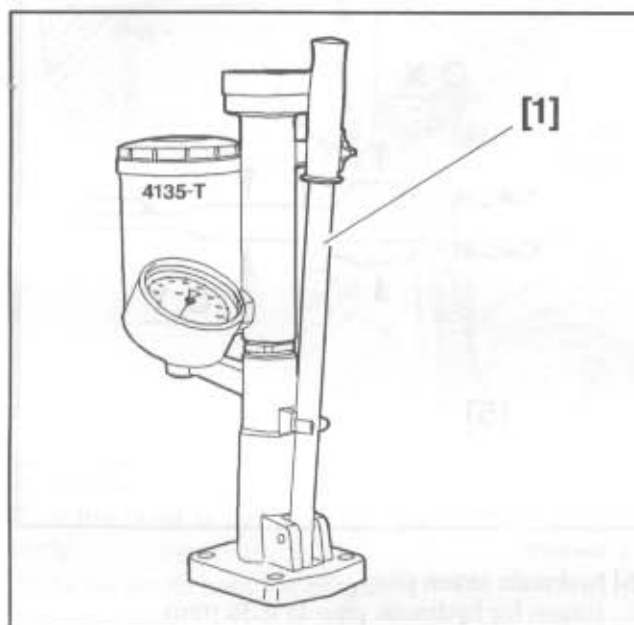


Fig : E5-P03XC

[1] hydraulic testing pump 4135-T, or hydraulic test bench 4034-T.

NOTE : Use tool [1] with plug "T" and pressure gauge Q = 250 bars from the tool kit [2].

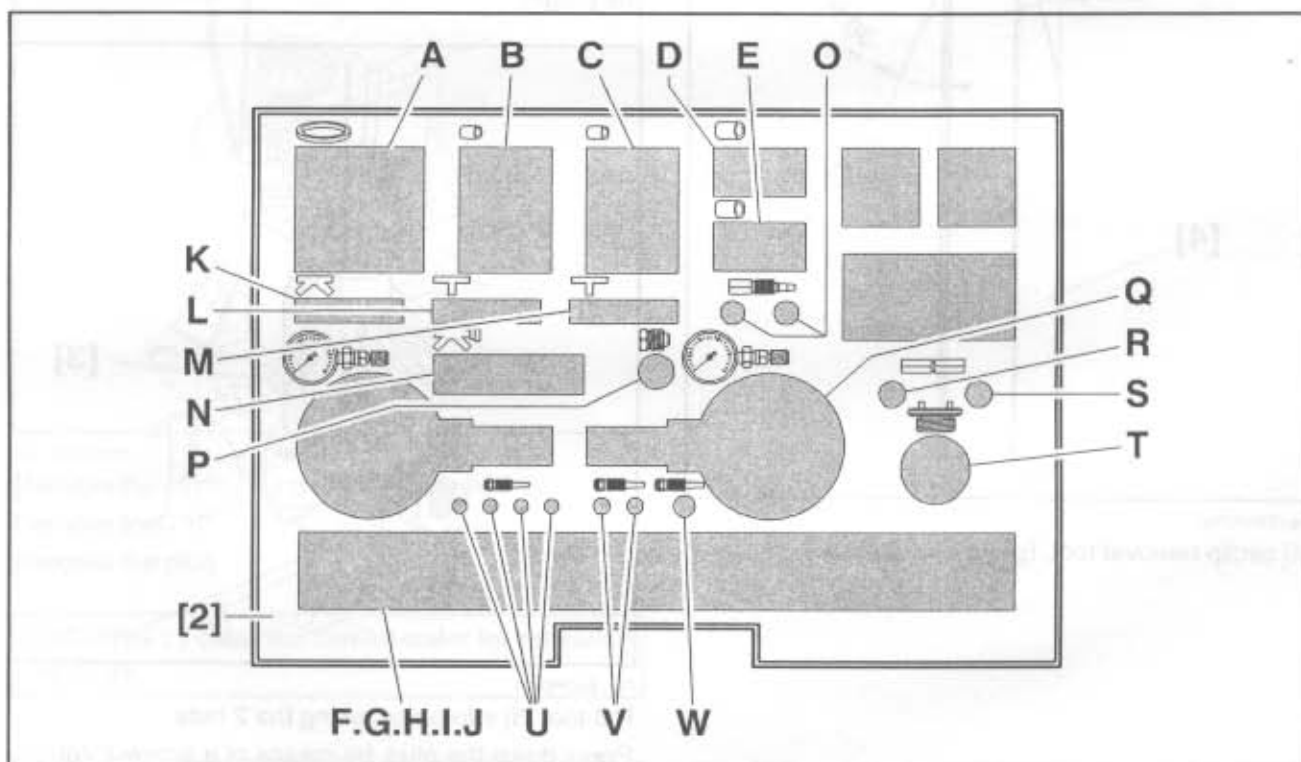


Fig : E5-P08DO

[2] hydraulic check tool kit 4146-T.

