

3.4.1 - Idle setting with a mixture-adjusting screw

The adjusting screw meters the amount of mixture of a strength predetermined by the metering effect of the idle jet and the air corrector, and therefore on screwing in the mixture screw, idle fuel delivery decreases and vice-versa.

In figure 18 the throttle slide 2 is shown in the idling position, adjusted by the idle speed screw (4). In this position the vacuum present downstream of the throttle valve causes mixture to be delivered via the hole (3), regulated by the tapered tip of the mixture adjusting screw.

Mixture formed from fuel metered through the idle jet (6) and air metered by the calibrated passage (1) further mixes with air regulated by the throttle slide opening.

The idle mixture adjusting-screw is always located downstream of the throttle.

Check that the throttle cable has about 1 mm of free play with the slide closed.

Always adjust the idle setting with the engine fully warmed up. Proceed as follows:

Screw in the idle speed screw (4) to get a slightly higher speed than normal (about 1200 rpm for four-stroke engines and about 1400 rpm for two-stroke engines); then screw the mixture adjusting screw (5) in or out until you obtain the most even running. Then unscrew the throttle-stop screw (4) until you get the desired idle speed again.

To obtain the best engine running, it is worth finally rechecking by carefully readjusting the idle mixture screw (5).

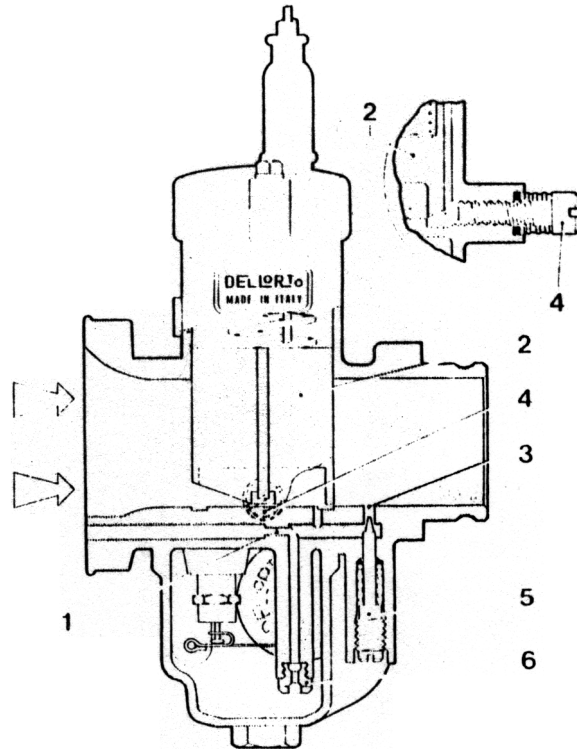


fig. 18

3.4.2 - Idle Setting with an air-adjusting screw

An idle circuit with an air adjusting-screw adjusts the amount of air required to produce the mixture that the idle circuit has to supply during idling.

The air adjusting screw varies the mixture strength delivered by the idle circuit; screwing in results in a richer idle mixture and vice-versa.

In figure 19 the throttle slide (2) is shown in the idle position adjusted by the idle-speed screw (4). In this position, the vacuum existing downstream of the throttle valve causes mixture to be delivered the hole (3).

Mixture formed from fuel metered through the idle jet (5) and air regulated by the idle air screw (1) further mixes with air metered by the throttle slide opening.

The idle air-adjusting screw is usually located upstream of the throttle slide.

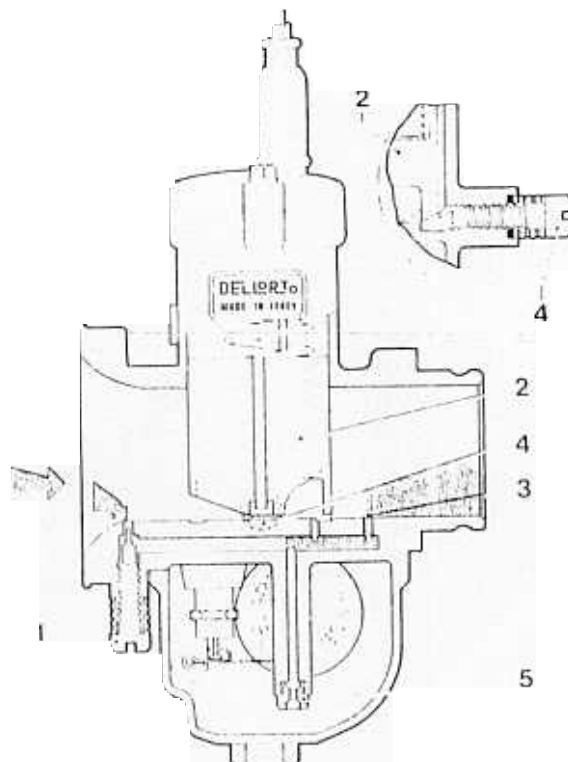


fig 19