

# DESCRIPTION OF THE DUAL DOWNDRAFT CARBURETOR ZENITH 32 NDIX

## General

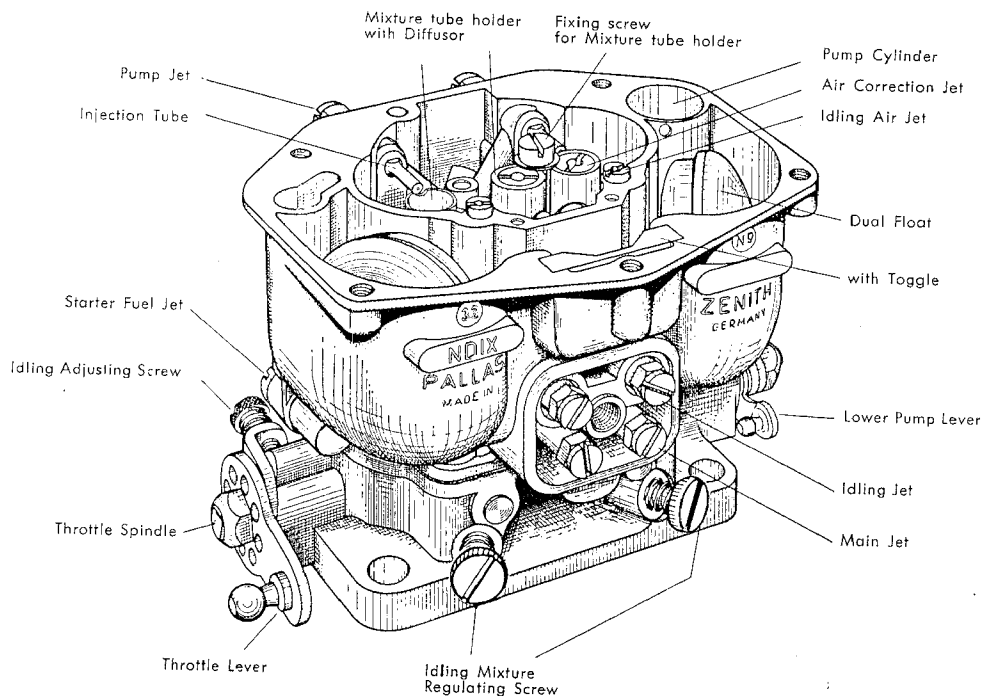
The Dual Downdraft Carburetor Zenith 32 NDIX has two barrels with a 32 mm (1.17") intake. It is provided with a central air intake and encased to make it dust- and water-proof.

## Description

The carburetor consists of three main components: Throttle butterfly valve assembly, float chamber and carburetor cover.

The cast iron **throttle valve assembly** is attached with its flange to the intake manifold of the engine. Above the flange across the two barrels is the **throttle shaft** with the two **throttle butterfly valves**. Attached to the ends of the throttle shaft are the throttle lever, a throttle stop and the lower pump lever. The **throttle lever** allows to control the position of the butterfly valves and thus the quantity of the sucked-in fuel air mixture. The idling **adjusting screw** is mounted on the **throttle stop**. The lower **pump lever** actuates the **pump rod** for the accelerator pump. On the throttle assembly there are also two **idling mixture regulating screws**.

The die-cast **float housing** combines the two mixing chambers and the dual float chamber. It contains all parts necessary for the preparation of the fuel air mixture for normal operation and idling, the float assembly and the accelerator pump. The main body and the throttle body are bolted on to the carburetor housing with the aid of a gasket and need normally not be removed.



Zenith Carburetor Type NDIX - Cover removed

Fig. 1