2 – TOOLS TO BE MADE

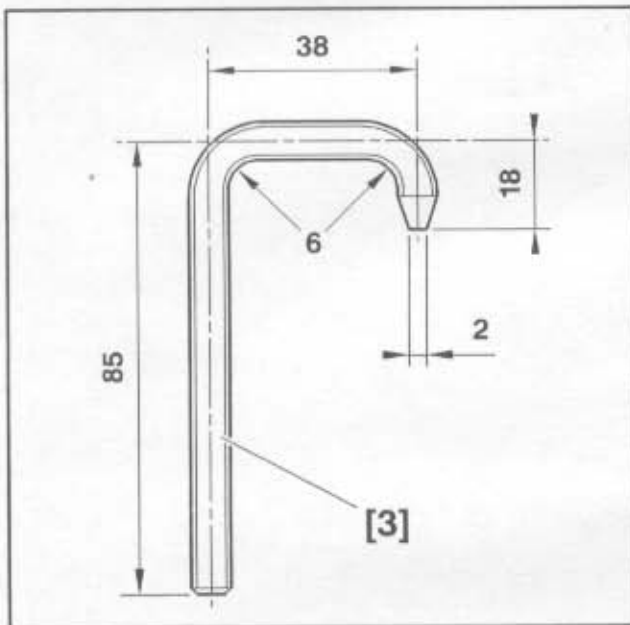


Fig : E5AP07MG

[3] threaded rod M7 x 100.

Tool [3] is used to keep the plug held down while removing the circlip.

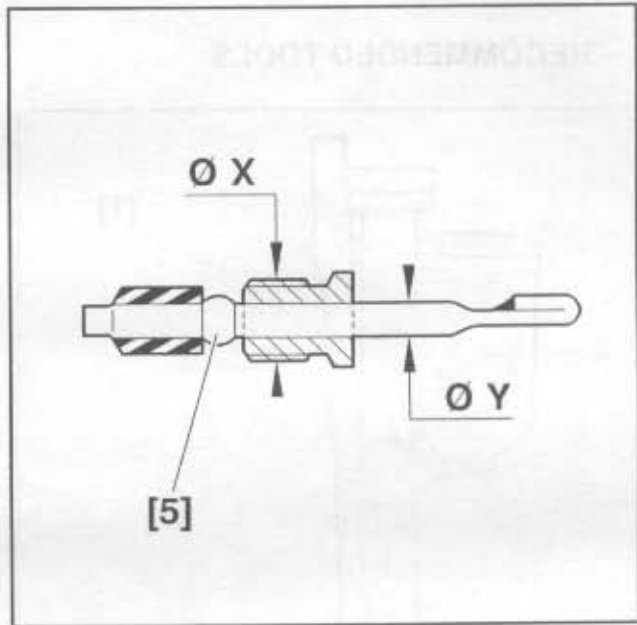


Fig : E5AP07PG

[5] hydraulic union plug
(union for hydraulic pipe Ø 6.35 mm).

