

ZENITH 29-SERIES CARBURETORS

OPERATION AND SERVICE

The Zenith 29 Series is a downdraft carburetor with a concentric float bowl design. This design assists in the proper metering of air and fuel to the engine, without flooding, when the vehicle is operated on extreme angles. It is a "sealed" and

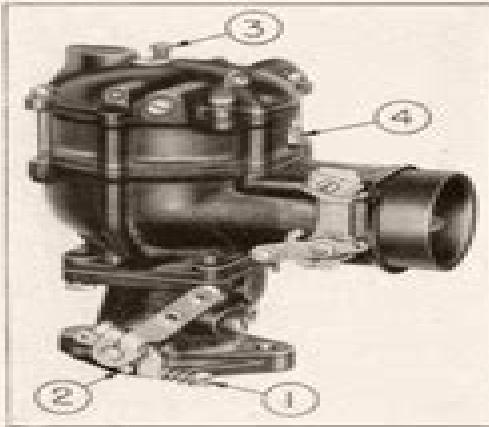


Figure 1

"balanced" carburetor in that all air for fuel bowl chamber ventilation and idling must come through the air cleaner. Air cleaner restrictions have a minimum influence on fuel-air ratio. A double venturi is employed to aid in the complete vaporization of the fuel. The power jet and accelerating pump systems are operated by engine vacuum and are completely enclosed and protected from dirt. These auxiliary jet systems are to provide the extra fuel needed for certain operations.

INSTRUCTIONS FOR ADJUSTING

ADJUSTMENTS:

1. The throttle stop screw (1), Fig. 1, should be screwed in (clockwise) against the stop pin (2) to hold the throttle just slightly open. Adjust the throttle stop screw to obtain the desired idling speed of the engine.
2. The idling adjusting screw (3) should be from 1 to $1\frac{1}{2}$ full turns off its seat. Adjust the idling adjusting screw to obtain smooth idling when engine has become thoroughly warmed up. Turning the screw in (clockwise) cuts off air, making the idling mixture richer; while turning it out (counter-clockwise) admits more air, making the mixture leaner.

If it becomes necessary to turn the screw in to less than $1\frac{1}{2}$ turn off the seat to obtain

good idling of the engine, it would indicate either an air leak or a restriction in the flow of fuel for idling. Look for air leaks at the manifold flange; at carburetor throttle body to intake gasket, and at carburetor bowl to cover gasket, due to loosened assembly screws or damaged gaskets. A badly worn throttle shaft will produce sufficient air leakage to affect the idling mixture.

Dirt or other foreign matter in the idling jet calibration will restrict the flow of fuel for idling and affect the mixture. If the idling jet becomes completely clogged, it will be impossible to run the engine at idling speed regardless of adjustment of the idling adjustment screw.

3. Some models of this series are supplied with a main jet adjustment which is installed in place of plug (4), Fig. 1. Turning the needle clockwise cuts off fuel making the medium and high speed mixtures leaner. The needle should be adjusted to give highest manifold vacuum (or highest R. P. M. on a tachometer) for a set-throttle position. (This is usually about $1\frac{1}{2}$ full turns (counter-clockwise) from the seat.) If engine is equipped with speed governor, set the throttle to hold the engine speed just below the governed speed while adjusting the main jet adjustment. If adjustment is set too lean, the engine will lack power and the fuel economy also will be poor. If set too rich, the engine will be sluggish and the fuel economy poor.

STARTING:

Open the throttle about one-quarter. Pull the choke control all the way. Step on the starter. As soon as the engine starts, push the choke control in about one-third of the way and as the engine warms up, continue to push it in gradually until the choke valve is wide open.

Note: If the engine, after running satisfactorily, suddenly ceases to perform properly, do not change the carburetor adjustment. Look over the intake manifold, carburetor flange gaskets, throttle, choke, and fuel connections. Make sure that throttle and choke open and close correctly and that fuel is reaching the carburetor in a steady stream. Do not change carburetor adjustments until other causes of trouble, including ignition, have been investigated. Changes in adjustment should be necessary only with change in fuel or climate.

MODEL IDENTIFICATION

TYPE—DOWNDRAFT:

STYLE 29—Throttle and choke shafts parallel with priming plug located under air intake.

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web jun 1 2023 aisi 4145 exhibits excellent strength toughness and wear resistance as a low alloy steel grade the minimum yield strength of aisi 4145 is 89 ksi while the ultimate tensile strength is between 125 140 ksi depending on the heat treatment conditions

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web as compared to 4140 the 4145 mod grade has higher levels of chromium and molybdenum which will provide much deeper hardening into the steel after austenitizing quenching and tempering this alloy should not be confused with aisi 4145 as the chemical limits for the modified version are much higher

