

Canada's Capital A's Tip Sheet
Carburetor Replacement and Calibration

1. Distributor - set the point gap to .020" on highest part of cam lobe.
2. Set timing - crank engine to locate dimple in timing gear while pressing in on timing pin.
 ** Reinstall timing pin **

Install Carburetor

3. Mount carburetor using a gasket, two 3/4" x 5/16-18 hex bolts and lock washers. Connect accelerator linkage (add drop of oil to ends) and ensure the throttle arm has full travel. Connect choke rod (flat washer, spring, sleeve on rod). Connect fuel line and check for leaks.

Initial Adjustments

4. Set idle stop screw (on throttle arm) so that the throttle is slightly open.
5. Screw in the idle mixture screw until it just stops then back out 1 turn.

Setting Adjusting Screws

6. Turn on gas shut-off valve and start engine, leave both levers up, for slow idle.
7. Turn idle stop screw CCW to reduce engine speed to slow idle (it may be slightly rough).
8. Slowly turn the idle mixture screw in (CW) until the engine just begins to stall, then slightly back out until the engine regains stable slow idle. (Engine restart may be required)
 - Back out the idle stop screw a little more to further reduce idle speed.
 - Slowly turn the idle mixture screw out (CCW) until the engine just begins to run rough. Now screw in to find a spot midpoint of the two stall points. With the engine idle very slow, this range could be very narrow. This should result in a very slow smooth idle. (Excessive air leakage between the throttle shaft and the carb body could cause rough or galloping slow idle)

NOTE If very slow idle cannot be achieved with the idle screw all out (not touching the casting), the carb throttle plate must be repositioned so it closes the bore completely. Then readjust the idle stop screw in so it opens the plate slightly. Reinstall carb and reset.

9. Increase the idle speed slightly so the engine will not stall when braking.

Check Operation

10. Check for smooth operation of the manual throttle lever (right). Check operation of the foot pedal. Place drops of oil at the two oil holes in the throttle supports behind the engine.
11. Set the timing lever (left) to about 9:00 o'clock position and the throttle lever up, the engine should have a slightly rough, galloping idle. Increase throttle to smooth the operation. Both levers up, the engine should return to slow sweet idle.
12. Road test ... Happy Motoring!

Safety

13. For safe parking, always close the fuel shut-off and let engine stall out to drain carb and avoid leakage in the garage.
14. To reduce leakage due to the original type float valve not seating properly, order a new style valve with a Viton or neoprene seal (A9564C).
15. If the engine stalls when stopping quickly, the float is set too high. A thicker, or additional gasket may be required under the float valve. Float level is set to 1" from top casting surface to float band.