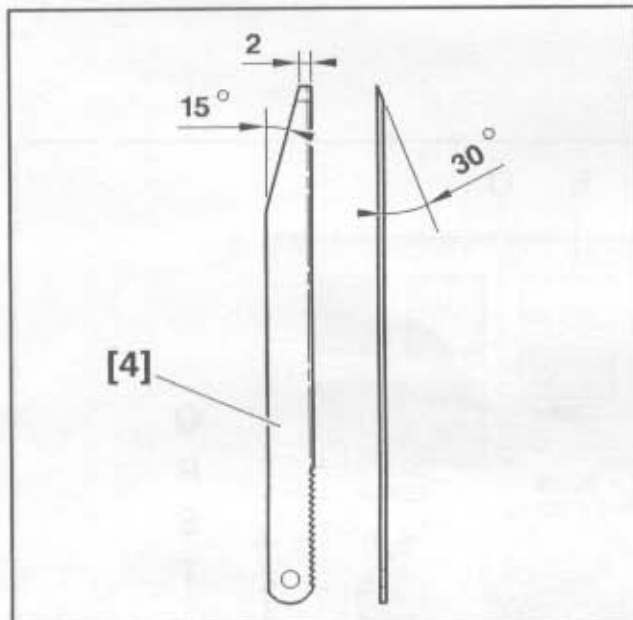


Fig : E5AP07NC

[4] circlip removal tool, (ground saw blade).

3 – DISMANTLING

Plug the orifices.

Clean the flow distributor (in particular the area around the plugs).

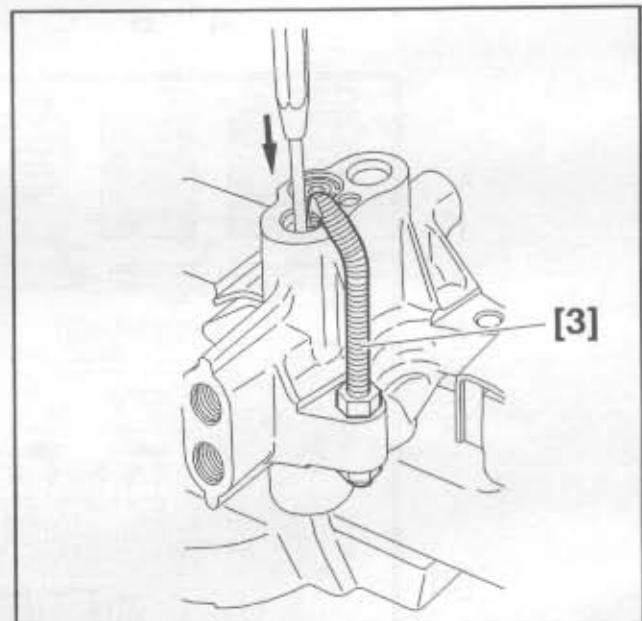


Fig : B3EP07QC

Put tool [3] into place, using the 2 nuts.
Press down the plug, by means of a screwdriver.
Hold the plug in place, by means of tool [3].

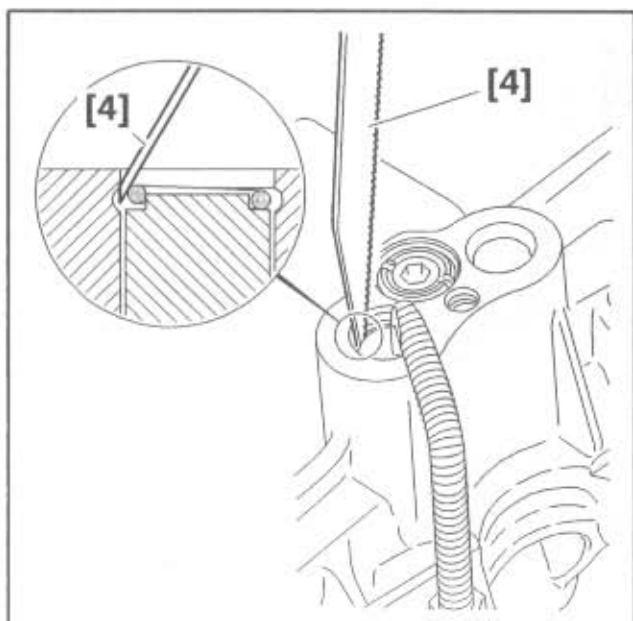


Fig : B3EP088C

Turn the point of the tool [4] towards the distributor body.

Slide the circlip onto the plug.

