

# Carburetor Line-up and Adjusting Values

## USA Version

|                                                            |                       |                             |             |                  |                           |                |
|------------------------------------------------------------|-----------------------|-----------------------------|-------------|------------------|---------------------------|----------------|
| Model                                                      | 230/8, 250/8M 114     |                             | 250/8-M 130 |                  | 250/8-M 130               |                |
| Model year                                                 | 1968/1971             |                             |             |                  | 1972                      |                |
| Carburetor designation                                     | 2 x Zenith 35/40 INAT |                             |             |                  | 2 x Zenith 32/40 INAT     |                |
| Carburetor stage                                           | 1st stage             | 2nd stage                   | 1st stage   | 2nd stage        | 1st stage                 | 2nd stage      |
| Air horn "K"                                               | 24                    | 28                          | 24          | 28               | 20                        | 28             |
| Main jet "Gg"                                              | x 115                 | x 125 <sup>1)</sup>         | x 115       | x 125            | x 100                     | x 130          |
| Air correction jet "a"                                     | 100                   | 120 <sup>2)</sup>           | 90          | 110              | 180                       | 110            |
| Mixing tube "s"                                            | 4 S                   | 4 N                         | 4 S         | 4 N              | mm Ø<br>1.7               | 4 N            |
| Idle fuel nozzle "g"                                       | 45                    | -                           | 45          | -                | 45                        | -              |
| Transition fuel nozzle                                     | -                     | 60                          | -           | 80               | -                         | 70             |
| Idle air bore                                              | mm dia.               | 1.3                         | -           | 1.3              | -                         | 1.4            |
| Transition air bore                                        | -                     | 1.0                         | -           | 1.0              | -                         | 1.0            |
| Injection volume                                           | cc/stroke             | 0.7-1.0                     | -           | 0.7-1.0          | -                         | 0.7-1.0        |
| Injection pipe                                             |                       | 0.5<br>calibr.              | -           | 0.5<br>calibr.   | -                         | 0.5<br>calibr. |
| Begin of injection at<br>throttle valve opening            |                       | at once                     |             | at once          |                           | at once        |
| Float needle valve                                         |                       | 2.0                         |             |                  |                           |                |
| Float weight                                               | g                     | 8.5                         |             |                  |                           |                |
| Float adjustment                                           | mm                    | 21 - 23                     |             |                  | 18 - 20 <sup>3)</sup>     |                |
| Seal for float<br>needle valve                             | mm                    | 1.0                         |             |                  |                           |                |
| Fuel return valve<br>adjustment                            | l/min                 | 2000                        |             |                  |                           |                |
| Float chamber - venting valve<br>stroke (engine shut off)  | mm                    | reference dimension 2,8-0.3 |             |                  | -                         |                |
| Choke gap adjustment                                       | mm                    | 2,0-2.2                     |             |                  | 2,0-2.2 <sup>4)</sup>     |                |
| Cold starting speed (measured<br>at operating temperature) | l/min                 | 2500 - 2700                 |             |                  | 2500 - 2700 <sup>4)</sup> |                |
| Automatic starting device<br>cover-preload                 |                       | on mark                     |             |                  |                           |                |
| Starter cover designation                                  |                       | both 24                     |             | front 24 rear 18 |                           | both 24        |

1) Model 230/8 = x 120

2) Model 230/8 = 130

3) With float needle without ball 21-23 mm.

4) Adjusted to mixing ratio by manufacturer. Try not to change.