

## FUEL SYSTEM

### PILOT SCREW ADJUSTMENT

Turn the pilot screw clockwise until it seats lightly and then back it out to the specification.

**INITIAL OPENING: 2-5/8 turns out**

#### CAUTION

- *Damage to the pilot screw seat will occur if the pilot screw is tightened against the seat.*

Warm the engine up to operating temperature. Stop the engine and connect a tachometer. Start the engine and adjust the idle speed to  $1,300 \pm 100 \text{ min}^{-1}$  (rpm) with the throttle stop screw.

Check that the engine speed increases smoothly by turning the throttle grip. Turn the air screw until the highest idle speed is obtained. Reset the idle speed to  $1,300 \pm 100 \text{ min}^{-1}$  (rpm) with the throttle stop screw.

### TEMPERATURE AND ALTITUDE ADJUSTMENT

Use the chart on the right to determine if carburetor adjustments are necessary because of changes in temperature and altitude.

Draw a line straight up from your temperature to your altitude. Where those lines intersect, draw a horizontal line straight to the left. Where that line meets the left edge of the chart is your correction factor.

To adjust the main jet size, multiply the standard main jet size by your correction factor. If the correction factor is 0.95, or below, raise the jet needle clip by one position and turn in the pilot screw 1/2 turn. If the correction factor is above 0.95, adjustments to the jet needle and pilot screw are not necessary.

#### For example:

At a temperature of  $30^\circ\text{C}$  ( $86^\circ\text{F}$ ) and an altitude of 3,000 m (9840 ft), carburetor recommendations are as follows:

- **Main jet**  
 $125 \times 0.92 = 115$
- **Jet needle**  
3rd groove from top minus 1 = 2nd groove from top
- **Pilot screw opening**  
 $2\text{-}1/4 - 1/2 = 1\text{-}3/4$  turns out

Standard Carburetor Setting:

( ) : U model

Mainjet	# 165 (# 135)
Jet needle setting	3rd groove
Pilot screw opening	2-5/8 turns out