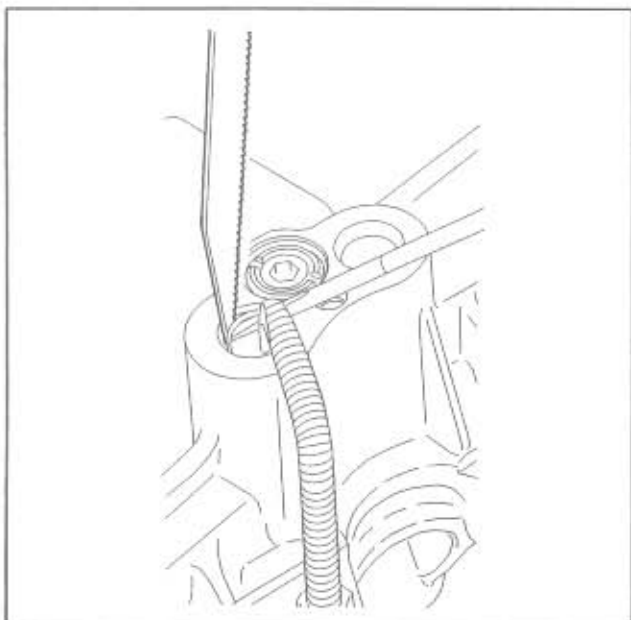


Fig : B3EP089C

Remove the circlip using a small screwdriver.

Remove tool [3].

Remove the plug.

WARNING : Follow the correct order for removing the plugs.

IMPERATIVE : Ensure the springs are in their correct positions.

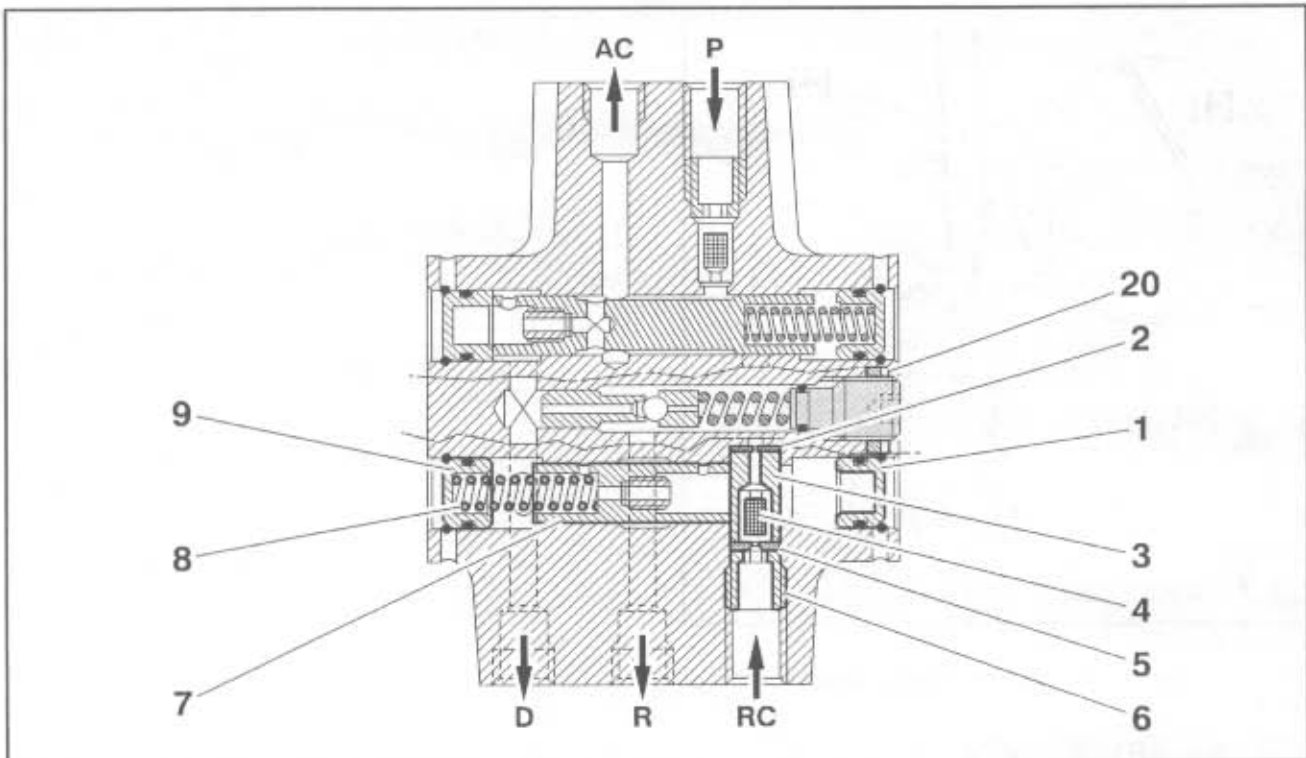


Fig : B3EP07RD

Remove plug (1).

Place a cloth over the plug and blow compressed air through the orifice RC (regulator return).

Remove plug (9).

Place a cloth over the plug and blow compressed air through the orifice D (steering, Ø 4,5 mm).

Remove :

- the spring (8)
- the regulation valve (7)

NOTE : Filters (4) and (14) in orifices (RC) and (P) are held in place by sleeves (6) and (13).

There are 2 possible types of sleeve :

- threaded with internal hex
- pushed in with a smooth internal diameter

Only the filters held in place by the threaded sleeves can be removed.

Remove :

- the sleeve (3) (6)
- the thick jet (5)
- the stop (3) with the filter (4)
- the thin jet (2)

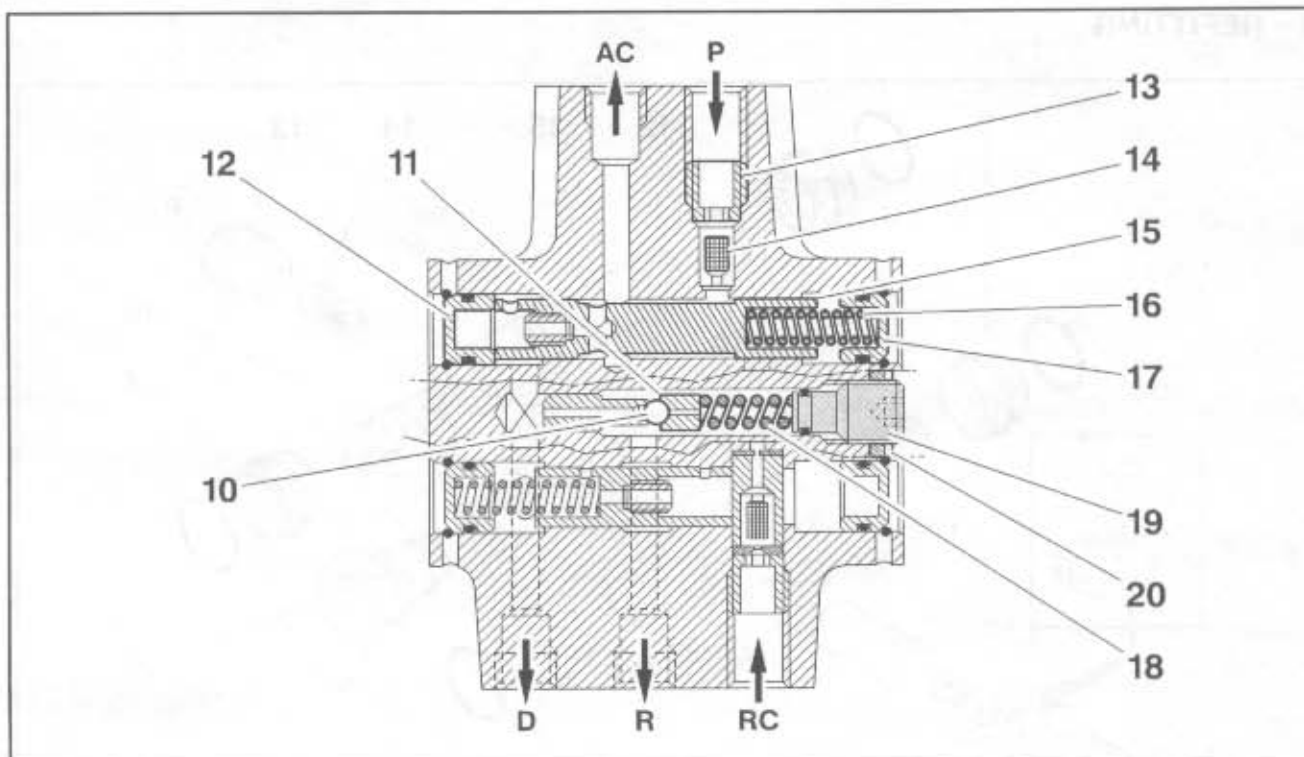


Fig : B3EP07SD

Remove :

- the sleeve (3) (13)
- the filter (14)
- the plug (17) (press on the opposite plug to remove)
- the spring (16)
- the distribution valve (15)
- the plug (12)

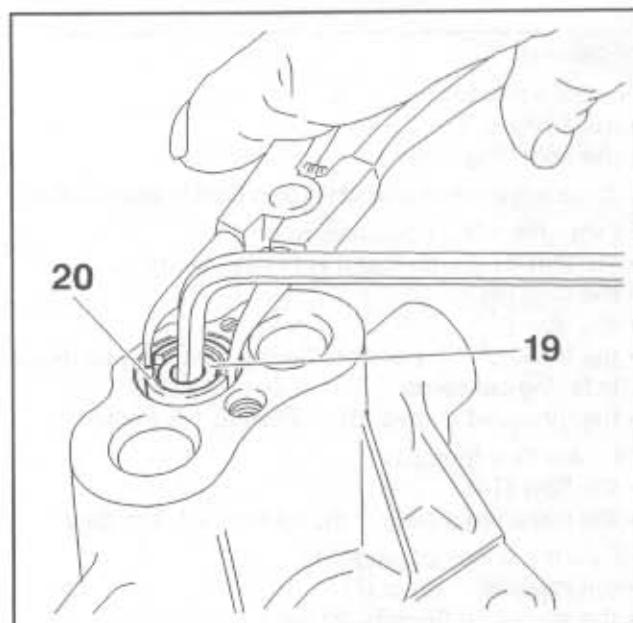


Fig : B3EP07TC

Using a pair of thin-nosed pliers :

- loosen the sleeve (20)
- remove the adjusting screw (19)

Remove :

- the spring (18)
- the spacer (11)
- the ball bearing (10)

IMPERATIVE : Clean the parts before reassembly, without removing the jets which are fitted in the valves.

4 – REFITTING

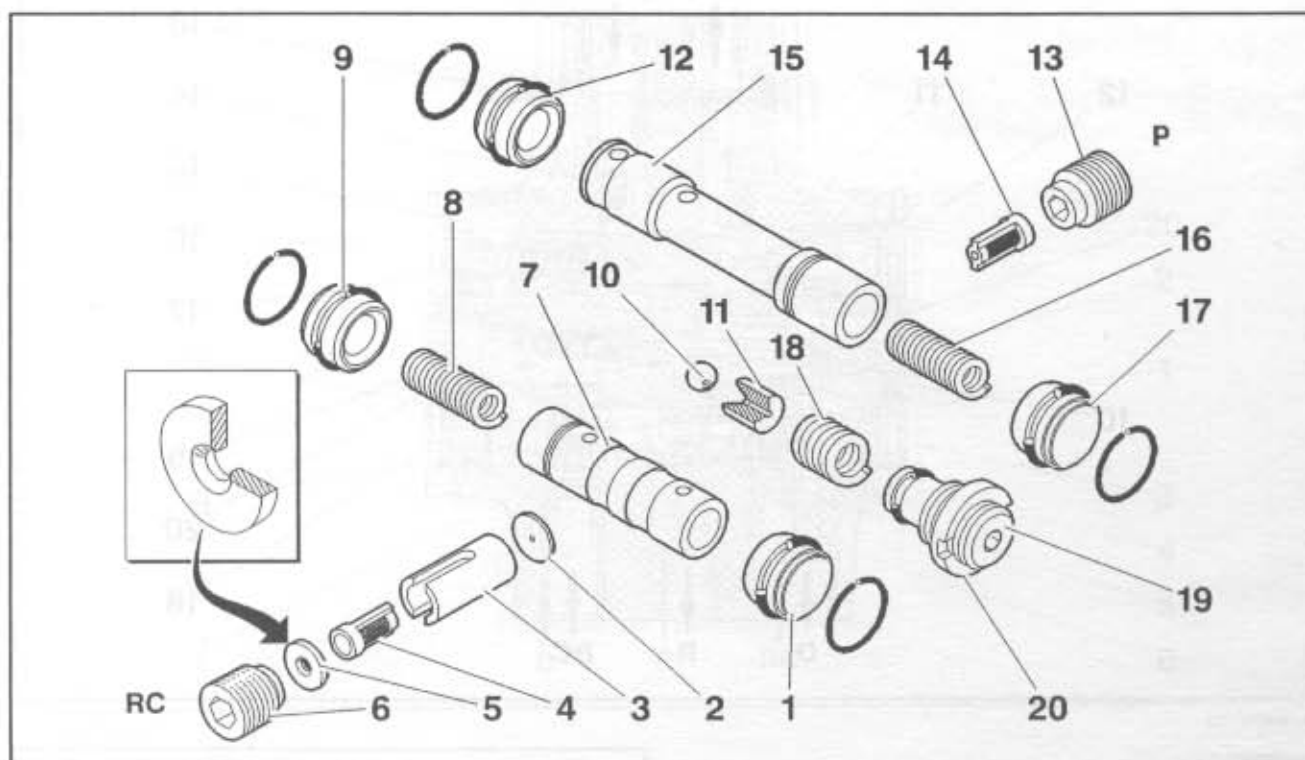


Fig : B3EP07UD

Fit new seals to :

- the 4 plugs
- the adjusting screw

Lubricate the parts with LHM plus fluid before refitting.

Fit via orifice RC (regulator return) :

- the thin jet (2), so that it is resting on its seat
- the stop (3)
- the filter (4)
- the thick jet (5), position the tapered side so that it is facing outwards
- the threaded sleeve (6), tighten to 1.3 m.daN

Fit via orifice (pump) :

- the filter (14)
- the threaded sleeve (13), tighten to 1.3 m.daN

Fit via the orifice of plug (9) :

- the regulation valve (7)
- the spring (8) (length: 30 mm)

Refit the plugs (9), (1) and (12) :

- put tool [3] into place, using the 2 nuts
- press down the plug, by means of a screwdriver
- hold the plug in place, by means of tool [3]
- fit a new circlip, using a small screwdriver

Fit via the orifice of plug (17) :

- the distribution valve (15)
- the spring (16) (length: 24 mm)
- the plug (17)

Fit :

- the ball bearing (10), so that it is resting on its seat
- the spacer (11)
- the spring (18) (length: 17 mm)
- the adjusting screw (19) together with its sleeve (20) (lightly screw against the spring)

5 – CHECKING-ADJUSTING

5.1 – Adjusting the pressure control

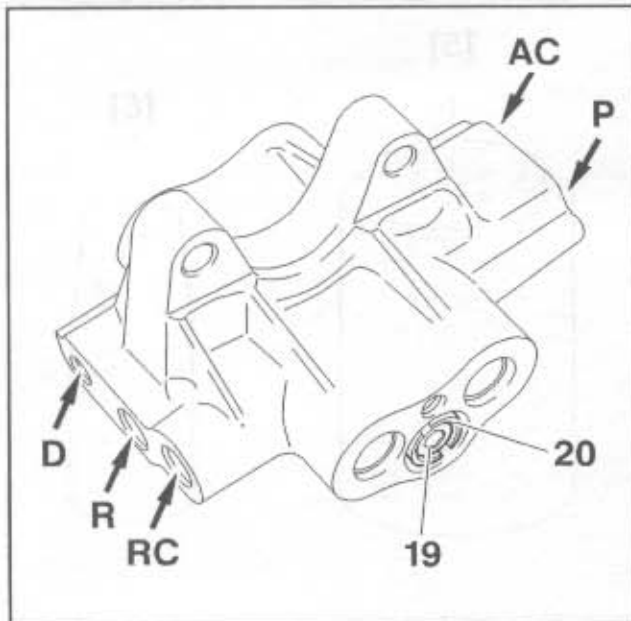


Fig : B3EP07VC

Fit the plugs [5] to the following orifices :

- AC (regulator supply)
- P (pump)
- RC (regulator return)

Equip tool [1] with the 250 bars pressure gauge.

Connect tool [1] to orifice "D" of the distributor.

Orifice "R" remains open to allow the fluid to flow freely (reservoir return).

Shut the bleed tap of pump [1].

Operate the pump with a steady action.

The pressure rises then stabilises.

The rating pressure is adjusted using the screw (19).

The fluid flows out through orifice R.

Adjustment values :

Vehicle	Calibration pressure
XANTIA (all types)	140 ± 5 bars

Turn on the hydraulic bench tap to release the pressure.

Tighten the sleeve nut (20) using a pair of thin-nosed pliers, without altering the position of the adjusting screw (19), tighten to 1,5 m.daN.

5.2 – Checking the seals

Fit a plug [5] to the orifice R.

Shut the bleed tap of pump [1].

Pressurize : 160 bars.

There must be no leak from the plugs or the adjusting screw.

Turn on the hydraulic bench tap to release the pressure.

Remove the flow distributor.